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30iso4217:USDaeis:planxbrli:sharesxbrli:pureiso4217:USDxbrli:sharesTable of Contentsâ€‹â€‹â€‹UNITED STATESSECURITIES AND EXCHANGE COMMISSIONWashington,Â D.C. 20549FORMÂ 10-Qâ€‹â€‹â˜’QUARTERLY REPORT PURSUANT TO SECTIONÂ 13 OR 15(d)Â OF THE SECURITIES EXCHANGE ACT OF 1934â€‹For the quarterly period ended September 30, 2024orâ˜TRANSITION REPORT PURSUANT TO SECTIONÂ 13 OR 15(d)Â OF THE SECURITIES EXCHANGE ACT OF 1934â€‹For the transition period from Â Â Â Â Â Â Â Â Â to Â Â Â Â Â Â Â Â Â â€‹Commission File Number: 000-26966ADVANCED ENERGY INDUSTRIES,Â INC.(Exact name of registrant as specified in its charter)â€‹Delaware84-0846841(State or other jurisdiction of incorporation or organization)(I.R.S. Employer Identification No.)â€‹â€‹1595 Wynkoop Street, Suite 800, Denver, Colorado80202(Address of principal executive offices)(Zip Code)â€‹(970) 407-6626(Registrantâ€™s telephone number, including area code) Securities registered pursuant to SectionÂ 12(b)Â of the Act:â€‹Title of each classTrading Symbol(s)Name of each exchange on which registeredCommon Stock, $0.001Â par valueAEISNasdaq Global Select Marketâ€‹Indicate by check mark whether the registrant: (1)Â has filed all reports required to be filed by SectionÂ 13 or 15(d)Â of the Securities Exchange Act of 1934 during the preceding 12Â months (or for such shorter period that the registrant was required to file such reports), and (2)Â has been subject to such filing requirements for the past 90Â days. YesÂ Ã¾ NoÂ â—»Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to RuleÂ 405 of RegulationÂ S-T (Â§232.405 of this chapter) during the preceding 12Â months (or for such shorter period that the registrant was required to submit such files). YesÂ Ã¾ NoÂ â—»Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of â€œlarge accelerated filer,â€ â€œaccelerated filer,â€ â€œsmaller reporting company,â€ and â€œemerging growth companyâ€ in RuleÂ 12b-2 of the Exchange Act.Large accelerated filerÂ Ã¾Accelerated filerÂ â—»Non-accelerated filerÂ â—»Smaller reporting companyÂ â˜Emerging growth companyÂ â˜ If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to SectionÂ 13(a)Â of the Exchange Act. â—»Indicate by check mark whether the registrant is a shell company (as defined in RuleÂ 12b-2 of the Exchange Act). YesÂ â˜ NoÂ Ã¾As of October 28, 2024, there were 37,673,067 shares of the registrantâ€™s common stock, par value $0.001 per share, outstanding.â€‹â€‹â€‹ Table of ContentsADVANCED ENERGY INDUSTRIES,Â INC.FORMÂ 10-QTABLE OF CONTENTSâ€‹â€‹â€‹â€‹â€‹â€‹â€‹PART I FINANCIAL INFORMATIONâ€‹â€‹â€‹â€‹ITEM 1.UNAUDITED CONSOLIDATED FINANCIAL STATEMENTSâ€‹3â€‹â€‹â€‹â€‹Consolidated Balance Sheets3â€‹â€‹â€‹â€‹Consolidated Statements of Operations4â€‹â€‹â€‹â€‹Consolidated Statements of Comprehensive Income (Loss)5â€‹â€‹â€‹â€‹Consolidated Statements of Stockholdersâ€™ Equity6â€‹â€‹â€‹â€‹Consolidated Statements of Cash Flows7â€‹â€‹â€‹â€‹Notes to Consolidated Financial Statements8â€‹â€‹â€‹ITEM 2.MANAGEMENTâ€™S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS25â€‹â€‹â€‹ITEM 3.QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK42â€‹â€‹â€‹ITEM 4.CONTROLS AND PROCEDURES43â€‹â€‹â€‹â€‹PART II OTHER INFORMATIONâ€‹â€‹â€‹â€‹ITEM 1.LEGAL PROCEEDINGS43â€‹â€‹â€‹ITEM 1A.RISK FACTORS43â€‹â€‹â€‹ITEM 2.UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS44â€‹â€‹â€‹ITEM 3.DEFAULTS UPON SENIOR SECURITIES 44â€‹â€‹â€‹ITEM 4.MINE SAFETY DISCLOSURES44â€‹â€‹â€‹ITEM 5.OTHER INFORMATION 44â€‹â€‹â€‹ITEM 6.EXHIBITS45â€‹â€‹â€‹â€‹SIGNATURES46â€‹â€‹â€‹â€‹â€‹â€‹2 Table of ContentsPARTÂ I FINANCIAL INFORMATIONITEMÂ 1.Â Â Â Â Â Â Â Â Â UNAUDITED CONSOLIDATED FINANCIAL STATEMENTSADVANCED ENERGY INDUSTRIES,Â INC.Unaudited Consolidated Balance Sheets(In thousands, except per share amounts)â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â â€‹DecemberÂ 31,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023â€‹ASSETSÂ â€‹Â Â Â â€‹Â Â Â Current assets:Â â€‹Â Â Â â€‹Â Â Â Cash and cash equivalentsâ€‹$ 657,288â€‹$ 1,044,556â€‹Accounts receivable, netâ€‹Â 259,399â€‹Â 282,430â€‹Inventoriesâ€‹Â 377,740â€‹Â 336,137â€‹Other current assetsâ€‹â€‹ 51,281â€‹â€‹ 48,771â€‹Total current assetsâ€‹Â 1,345,708â€‹Â 1,711,894â€‹Property and equipment, netâ€‹Â 181,875â€‹Â 167,665â€‹Operating lease right-of-use assetsâ€‹â€‹ 86,003â€‹â€‹ 95,432â€‹Other assetsâ€‹Â 134,948â€‹Â 136,448â€‹Intangible assets, netâ€‹Â 145,290â€‹Â 161,478â€‹Goodwillâ€‹Â 299,036â€‹Â 283,840â€‹TOTAL ASSETSâ€‹$ 2,192,860â€‹$ 2,556,757â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹LIABILITIES AND STOCKHOLDERSâ€™ EQUITYâ€‹Â â€‹â€‹Â â€‹â€‹Current liabilities:â€‹Â â€‹â€‹Â â€‹â€‹Accounts payableâ€‹$ 133,006â€‹$ 141,850â€‹Accrued payroll and employee benefitsâ€‹Â 62,743â€‹Â 73,595â€‹Other accrued expensesâ€‹Â 66,048â€‹Â 66,662â€‹Customer deposits and otherâ€‹Â 11,351â€‹Â 15,997â€‹Current portion of long-term debtâ€‹â€‹ â€”â€‹â€‹ 20,000â€‹Current portion of operating lease liabilitiesâ€‹â€‹ 18,360â€‹â€‹ 17,744â€‹Total current liabilitiesâ€‹Â 291,508â€‹Â 335,848â€‹Long-term debt, netâ€‹â€‹ 564,000â€‹â€‹ 895,679â€‹Operating lease liabilitiesâ€‹â€‹ 80,264â€‹â€‹ 89,330â€‹Pension benefitsâ€‹â€‹ 50,374â€‹â€‹ 49,135â€‹Other long-term liabilitiesâ€‹â€‹ 42,322â€‹â€‹ 42,583â€‹Total liabilitiesâ€‹Â 1,028,468â€‹Â 1,412,575â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Commitments and contingencies (Note 15)â€‹Â â€‹â€‹Â â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Stockholders' equity:â€‹Â â€‹â€‹Â â€‹â€‹Preferred stock, $0.001 par value, 1,000 shares authorized, none issued and outstandingâ€‹Â â€”â€‹Â â€”â€‹Common stock, $0.001 par value, 70,000 shares authorized; 37,671 and 37,318 issued and outstanding at September 30, 2024 and December 31, 2023, respectivelyâ€‹Â 38â€‹Â 37â€‹Additional paid-in capitalâ€‹Â 180,529â€‹Â 148,300â€‹Accumulated other comprehensive incomeâ€‹Â 2,089â€‹Â 6,114â€‹Retained earningsâ€‹Â 981,736â€‹Â 989,731â€‹Total stockholders' equityâ€‹Â 1,164,392â€‹Â 1,144,182â€‹TOTAL LIABILITIES AND STOCKHOLDERS' EQUITYâ€‹$ 2,192,860â€‹$ 2,556,757â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹The accompanying notes are an integral part of these unaudited consolidated financial statements.â€‹3 Table of ContentsADVANCED ENERGY INDUSTRIES,Â INC.Unaudited Consolidated Statements of Operations(In thousands, except per share amounts)â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024â€‹2023Â Â Â Â 2024Â Â Â Â 2023â€‹Revenue, netâ€‹$ 374,217â€‹$ 409,991â€‹$ 1,066,639â€‹$ 1,250,539â€‹Cost of revenueâ€‹Â 240,149â€‹Â 262,650â€‹Â 692,001â€‹Â 801,007â€‹Gross profitâ€‹Â 134,068â€‹Â 147,341â€‹Â 374,638â€‹Â 449,532â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Operating expenses:â€‹Â â€‹â€‹Â â€‹â€‹Â â€‹â€‹Â â€‹â€‹Research and developmentâ€‹Â 53,561â€‹Â 50,391â€‹Â 155,732â€‹Â 153,414â€‹Selling, general, and administrativeâ€‹Â 56,237â€‹Â 55,131â€‹Â 166,374â€‹Â 166,102â€‹Amortization of intangible assetsâ€‹Â 6,772â€‹Â 7,049â€‹Â 20,519â€‹Â 21,186â€‹Restructuring, asset impairments, and other chargesâ€‹Â 28,546â€‹Â 4,709â€‹Â 29,416â€‹Â 8,906â€‹Total operating expensesâ€‹Â 145,116â€‹Â 117,280â€‹Â 372,041â€‹Â 349,608â€‹Operating income (loss)â€‹Â (11,048)â€‹Â 30,061â€‹Â 2,597â€‹Â 99,924â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Interest incomeâ€‹â€‹ 11,018â€‹â€‹ 6,396â€‹â€‹ 35,782â€‹â€‹ 14,282â€‹Interest expenseâ€‹â€‹ (6,378)â€‹â€‹ (3,780)â€‹â€‹ (20,461)â€‹â€‹ (9,368)â€‹Other income (expense), netâ€‹Â (8,139)â€‹Â 1,848â€‹Â (6,122)â€‹Â 1,425â€‹Income (loss) from continuing operations, before income taxâ€‹Â (14,547)â€‹Â 34,525â€‹Â 11,796â€‹Â 106,263â€‹Income tax provision (benefit)â€‹Â (400)â€‹Â 874â€‹Â 4,552â€‹Â 13,405â€‹Income (loss) from continuing operationsâ€‹Â (14,147)â€‹Â 33,651â€‹Â 7,244â€‹Â 92,858â€‹Loss from discontinued operations, net of income taxâ€‹Â (758)â€‹Â (930)â€‹Â (1,904)â€‹Â (2,076)â€‹Net income (loss)â€‹$ (14,905)â€‹$ 32,721â€‹$ 5,340â€‹$ 90,782â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Basic weighted-average common shares outstandingâ€‹Â 37,532â€‹Â 37,575â€‹Â 37,455â€‹Â 37,541â€‹Diluted weighted-average common shares outstandingâ€‹Â 37,532â€‹Â 37,854â€‹Â 37,785â€‹Â 37,842â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Earnings (loss) per share:â€‹Â Â Â â€‹Â Â Â â€‹Â â€‹â€‹Â â€‹â€‹Continuing operations:â€‹Â Â Â â€‹Â Â Â â€‹Â â€‹â€‹Â â€‹â€‹Basic earnings per shareâ€‹$ (0.38)â€‹$ 0.90â€‹$ 0.19â€‹$ 2.47â€‹Diluted earnings per shareâ€‹$ (0.38)â€‹$ 0.89â€‹$ 0.19â€‹$ 2.45â€‹Discontinued operations:â€‹Â â€‹â€‹Â â€‹â€‹Â â€‹â€‹Â â€‹â€‹Basic loss per shareâ€‹$ (0.02)â€‹$ (0.02)â€‹$ (0.05)â€‹$ (0.06)â€‹Diluted loss per shareâ€‹$ (0.02)â€‹$ (0.02)â€‹$ (0.05)â€‹$ (0.05)â€‹Net income (loss):â€‹Â â€‹â€‹Â â€‹â€‹Â â€‹â€‹Â â€‹â€‹Basic earnings (loss) per shareâ€‹$ (0.40)â€‹$ 0.87â€‹$ 0.14â€‹$ 2.42â€‹Diluted earnings (loss) per shareâ€‹$ (0.40)â€‹$ 0.86â€‹$ 0.14â€‹$ 2.40â€‹â€‹The accompanying notes are an integral part of these unaudited consolidated financial statements.â€‹4 Table of ContentsADVANCED ENERGY INDUSTRIES,Â INC.Unaudited Consolidated Statements of Comprehensive Income (Loss)(In thousands)â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023â€‹Net income (loss)â€‹$ (14,905)â€‹$ 32,721â€‹$ 5,340â€‹$ 90,782â€‹OtherÂ comprehensiveÂ income (loss),Â netÂ ofÂ incomeÂ taxâ€‹Â â€‹â€‹Â Â Â â€‹Â â€‹â€‹Â Â Â â€‹Foreign currency translationâ€‹Â 12,401â€‹Â (5,069)â€‹Â 3,251â€‹Â (6,798)â€‹Change in fair value of cash flow hedgesâ€‹Â (1,738)â€‹Â (1,822)â€‹Â (5,474)â€‹Â (3,840)â€‹Defined employee benefit planâ€‹Â (1,751)â€‹Â â€”â€‹Â (1,802)â€‹Â (292)â€‹Comprehensive income (loss)â€‹$ (5,993)â€‹$ 25,830â€‹$ 1,315â€‹$ 79,852â€‹â€‹The accompanying notes are an integral part of these unaudited consolidated financial statements.â€‹5 Table of ContentsADVANCED ENERGY INDUSTRIES,Â INC.Unaudited Consolidated Statements of Stockholders' Equity(In thousands, except per share amounts)â€‹CommonÂ Stockâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€inâ€‹Comprehensiveâ€‹Retainedâ€‹Stockholders'â€‹â€‹Sharesâ€‹Amountâ€‹Capitalâ€‹Income (Loss)â€‹Earningsâ€‹EquityBalances, DecemberÂ 31,Â 2022Â Â Â Â 37,429â€‹$ 37â€‹$ 134,640â€‹$ 16,320â€‹$ 915,270â€‹$ 1,066,267Stock issued from equity plansâ€‹ 100â€‹â€‹ â€”â€‹â€‹ (1,991)â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (1,991)Stock-based compensationâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ 6,543â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 6,543Dividends declared ($0.10 per share)â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (3,814)â€‹â€‹ (3,814)Other comprehensive lossâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (2,013)â€‹â€‹ â€”â€‹â€‹ (2,013)Net incomeâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 30,921â€‹â€‹ 30,921Balances, MarchÂ 31,Â 2023â€‹ 37,529â€‹â€‹ 37â€‹â€‹ 139,192â€‹â€‹ 14,307â€‹â€‹ 942,377â€‹â€‹ 1,095,913Stock issued from equity plansâ€‹ 121â€‹â€‹ 1â€‹â€‹ 606â€‹â€‹ â€”â€‹â€‹ â€”â€‹Â 607Stock-based compensationâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ 7,423â€‹â€‹ â€”â€‹â€‹ â€”â€‹Â 7,423Dividends declared ($0.10 per share)â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (3,778)â€‹â€‹ (3,778)Other comprehensive lossâ€‹ â€”â€‹â€‹ â€”â€‹â€‹

â€”â€‹â€‹ (2,026)â€‹â€‹ â€”â€‹Â (2,026)Net incomeâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 27,140â€‹Â 27,140Balances, JuneÂ 30,Â 2023â€‹ 37,650â€‹â€‹ 38â€‹â€‹ 147,221â€‹â€‹ 12,281â€‹â€‹ 965,739â€‹â€‹ 1,125,279Stock issued from equity plansâ€‹ 8â€‹â€‹ â€”â€‹â€‹ 130â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 130Stock-based compensationâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ 7,506â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 7,506Share repurchasesâ€‹ (378)â€‹â€‹ (1)â€‹â€‹ (1,530)â€‹â€‹ â€”â€‹â€‹ (38,469)â€‹â€‹ (40,000)Dividends declared ($0.10 per share)â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (3,830)â€‹â€‹ (3,830)Other comprehensive lossâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (6,891)â€‹â€‹ â€”â€‹â€‹ (6,891)Warrants and note hedges, netâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ (40,135)â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (40,135)Tax impact of convertible notes and note hedgesâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ 26,091â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 26,091Net incomeâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 32,721â€‹â€‹ 32,721Balances, SeptemberÂ 30,Â 2023â€‹ 37,280â€‹$ 37â€‹$ 139,283â€‹$ 5,390â€‹$ 956,161â€‹$ 1,100,871â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Balances, DecemberÂ 31,Â 2023â€‹ 37,318â€‹$ 37â€‹$ 148,300â€‹$ 6,114â€‹$ 989,731â€‹$ 1,144,182Stock issued from equity plansâ€‹ 116â€‹â€‹ â€”â€‹â€‹ (5,327)â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (5,327)Stock-based compensationâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ 10,591â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 10,591Dividends declared ($0.10 per share)â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (3,810)â€‹â€‹ (3,810)Other comprehensive lossâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (7,969)â€‹â€‹ â€”â€‹â€‹ (7,969)Deferred compensationâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ 79â€‹â€‹ â€”â€‹â€‹ (79)â€‹â€‹ â€”Net incomeâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 5,216â€‹â€‹ 5,216Balances, MarchÂ 31,Â 2024â€‹ 37,434â€‹â€‹ 37â€‹â€‹ 153,643â€‹â€‹ (1,855)â€‹â€‹ 991,058â€‹â€‹ 1,142,883Stock issued from equity plansâ€‹ 93â€‹â€‹ â€”â€‹â€‹ (173)â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (173)Stock issuance (Note 2. Acquisition)â€‹ 144â€‹â€‹ 1â€‹â€‹ 4,463â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 4,464Stock-based compensationâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ 10,720â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 10,720Dividends declared ($0.10 per share)â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (3,848)â€‹â€‹ (3,848)Other comprehensive lossâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (4,968)â€‹â€‹ â€”â€‹â€‹ (4,968)Deferred compensationâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ 1,033â€‹â€‹ â€”â€‹â€‹ (64)â€‹â€‹ 969Net incomeâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 15,029â€‹â€‹ 15,029Balances, JuneÂ 30,Â 2024â€‹ 37,671â€‹â€‹ 38â€‹â€‹ 169,686â€‹â€‹ (6,823)â€‹â€‹ 1,002,175â€‹â€‹ 1,165,076Stock issued from equity plansâ€‹ 19â€‹â€‹ â€”â€‹â€‹ (529)â€‹â€‹ â€”â€‹â€‹ â€”â€‹Â (529)Stock-based compensationâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ 11,481â€‹â€‹ â€”â€‹â€‹ â€”â€‹Â 11,481Share repurchasesâ€‹ (19)â€‹â€‹ â€”â€‹â€‹ (89)â€‹â€‹ â€”â€‹â€‹ (1,681)â€‹â€‹ (1,770)Dividends declared ($0.10 per share)â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (3,871)â€‹Â (3,871)Other comprehensive incomeâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 8,912â€‹â€‹ â€”â€‹Â 8,912Deferred compensationâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ (20)â€‹â€‹ â€”â€‹â€‹ 18â€‹â€‹ (2)Net lossâ€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ (14,905)â€‹Â (14,905)Balances, SeptemberÂ 30,Â 2024â€‹ 37,671â€‹$ 38â€‹$ 180,529â€‹$ 2,089â€‹$ 981,736â€‹$ 1,164,392â€‹The accompanying notes are an integral part of these unaudited consolidated financial statements.6 Table of ContentsADVANCED ENERGY INDUSTRIES,Â INC.Unaudited Consolidated Statements of Cash Flows(In thousands)â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Â Â Â Â 2024Â Â Â Â 2023CASH FLOWS FROM OPERATING ACTIVITIES:Â â€‹Â Â Â â€‹Â Â Net incomeâ€‹$ 5,340â€‹$ 90,782Less: loss from discontinued operations, net of income taxâ€‹Â (1,904)â€‹Â (2,076)Income from continuing operations, net of income taxâ€‹Â 7,244â€‹Â 92,858Adjustments to reconcile net income to net cash from operating activities:â€‹Â Â Â â€‹Â Â Â Depreciation and amortizationâ€‹Â 51,824â€‹Â 49,764Stock-based compensationâ€‹Â 34,303â€‹Â 22,813Amortization and write off of debt issuance costs and debt discountâ€‹â€‹ 3,036â€‹â€‹ 378Deferred income tax benefitâ€‹Â 305â€‹Â (996)Otherâ€‹â€‹ 1,041â€‹â€‹ 394Changes in operating assets and liabilities, net of assets acquiredâ€‹Â â€‹â€‹Â â€‹Accounts receivable, netâ€‹Â 23,604â€‹Â 35,135Inventoriesâ€‹Â (41,187)â€‹Â 9,025Other assetsâ€‹Â 576â€‹Â 4,121Accounts payableâ€‹Â (8,778)â€‹Â (26,203)Other liabilities and accrued expensesâ€‹Â (21,718)â€‹Â (59,049)Net cash from operating activities from continuing operationsâ€‹Â 50,250â€‹Â 128,240Net cash from operating activities from discontinued operationsâ€‹Â (2,191)â€‹Â (3,307)Net cash from operating activitiesâ€‹Â 48,059â€‹Â 124,933â€‹â€‹â€‹â€‹â€‹â€‹â€‹CASH FLOWS FROM INVESTING ACTIVITIES:â€‹Â Â Â â€‹Â Â Â Purchases of long-term investmentsâ€‹â€‹ (2,698)â€‹â€‹ (3,447)Purchases of property and equipmentâ€‹Â (44,045)â€‹Â (46,782)Acquisitions, net of cash acquiredâ€‹â€‹ (13,762)â€‹â€‹ â€”Net cash from investing activitiesâ€‹Â (60,505)â€‹Â (50,229)â€‹â€‹â€‹â€‹â€‹â€‹â€‹CASH FLOWS FROM FINANCING ACTIVITIES:â€‹Â Â Â â€‹Â Â Â Proceeds from long-term borrowingsâ€‹â€‹ â€”â€‹â€‹ 575,000Payment of fees for long-term borrowingsâ€‹â€‹ (105)â€‹â€‹ (12,985)Payments on long-term borrowingsâ€‹â€‹ (355,000)â€‹â€‹ (15,000)Dividend paymentsâ€‹â€‹ (11,529)â€‹â€‹ (11,422)Payment for purchase of note hedgesâ€‹â€‹ â€”â€‹â€‹ (115,000)Proceeds from sale of warrantsâ€‹â€‹ â€”â€‹â€‹ 74,865Purchase and retirement of common stockâ€‹â€‹ (1,770)â€‹â€‹ (40,000)Net payments related to stock-based awardsâ€‹Â (6,029)â€‹Â (1,254)Net cash from financing activitiesâ€‹Â (374,433)â€‹Â 454,204â€‹â€‹â€‹â€‹â€‹â€‹â€‹EFFECT OF CURRENCY TRANSLATION ON CASH AND CASH EQUIVALENTSâ€‹Â (389)â€‹Â (1,795)â€‹â€‹â€‹â€‹â€‹â€‹â€‹NET CHANGE IN CASH AND CASH EQUIVALENTSâ€‹Â (387,268)â€‹Â 527,113CASH AND CASH EQUIVALENTS, beginning of periodâ€‹Â 1,044,556â€‹Â 458,818CASH AND CASH EQUIVALENTS, end of periodâ€‹$ 657,288â€‹$ 985,931â€‹The accompanying notes are an integral part of these unaudited consolidated financial statements.â€‹7 Table of ContentsADVANCED ENERGY INDUSTRIES,Â INC.NOTESÂ TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS(In thousands, except per share data)â€‹NOTEÂ 1.Â Â Â Â Â DESCRIPTION OF BUSINESS AND BASIS OF PRESENTATIONAdvanced Energy Industries, Inc., a Delaware corporation, and its consolidated subsidiaries (â€œwe,â€ â€œus,â€ â€œour,â€ â€œAdvanced Energy,â€ or the â€œCompanyâ€) provides highly engineered, critical, precision power conversion, measurement, and control solutions to our global customers. We design, manufacture, sell and support precision power products that transform, refine, and modify the raw electrical power coming from either the utility or the building facility and convert it into various types of highly controllable, usable power that is predictable, repeatable, and customizable to meet the necessary requirements for powering a wide range of complex equipment. Many of our products enable customers to reduce or optimize their energy consumption through increased power conversion efficiency, power density, power coupling, and process control across a wide range of applications.In management's opinion, the accompanying unaudited consolidated financial statements contain all adjustments, consisting of normal, recurring adjustments, necessary to present fairly Advanced Energyâ€™s financial position as of September 30, 2024, and the results of our operations and cash flows for the three and nine months ended SeptemberÂ 30,Â 2024 and 2023.The unaudited consolidated financial statements included herein have been prepared pursuant to the rulesÂ and regulations of the U.S. Securities and Exchange Commission (â€œSECâ€). Certain information and footnote disclosures normally included in financial statements prepared in accordance with accounting principles generally accepted in the United States of America (â€œU.S.Â GAAPâ€) have been omitted pursuant to such rulesÂ and regulations. These unaudited consolidated financial statements should be read in conjunction with the audited consolidated financial statements and notesÂ thereto contained in our Annual Report on FormÂ 10-K for the year ended DecemberÂ 31,Â 2023 and other financial information filed with the SEC.Use of Estimates in the Preparation of the Consolidated Financial Statements The preparation of our consolidated financial statements in conformity with U.S. GAAP requires us to make estimates, assumptions, and judgments that affect the reported amounts of assets and liabilities, the disclosure of contingent liabilities at the date of the financial statements, and the reported amounts of revenue and expenses during the reporting period. The significant estimates, assumptions, and judgments include, but are not limited to, excess and obsolete inventory, income taxes and other provisions, and acquisitions and asset valuations.â€‹Significant Accounting PoliciesOur accounting policies are described in Note 1. Summary of Operations and Significant Accounting Policies and Estimates to our audited consolidated financial statements in our Annual Report on Form 10-K for the year ended December 31, 2023. â€‹8 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)(In thousands, except per share data)â€‹New Accounting StandardsFrom time to time, the Financial Accounting Standards Board (â€œFASBâ€) or other standards setting bodies issue new accounting pronouncements. Updates to the FASB Accounting Standards Codification (â€œASCâ€) are communicated through issuance of an Accounting Standards Update (â€œASUâ€). Unless otherwise discussed, we believe that the impact of recently issued guidance, whether adopted or to be adopted in the future, will not have a material impact on the consolidated financial statements upon adoption.New Accounting Standards Issued But Not Yet AdoptedIn November 2023, the FASB issued ASU 2023-07 â€œSegment Reporting (Topic 280) Improvements to Reportable Segment Disclosures.â€ ASU 2023-07 expands disclosure requirements to require additional information about significant segment expenses. In addition, the ASU enhances interim disclosures, clarifies circumstances in which an entity can disclose multiple segment measures of profit or loss, and provides new disclosures requirements for entities with a single reportable segment. This guidance will be effective for us in our Annual Report on Form 10-K for the year ending December 31, 2024. We do not expect the above guidance to materially impact our consolidated financial statements.In December 2023, the FASB issued ASU 2023-09 â€œImprovements to Income Tax Disclosures.â€ ASU 2023-09 requires disaggregated information about a reporting entityâ€™s effective tax rate reconciliation as well as additional disclosure on income taxes paid. This guidance will be effective for us on January 1, 2025. We do not expect the above guidance to materially impact our consolidated financial statements.In March 2024, the SEC issued climate-related disclosure rules. These rules do not change accounting treatment, but they significantly expand the climate-related information companies are required to disclose. Several petitions were filed challenging these climate-related disclosure rules and, in April 2024, the SEC voluntarily stayed the rules, pending completion of judicial review. We do not expect the above disclosure requirement to materially impact our consolidated financial statements. We are evaluating the disclosure requirements and changes to our business processes, systems, and controls to support the additional disclosures.â€‹â€‹â€‹â€‹9 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)(In thousands, except per share data)â€‹NOTE 2. ACQUISITIONSOn June 20, 2024, we acquired 100% of the issued and outstanding shares of capital stock of Airity Technologies, Inc. (â€œAirityâ€), which is based in Redwood City, California. We accounted for this transaction as a business combination. Airity focuses on high voltage power conversion technologies and products, which broadens our range of targeted applications in our Semiconductor Equipment and Industrial and Medical markets.The following table summarizes the consideration paid:â€‹â€‹â€‹â€‹â€‹â€‹â€‹ConsiderationCash paid at closing â€‹$ 14,301Advanced Energy common stockâ€‹â€‹ 4,463Settlement of payablesâ€‹â€‹ (654)Indemnity holdback payable on the one-year anniversaryâ€‹â€‹ 1,500Total fair value of purchase considerationâ€‹$ 19,610â€‹We are still evaluating the fair value of the assets acquired and liabilities assumed, inclusive of the acquiredintangible assets, including their estimated useful lives, related tax impacts, and resulting goodwill. Our preliminary allocation of the fair value of purchase consideration was as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹Fair ValueCashâ€‹$ 539Current assets and liabilities, netâ€‹â€‹ 457Property and equipmentâ€‹â€‹ 42Deferred tax liabilityâ€‹â€‹ (2,229)Intangible assets â€‹â€‹ 4,200Goodwill (not deductible for tax purposes)â€‹â€‹ 16,601Total fair value of net assets acquiredâ€‹$ 19,610â€‹We included Airityâ€™s results of operations in our consolidated financial statements from the date of acquisition. In connection with the acquisition, we entered into agreements with certain former Airity employees. On the closing date, these individuals received a total of 0.1 million shares of Advanced Energy common stock valued at $15.6 million based on the June 20, 2024 closing price, of which $4.5 million was allocated to purchase consideration and $11.1 million will be future compensation. We will record the $11.1 million as stock-based compensation expense over the three-year expected vesting period. â€‹10 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)(In thousands, except per share data)â€‹NOTEÂ 3.Â Â Â Â REVENUEDisaggregation of revenueThe following tables present additional information regarding our revenue: Revenue by Marketâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024â€‹2023Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â Semiconductor Equipmentâ€‹$ 197,497â€‹$ 185,033â€‹$ 565,721â€‹$ 552,419â€‹Industrial and Medicalâ€‹Â 76,837â€‹Â 115,226â€‹Â 239,359â€‹Â 365,849â€‹Data Center Computingâ€‹â€‹ 80,653â€‹â€‹ 68,286â€‹â€‹ 195,519â€‹â€‹ 187,021â€‹Telecom and Networkingâ€‹â€‹ 19,230â€‹â€‹ 41,446â€‹â€‹ 66,040â€‹â€‹ 145,250â€‹Totalâ€‹$ 374,217â€‹$ 409,991â€‹$ 1,066,639â€‹$ 1,250,539â€‹â€‹Revenue by Regionâ€‹Three Months Ended SeptemberÂ 30,Â â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹Â Â Â Â 2024â€‹Â Â Â Â 2023â€‹Â Â Â Â 2024Â Â Â Â Â Â Â Â 2023â€‹Â Â Â Â North Americaâ€‹$ 175,691Â Â Â Â 47.0%Â Â Â Â $ 184,783Â Â Â Â 45.1%Â Â Â Â $ 482,564Â Â Â Â 45.2%Â Â Â Â $ 537,241Â Â Â Â 42.9%â€‹Asiaâ€‹â€‹ 163,212â€‹ 43.6â€‹â€‹â€‹ 178,190â€‹ 43.5â€‹â€‹â€‹ 467,110â€‹ 43.8â€‹â€‹â€‹ 543,871â€‹ 43.5â€‹â€‹Europeâ€‹â€‹ 34,892â€‹ 9.3â€‹â€‹â€‹ 46,088â€‹ 11.2â€‹â€‹â€‹ 115,258â€‹ 10.8â€‹â€‹â€‹ 164,867â€‹ 13.2â€‹â€‹Otherâ€‹Â 422â€‹ 0.1â€‹â€‹â€‹ 930â€‹ 0.2â€‹â€‹â€‹ 1,707â€‹ 0.2â€‹â€‹â€‹ 4,560â€‹ 0.4â€‹â€‹Totalâ€‹$ 374,217â€‹ 100.0%â€‹$ 409,991â€‹ 100.0%â€‹$ 1,066,639â€‹ 100.0%â€‹$ 1,250,539â€‹ 100.0%â€‹â€‹Revenue by Significant Countriesâ€‹Three Months Ended SeptemberÂ 30,Â â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹â€‹â€‹Â Â Â Â 2024â€‹Â Â Â Â 2023â€‹Â Â Â Â 2024Â Â Â Â Â Â Â Â 2023â€‹Â Â Â Â United Statesâ€‹$ 134,614Â Â Â Â 35.9%Â Â Â Â $ 156,710Â Â Â Â 38.2%Â Â Â Â $ 371,925Â Â Â Â 34.9%Â Â Â Â $ 457,325Â Â Â Â 36.6%â€‹Mexicoâ€‹â€‹ 40,953â€‹ 10.9â€‹â€‹â€‹ 27,464â€‹ 6.7â€‹â€‹â€‹ 109,768â€‹ 10.3â€‹â€‹â€‹ 77,953â€‹ 6.2â€‹â€‹Taiwanâ€‹â€‹ 40,990â€‹ 11.0â€‹â€‹â€‹ 33,136â€‹ 8.1â€‹â€‹â€‹ 119,571â€‹ 11.2â€‹â€‹â€‹ 98,842â€‹ 7.9â€‹â€‹Chinaâ€‹â€‹ 28,725â€‹ 7.7â€‹â€‹â€‹ 41,391â€‹ 10.1â€‹â€‹â€‹ 70,298â€‹ 6.6â€‹â€‹â€‹ 132,039â€‹ 10.6â€‹â€‹All othersâ€‹â€‹ 128,935â€‹ 34.5â€‹â€‹â€‹ 151,290â€‹ 36.9â€‹â€‹â€‹ 395,077â€‹ 37.0â€‹â€‹â€‹ 484,380â€‹ 38.7â€‹â€‹Totalâ€‹$ 374,217â€‹ 100.0%â€‹$ 409,991â€‹ 100.0%â€‹$ 1,066,639â€‹ 100.0%â€‹$ 1,250,539â€‹ 100.0%â€‹â€‹We attribute revenue to individual countries and regions based on the customerâ€™s ship to location. Excluding the specific countries listed above, no individual country exceeded 10% of our total consolidated revenues during the periods presented. Revenue by Categoryâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Â Â Â Â 2024â€‹2023Â Â Â Â 2024Â Â Â Â 2023Productâ€‹$ 332,647â€‹$ 369,129â€‹$ 944,279â€‹$ 1,118,284Services and otherâ€‹â€‹ 41,570Â â€‹ 40,862â€‹â€‹ 122,360Â â€‹ 132,255Totalâ€‹$ 374,217Â $ 409,991â€‹$ 1,066,639Â $ 1,250,539â€‹Other revenue includes certain spare parts and products sold by our service group.â€‹11 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)(In thousands, except per share data)â€‹Significant CustomersDuring the three months ended September 30, 2024, Applied Materials, Inc. and Lam Research Corporation accounted for 25% and 11%, respectively, of our total revenue. During the nine months ended September 30, 2024, Applied Materials, Inc. and Lam Research Corporation accounted for 27% and 10%, respectively, of our total revenue. During the three and nine months ended September 30, 2023, Applied Materials Inc. accounted for 23% and 21%, respectively, of our total revenue. No other customerâ€™s revenue exceeded 10% of our total revenue in the periods presented.As of September 30, 2024, the account receivable balance from Applied Materials, Inc. accounted for 28% of our total accounts receivable. As of December 31, 2023, the account receivable balance from Applied Materials, Inc. accounted for 26% of our total accounts receivable. No other customerâ€™s account receivable exceeded 10% of our total accounts receivable in the periods presented.â€‹â€‹â€‹NOTEÂ 4.Â Â Â Â INCOME TAX The following table summarizes tax provision (benefit) and the effective tax rate for our income (loss) from continuing operations:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023â€‹Income (loss) from continuing operations, before income taxâ€‹$ (14,547)â€‹$ 34,525â€‹$ 11,796â€‹$ 106,263â€‹Income tax provision (benefit)â€‹$ (400)â€‹$ 874â€‹$ 4,552â€‹$ 13,405â€‹Effective tax rateâ€‹â€‹ (2.7)%â€‹ 2.5%â€‹ 38.6%â€‹ 12.6%â€‹Our effective tax rates differ from the U.S. federal statutory rate of 21% primarily due to the benefit of earnings in foreign jurisdictions which are subject to lower tax rates, as well as tax credits, partially offset by net U.S. tax on foreign operations. â€‹The previously announced Zhongshan, China factory closure impacted our effective tax rate in both the three and nine months ended September 30, 2024. For the nine months ended September 30, 2024, our effective tax rate was higher than the same period in the prior year due to smaller beneficial discrete items in the current period relative to the larger beneficial discrete items in the prior period.â€‹As of January 1, 2024, the Pillar II minimum global effective tax rate of 15% enacted by the Organization for Economic Cooperation and Development (â€œOECDâ€) was effectuated. More than 140 countries agreed to enact the Pillar II global minimum tax. However, the timing of the implementation for each country varies. To date, we have determined that there was an immaterial global minimum tax liability as a result of Pillar II, as certain tax jurisdictions either will not have Pillar II enacted until after December 31, 2024 or satisfied the safe harbor test to prevent any minimum tax under Pillar II. We continue to monitor the jurisdictions for any changes and include any appropriate minimum tax throughout the year.â€‹12 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)(In thousands, except per share data)â€‹NOTEÂ 5.Â Â Â Â STOCKHOLDERSâ€™ EQUITY AND EARNINGS PER SHARE Accumulated Other Comprehensive Income (Loss)The following table summarizes the components of, and changes in, accumulated other comprehensive income(loss), net of income taxes.â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Â Â Â Â â€‹Foreign Currency TranslationÂ Â Â Â â€‹Change in Fair Value of Cash Flow HedgesÂ Â Â Â â€‹Defined Employee Benefit PlanÂ Â Â Â â€‹TotalBalance at December 31, 2022â€‹$ (12,823)â€‹$ 11,848â€‹$ 17,295â€‹$ 16,320Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (196)â€‹â€‹ 595â€‹â€‹ â€”â€‹â€‹ 399Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹

(2,412)â€‹â€‹ â€”â€‹â€‹ (2,412)Balance at March 31, 2023â€‹â€‹ (13,019)â€‹â€‹ 10,031â€‹â€‹ 17,295â€‹â€‹ 14,307Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (1,533)â€‹â€‹ 2,555â€‹â€‹ â€”â€‹â€‹ 1,022Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹ (2,756)â€‹â€‹ (292)â€‹â€‹ (3,048)Balance at June 30, 2023â€‹â€‹ (14,552)â€‹â€‹ 9,830â€‹â€‹ 17,003â€‹â€‹ 12,281Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (5,069)â€‹â€‹ 1,036â€‹â€‹ â€”â€‹â€‹ (4,033)Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹ (2,858)â€‹â€‹ â€”â€‹â€‹ (2,858)Balance at September 30, 2023â€‹$ (19,621)â€‹$ 8,008â€‹$ 17,003â€‹$ 5,390â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Â Â Â Â â€‹Foreign Currency TranslationÂ Â Â Â â€‹Change in Fair Value of Cash Flow HedgesÂ Â Â Â â€‹Defined Employee Benefit PlanÂ Â Â Â â€‹TotalBalance at December 31, 2023â€‹$ (10,796)â€‹$ 5,474â€‹$ 11,436â€‹$ 6,114Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (6,589)â€‹â€‹ 1,405â€‹â€‹ â€”â€‹â€‹ (5,184)Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹ (2,785)â€‹â€‹ â€”â€‹â€‹ (2,785)Balance at March 31, 2024â€‹â€‹ (17,385)â€‹â€‹ 4,094â€‹â€‹ 11,436â€‹â€‹ (1,855)Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (2,561)â€‹â€‹ 395â€‹â€‹ â€”â€‹â€‹ (2,166)Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹ (2,751)â€‹â€‹ (51)â€‹â€‹ (2,802)Balance at June 30, 2024â€‹â€‹ (19,946)â€‹â€‹ 1,738â€‹â€‹ 11,385â€‹â€‹ (6,823)Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ 10,816â€‹â€‹ 444â€‹â€‹ (2,228)â€‹â€‹ 9,032Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ 1,585â€‹â€‹ (2,182)â€‹â€‹ 477â€‹â€‹ (120)Balance at September 30, 2024â€‹$ (7,545)â€‹$ â€”â€‹$ 9,634â€‹$ 2,08913 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)(In thousands, except per share data)â€‹â€‹Amounts reclassified from accumulated other comprehensive income (loss) to the specific caption within theConsolidated Statements of Operations were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â Â Â Â Â Nine Months Ended SeptemberÂ 30,Â Â Â Â Â To Caption on Consolidatedâ€‹Â Â Â 2024â€‹2023â€‹Â Â Â Â 2024Â Â Â Â â€‹2023â€‹Statements of OperationsForeign currency translationâ€‹$ 1,585â€‹$ â€”â€‹$ 1,585â€‹$ â€”â€‹Other income (expense), netCash flow hedgesâ€‹â€‹ (2,182)â€‹â€‹ (2,858)â€‹â€‹ (7,718)â€‹â€‹ (8,026)â€‹Interest expenseDefined employee benefit planâ€‹â€‹ 477â€‹â€‹ â€”â€‹â€‹ 426â€‹â€‹ (292)â€‹Other income (expense), netTotal reclassificationsâ€‹$ (120)â€‹$ (2,858)â€‹$ (5,707)â€‹$ (8,318)â€‹â€‹â€‹Earnings (Loss) Per ShareThe following table summarizes our earnings per share (â€œEPSâ€):â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Income (loss) from continuing operationsâ€‹$ (14,147)â€‹$ 33,651â€‹$ 7,244â€‹$ 92,858â€‹Basic weighted-average common shares outstandingâ€‹Â 37,532â€‹Â 37,575â€‹Â 37,455â€‹Â 37,541Dilutive effect of stock awardsâ€‹Â â€”â€‹Â 279â€‹Â 330â€‹Â 301Diluted weighted-average common shares outstandingâ€‹Â 37,532â€‹Â 37,854â€‹Â 37,785â€‹Â 37,842â€‹EPS from continuing operationsâ€‹Â Â Â â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â Basic EPSâ€‹$ (0.38)â€‹$ 0.90â€‹$ 0.19â€‹$ 2.47Diluted EPSâ€‹$ (0.38)â€‹$ 0.89â€‹$ 0.19â€‹$ 2.45â€‹Anti-dilutive shares not included aboveâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Stock awardsâ€‹â€‹ 371â€‹â€‹ 27â€‹â€‹ 4â€‹â€‹ 84Warrantsâ€‹â€‹ 3,076â€‹â€‹ 3,180â€‹â€‹ 3,212â€‹â€‹ 3,180Total anti-dilutive sharesâ€‹â€‹ 3,447â€‹â€‹ 3,207â€‹â€‹ 3,216â€‹â€‹ 3,264â€‹We compute basic earnings per share of common stock (â€œBasic EPSâ€) by dividing income (loss) available to common stockholders by the weighted-average number of common shares outstanding during the period. â€‹See Note 18. Long-Term Debt in our Annual Report on Form 10-K for the year ended December 31, 2023 for information regarding our Convertible Notes, Note Hedges, and Warrants. For diluted earnings per share of common stock (â€œDiluted EPSâ€), we increase the weighted-average number of common shares outstanding during the period, as needed, to include the following:â—Additional common shares that would have been outstanding if our outstanding stock awards had been converted to common shares using the treasury stock method. We exclude any stock awards that have an anti-dilutive effect;14 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)(In thousands, except per share data)â€‹â—Dilutive impact associated with the Convertible Notes using the if-converted method. The Convertible Notes are repayable in cash up to par value and in cash or shares of common stock for the excess over par value. When the stock price is lower than the strike price, there is no dilutive or anti-dilutive impact. Prior to conversion, we do not consider the Note Hedges for purposes of Diluted EPS as their effect would be anti-dilutive. Upon conversion, we expect the Note Hedges to offset the dilutive effect of the Convertible Notes when the stock price is above $137.46 but below $179.76; andâ—Dilutive effect of the Warrants issued concurrently with the Convertible Notes using the treasury stock method. For all periods presented, the Warrants did not increase the weighted-average number of common shares outstanding because the $179.76 exercise price of the Warrants exceeded the average market price of our common stock. Share RepurchaseTo repurchase shares of our common stock, we periodically enter into stock repurchase agreements. The following table summarizes these repurchases:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹(in thousands, except per share amounts)Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â Amount paid or accrued to repurchase sharesâ€‹$ 1,770â€‹$ 40,000â€‹$ 1,770â€‹$ 40,000â€‹Number of shares repurchasedâ€‹Â 19â€‹Â 378â€‹Â 19â€‹Â 378â€‹Average repurchase price per shareâ€‹$ 93.58â€‹$ 105.74â€‹$ 93.58â€‹$ 105.74â€‹â€‹At September 30, 2024, the remaining amount authorized by the Board of Directors for future share repurchases was $197.4 million with no time limitation. â€‹â€‹NOTEÂ 6.Â Â Â Â FAIR VALUE MEASUREMENTSThe following tables present information about our assets and liabilities measured at fair value on a recurring basis:â€‹SeptemberÂ 30,Â 2024Descriptionâ€‹Balance Sheet Classificationâ€‹LevelÂ 1â€‹LevelÂ 2â€‹LevelÂ 3â€‹TotalFairÂ ValueCertificates of depositâ€‹Other current assetsâ€‹$ â€”â€‹â€‹ 157â€‹â€‹ â€”â€‹$ 157Foreign currency forward contractsâ€‹Other accrued expensesâ€‹$ â€”â€‹â€‹ 168â€‹â€‹ â€”â€‹$ 168Investmentsâ€‹Other assetsâ€‹$ â€”â€‹â€‹ 9,668â€‹â€‹ â€”â€‹$ 9,668â€‹DecemberÂ 31,Â 2023Descriptionâ€‹Balance Sheet Classificationâ€‹LevelÂ 1Â Â LevelÂ 2Â Â LevelÂ 3Â Â TotalFairÂ ValueCertificates of depositâ€‹Other current assetsâ€‹$ â€”â€‹â€‹ 163â€‹â€‹ â€”â€‹$ 163Interest rate swapsâ€‹Other assetsâ€‹$ â€”â€‹â€‹ 6,995â€‹â€‹ â€”â€‹$ 6,995Investmentsâ€‹Other assetsâ€‹$ â€”â€‹â€‹ 5,952â€‹â€‹ â€”â€‹$ 5,952â€‹â€‹15 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)(In thousands, except per share data)â€‹NOTEÂ 7.Â Â Â Â DERIVATIVE FINANCIAL INSTRUMENTSChanges in foreign currency exchange rates impact our results of operations and cash flows. We may manage these risks through the use of derivative financial instruments, primarily forward contracts with banks. These forward contracts manage the exchange rate risk associated with assets and liabilities denominated in nonfunctional currencies. Typically, we execute these derivative instruments for one-month periods and do not designate them as hedges; however, they do partially offset the economic fluctuations of certain of our assets and liabilities due to foreign exchange rate changes. At September 30, 2024 we have $105.9 million foreign currency forward contracts outstanding. There were no foreign currency forward contracts outstanding at December 31, 2023.Gains and losses related to foreign currency exchange contracts were offset by corresponding gains and losses on the revaluation of the underlying assets and liabilities. Both are included as a component of other income (expense), net in our Consolidated Statements of Operations. We had interest rate swap contracts that fixed a portion of the interest payments on our Term Loan Facility. The interest rate swap contracts expired on September 10, 2024. In connection with the expiration, there are no longer any related balances for these contracts within accumulated other comprehensive income on the Consolidated Balance Sheets as of September 30, 2024. See Note 16. Long-Term Debt for information regarding the Term Loan Facility.See Note 6. Fair Value Measurements for information regarding fair value of derivative instruments.As a result of using derivative financial instruments, we are exposed to the risk that counterparties to contracts could fail to meet their contractual obligations. We manage this credit risk by reviewing counterparty creditworthiness on a regular basis and limiting exposure to any single counterparty.â€‹NOTEÂ 8.Â Â Â Â ACCOUNTS RECEIVABLE, NETWe record accounts receivable at net realizable value. Our accounts receivable, net balance on the Consolidated Balance Sheets was $259.4 million at September 30, 2024. The following table summarizes the changes in expected credit losses related to receivables:â€‹â€‹â€‹â€‹â€‹December 31, 2023Â Â Â $ 1,762Additionsâ€‹Â 94Deductions - write-offs, net of recoveriesâ€‹â€‹ (399)September 30, 2024â€‹$ 1,457â€‹â€‹â€‹â€‹â€‹NOTEÂ 9.Â Â Â Â INVENTORIESWe value inventories at the lower of cost or net realizable value, computed on a first-in, first-out basis. Components of inventories were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Parts and raw materialsâ€‹$ 273,793â€‹$ 249,698Work in processâ€‹Â 19,502â€‹Â 14,595Finished goodsâ€‹Â 84,445â€‹Â 71,844Totalâ€‹$ 377,740â€‹$ 336,137â€‹â€‹16 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)(In thousands, except per share data)â€‹NOTEÂ 10.Â Â Â Â INTANGIBLE ASSETS AND GOODWILLIntangible assets consisted of the following:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â 2024â€‹Â Â Â Â GrossÂ CarryingÂ Â Â Â Â AccumulatedÂ Â Â Â Â NetÂ CarryingÂ Â Â Â Â Weighted Average Remainingâ€‹â€‹Amountâ€‹Amortizationâ€‹AmountÂ Useful Life (in years)Technologyâ€‹$ 100,988â€‹$ (69,407)â€‹$ 31,581â€‹7.1Customer relationshipsâ€‹Â 170,486â€‹â€‹ (68,944)â€‹Â 101,542â€‹8.8Trademarks and otherâ€‹Â 27,219â€‹â€‹ (15,052)â€‹Â 12,167â€‹4.9Totalâ€‹$ 298,693â€‹$ (153,403)â€‹$ 145,290â€‹8.1â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹DecemberÂ 31,Â 2023â€‹Â Â Â Â GrossÂ CarryingÂ Â Â Â Â AccumulatedÂ Â Â Â Â NetÂ Carryingâ€‹Weighted Average Remainingâ€‹â€‹Amountâ€‹Amortizationâ€‹Â Amountâ€‹Useful Life (in years)Technologyâ€‹$ 97,961â€‹$ (60,412)â€‹$ 37,549â€‹6.8Customer relationshipsâ€‹Â 168,685â€‹â€‹ (58,835)â€‹Â 109,850â€‹9.5Trademarks and otherâ€‹Â 27,141â€‹â€‹ (13,062)â€‹Â 14,079â€‹5.6Totalâ€‹$ 293,787â€‹$ (132,309)â€‹$ 161,478â€‹8.5â€‹Amortization expense related to intangible assets is as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023â€‹Amortization expenseâ€‹$ 6,772â€‹$ 7,049â€‹$ 20,519â€‹$ 21,186â€‹â€‹Estimated future amortization expense related to intangibles is as follows:â€‹â€‹â€‹â€‹â€‹Year Ending DecemberÂ 31,Â Â Â Â Â â€‹â€‹2024 (remaining)â€‹$ 5,5732025â€‹Â 22,1482026â€‹Â 20,0632027â€‹Â 17,8152028â€‹â€‹ 16,569Thereafterâ€‹Â 63,122Totalâ€‹$ 145,290â€‹â€‹â€‹â€‹â€‹The following table summarizes the changes in goodwill:â€‹â€‹â€‹â€‹â€‹December 31, 2023â€‹$ 283,840Additions from acquisitionâ€‹â€‹ 16,601Foreign currency translation and otherâ€‹â€‹ (1,405)September 30, 2024Â Â Â Â $ 299,036â€‹â€‹â€‹â€‹17 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)(In thousands, except per share data)â€‹NOTEÂ 11.Â Â Â Â RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGESDetails of restructuring, asset impairments, and other charges are as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹2024â€‹2023Â Â Â Â 2024â€‹2023â€‹RestructuringÂ Â Â Â $ 27,790â€‹$ 4,709â€‹$ 27,844â€‹$ 8,906â€‹Other chargesâ€‹â€‹ 756â€‹â€‹ â€”â€‹â€‹ 1,572â€‹â€‹ â€”â€‹Total restructuring, asset impairments, and other chargesâ€‹$ 28,546Â $ 4,709Â $ 29,416Â $ 8,906â€‹â€‹Restructuring We have the following restructuring plans in process:2024 PlanOn July 29, 2024, we approved actions in furtherance of our previously announced manufacturing consolidation initiatives intended to optimize our manufacturing footprint and cost structure, including the previously announced closure of our Zhongshan, China facility (the â€œ2024 Planâ€). In connection with the 2024 Plan, we recorded a $28.5 million charge during the third quarter of 2024 primarily associated with expected employment-related charges for, among other things, one-time cash payments for severance, benefits expenses, payroll taxes, and other ancillary costs. The charge includes estimated liabilities for lease termination and facility exit costs, which could be subject to further adjustments. The remaining contractual rental obligations under the lease agreements are recorded in current portion of operating lease liabilities and operating lease liabilities on our Consolidated Balance Sheets.We expect to incur $1.0 million to $2.0 million in additional charges related to our announced actions and continue to evaluate our operations and cost structure, which could result in incremental restructuring charges in future periods. We anticipate the 2024 Plan will be substantially completed by the second quarter of 2025, with final activities concluding in 2026. 2023 PlanIn 2023, we approved a plan intended to optimize and further consolidate our manufacturing operations and functional support groups as well as a general reduction-in-force to align our expenses to revenue levels (the â€œ2023 Planâ€). We expect to incur approximately $1.0 million in additional charges through the second quarter of 2025. We anticipate the 2023 Plan will be substantially completed by the end of 2024, with the final activities concluding in the second quarter of 2025. 2022 PlanThis plan was approved to improve our operating efficiencies and drive the realization of synergies from our business combinations by consolidating our operations, optimizing our factory footprint, including moving certain production into our higher volume factories, reducing redundancies, and lowering our cost structure. The 2022 Plan is now complete. 18 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)(In thousands, except per share data)â€‹Changes in restructuring liabilities were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Â Â Â Â 2024 PlanÂ Â Â Â 2023 PlanÂ Â Â Â 2022 PlanÂ Â Â Â OtherÂ Â Â Â TotalDecember 31, 2023â€‹$ â€”â€‹$ 14,224â€‹$ 2,930â€‹$ 188â€‹$ 17,342Costs incurred and charged to expenseâ€‹â€‹ 28,454â€‹â€‹ (698)â€‹â€‹ 88â€‹â€‹ â€”â€‹â€‹ 27,844Costs paidâ€‹â€‹ (855)â€‹â€‹ (7,653)â€‹â€‹ (3,018)â€‹â€‹ (188)â€‹â€‹ (11,714)Foreign currency translationâ€‹â€‹ 457â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 457September 30, 2024â€‹$ 28,056â€‹$ 5,873â€‹$ â€”â€‹$ â€”â€‹$ 33,929â€‹$28.3 million of the above restructuring liability is included in other accrued expenses and $5.6 million is included in other long-term liabilities on our Consolidated Balance Sheets.Charges related to our restructuring plans are as follows:â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹2024â€‹2023â€‹2024â€‹2023â€‹Severance and related chargesÂ Â Â Â $ 27,356Â Â Â Â $ 4,709Â Â Â Â $ 27,410Â Â Â Â $ 8,906â€‹Facility relocation and closure chargesâ€‹â€‹ 434Â â€‹ â€”Â â€‹ 434Â â€‹ â€”â€‹Total restructuring chargesâ€‹$ 27,790Â $ 4,709Â $ 27,844Â $ 8,906â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Cumulative Cost Throughâ€‹â€‹SeptemberÂ 30,Â 2024â€‹Â Â Â Â 2024 PlanÂ Â Â Â 2023 PlanÂ Â Â Â 2022 PlanÂ Â Â Â TotalSeverance and related chargesÂ Â Â Â $ 28,020â€‹$ 16,405â€‹$ 14,075â€‹$ 58,500Facility relocation and closure chargesâ€‹â€‹ 434â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 434Total restructuring chargesâ€‹$ 28,454â€‹$ 16,405â€‹$ 14,075â€‹$ 58,934â€‹Other ChargesOther charges relate to vacating and relocating facilities.â€‹â€‹â€‹NOTEÂ 12.Â Â Â Â WARRANTIES Our sales agreements include customary product warranty provisions, which generally range from 12 to 36 months after shipment. We record the estimated warranty obligations cost when we recognize revenue. This estimate is based on historical experience by product and configuration.We include warranty obligation in other accrued expenses in our Consolidated Balance Sheets. Changes in our product warranty obligation were as follows:â€‹â€‹â€‹â€‹â€‹December 31, 2023â€‹$ 4,007Net increases to accrualsâ€‹Â 2,088Warranty expendituresâ€‹Â (1,640)Effect of changes in exchange ratesâ€‹Â 155September 30, 2024â€‹$ 4,610â€‹â€‹â€‹19 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)(In thousands, except per share data)â€‹NOTEÂ 13.Â Â Â Â LEASESComponents of total operating lease cost were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Operating lease costâ€‹$ 5,859â€‹$ 5,629â€‹$ 17,575â€‹$ 16,965Short-term and variable lease costâ€‹â€‹ 897â€‹â€‹ 1,100â€‹â€‹ 2,474â€‹â€‹ 3,170Total operating lease costâ€‹$ 6,756â€‹$ 6,729â€‹$ 20,049â€‹$ 20,135â€‹Estimated future payments on our operating lease liabilities are as follows:â€‹â€‹â€‹â€‹â€‹Year Ending December 31,Â Â Â Â Â â€‹â€‹2024 (remaining)â€‹$ 6,1272025â€‹Â 22,5572026â€‹Â 17,0772027â€‹â€‹ 13,6162028â€‹â€‹ 13,171Thereafterâ€‹â€‹ 50,930Total lease paymentsâ€‹â€‹ 123,478Less: Interestâ€‹â€‹ (24,854)Present value of lease liabilitiesâ€‹$ 98,624â€‹In addition to the above, we have lease agreements with total payments of $32.8 million that commence on various dates in 2024 and 2025 and extend through 2040.In connection with the closure of our Zhongshan, China facility under the 2024 Plan (see Note 11. Restructuring, Asset Impairments, and Other Charges), we expect to terminate the facilityâ€™s lease agreement before its expiration. During the third quarter of 2024, we reduced both the operating lease right-of-use asset and operating lease liability by $20.7 million.The following tables present additional information about our lease agreements:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â â€‹â€‹DecemberÂ 31,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â Â Â Â Â 2023â€‹Weighted average remaining lease term (in years)â€‹â€‹ 7.8â€‹â€‹â€‹ 8.3â€‹Weighted average discount rateâ€‹Â 5.5%â€‹â€‹ 5.0%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â Cash paid for operating leases$ 5,823â€‹$ 5,683â€‹$ 17,476â€‹$ 17,290â€‹Right-of-use assets obtained in exchange for operating lease liabilities$ 7,367â€‹$ 9,271â€‹$ 25,784â€‹$ 11,900â€‹â€‹â€‹â€‹â€‹â€‹20 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)(In thousands, except per share data)â€‹NOTEÂ 14.Â Â Â Â STOCK-BASED COMPENSATIONThe Compensation Committee of our Board of Directors administers our stock plans. As of September 30, 2024, we had two active stock-based incentive compensation plans: the Amended and Restated 2023 Omnibus Incentive Plan (the â€œ2023 Incentive Planâ€) and the Employee Stock Purchase Plan (â€œESPPâ€). The 2023 Incentive Plan was approved by stockholders on April 27, 2023 and amended and restated on November 2, 2023. We issue all new equity compensation grants under the 2023 Incentive Plan; however, outstanding awards previously issued under now inactive plans will continue to vest and remain exercisable in accordance with the terms of the respective plans.The 2023 Incentive Plan provides for the grant of awards including stock options, stock appreciation rights,Â performance stock units, performance units, stock, restricted stock, restricted stock units, and cash incentive awards.The following table summarizes information related to our stock-based incentive compensation plans:â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â 2024Shares available for future issuance under the 2023 Incentive Planâ€‹ 1,809Shares available for future issuance under the ESPPâ€‹ 556â€‹Stock-Based Compensation ExpenseWe recognize stock-based compensation expense based on the fair value of the awards issued and the functional area of the employee receiving the award. During the nine months ended September 30, 2024, stock-based compensation expense includes $1.8 million related to a modification for accounting purposes of prior awards. Stock-based compensation was as follows: â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â Stock-based compensation expenseâ€‹$ 11,914â€‹$ 8,075â€‹$ 34,303â€‹$ 22,813â€‹â€‹See Note 2. Acquisitions for information regarding future stock-based compensation expense related to the Airity acquisition. Restricted Stock UnitsGenerally, we grant restricted stock units (â€œRSUsâ€) with a three year time-based vesting schedule. Certain RSUs contain performance-based or market-based vesting conditions in addition to the time-based vesting requirements. RSUs are generally granted with a grant date fair value based on the market price of our stock on the date of grant. â€‹Changes in our RSUs were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â 2024â€‹Â Â Â Â â€‹Â Â Â Â Weighted-â€‹â€‹â€‹â€‹Averageâ€‹â€‹Number ofâ€‹Grant Dateâ€‹â€‹RSUsâ€‹Fair ValueRSUs outstanding at beginning of periodÂ 917â€‹$ 85.96RSUs grantedÂ 546â€‹$ 104.79RSUs vestedÂ (286)â€‹$ 90.22RSUs forfeitedÂ (87)â€‹$ 77.73RSUs outstanding at end of periodÂ 1,090â€‹$ 94.92â€‹21 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€" (Continued)(In thousands, except per share data)â€‹Stock OptionsGenerally, we grant stock option awards with an exercise price equal to the market price of our stock at the date of grant and with either a three or four-year vesting schedule or performance-based vesting. Stock option awards generally have a term of ten years.Changes in our stock options were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â 2024â€‹Â Â Â Â â€‹Â Â Â Â Weighted-â€‹â€‹â€‹â€‹Averageâ€‹â€‹Number ofâ€‹ExerciseÂ Priceâ€‹â€‹Optionsâ€‹per ShareOptions outstanding at beginning of periodÂ 89â€‹$ 76.69Options exercisedÂ (10)â€‹$ 26.32Options outstanding at end of periodÂ 79â€‹$ 83.05â€‹â€‹â€‹NOTEÂ 15.Â Â Â Â COMMITMENTS AND CONTINGENCIESWe are involved in disputes and legal actions arising in the normal course of our business. While we currently believe that the amount of any ultimate loss would not be material to our financial position, the outcome of these actions is inherently difficult to predict. In the event of an adverse outcome, the ultimate loss could have a material adverse effect on our financial position or reported results of operations. An unfavorable decision in intellectual property litigation also could require material changes in production processes and products or result in our inability to ship products or components found to have violated third party intellectual property rights. We accrue loss contingencies in connection with our commitments and contingencies, including litigation, when it is probable that a loss has occurred, and the amount of such loss can be reasonably estimated. We are not currently a party to any legal action that we believe would have a material adverse impact on our business, financial condition, results of operations or cash flows. We maintain defined benefit pension plans for certain of our non-U.S. employees, including the United Kingdom. In light of the United Kingdomâ€™s High Court ruling in the case of Virgin Media Ltd v. NTL Pension Trustees II Ltd & Ors, which was recently upheld on appeal, we are reviewing past amendments made to our United Kingdom pension plans to evaluate whether any changes were implemented in conflict with section 37 of the United Kingdom Pension Schemes Act 1993. Should there be a challenge to any previous amendments to our pension plan in the United Kingdom, we could face potential litigation and compliance risks. We continue to account for our United Kingdom pension arrangements in accordance with the plan agreements and amendments, as we believe they represent a mutual understanding and agreement among all parties. â€‹â€‹22 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€" (Continued)(In thousands, except per share data)â€‹NOTEÂ 16. LONG-TERM DEBTLong-term debt on our Consolidated Balance Sheets consists of the following:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Convertible Notes due 2028â€‹$ 575,000â€‹$ 575,000Term Loan Facilityâ€‹â€‹ â€"â€‹â€‹ 355,000Gross long-term debt, including current maturitiesâ€‹â€‹ 575,000â€‹â€‹ 930,000Less: debt discountâ€‹â€‹ (11,000)â€‹â€‹ (14,321)Net long-term debt, including current maturitiesâ€‹â€‹ 564,000â€‹â€‹ 915,679Less: current maturitiesâ€‹â€‹ â€"â€‹â€‹ (20,000)Net long-term debtâ€‹$ 564,000â€‹$ 895,679â€‹For all periods presented, we were in compliance with the covenants under all debt agreements.The following table summarizes interest expense related to our debt:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023â€‹Interest expenseâ€‹$ 5,736â€‹$ 3,528â€‹$ 18,403â€‹$ 8,818â€‹Amortization of debt issuance costsâ€‹â€‹ 794â€‹â€‹ 245â€‹â€‹ 2,469â€‹â€‹ 509â€‹Capitalized interestâ€‹â€‹ (157)â€‹â€‹ â€"â€‹â€‹ (428)â€‹â€‹ â€"â€‹Total interest expense related to debtâ€‹$ 6,373â€‹$ 3,773â€‹$ 20,444â€‹$ 9,327â€‹â€‹Credit AgreementOur credit agreement dated as of September 10, 2019, as amended (the â€œCredit Agreementâ€) consist of a senior unsecured term loan facility (â€œTerm Loan Facilityâ€) and a senior unsecured revolving facility (â€œRevolving Facilityâ€), both maturing on September 9, 2026. On September 9, 2024, we entered into an amendment to the Credit Agreement to increase the capacity on the Revolving Facility from $200.0 million to $600.0 million. This amendment was in connection with the concurrent prepayment, using existing cash on hand, of the full $345.0 million outstanding principal balance under our Term Loan Facility.For all periods presented, no amounts were outstanding on the Revolving Facility. The following table summarizes our availability to withdraw on the Revolving Facility: â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Available capacity on Revolving Facilityâ€‹$ 600,000â€‹$ 200,000â€‹In addition to our available capacity on the Revolving Facility, prior to the maturity date of the Credit Agreement, we may request an increase to the financing commitments in either the Term Loan Facility or Revolving Facility by an aggregate amount not to exceed $250.0 million. Any requested increase is subject to lender approval.â€‹The interest rate swap contracts previously entered into relative to the Term Loan Facility expired on September 10, 2024. Should we have future borrowings under the Term Loan Facility or Revolving Facility, they will bear interest, at our option, at a rate based on the Base Rate or SOFR, as defined in the Credit Agreement, plus an applicable margin. Convertible Senior Notes due 2028On September 12, 2023, we completed a private, unregistered offering of $575.0 million aggregate principal amount of 2.50% convertible senior notes due 2028 (â€œConvertible Notesâ€). 23 Table of ContentsADVANCED ENERGY INDUSTRIES, INC.NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS â€" (Continued)(In thousands, except per share data)â€‹The $564.0 million remaining outstanding principal amount of the Convertible Notes, net of unamortized issuance costs, continues to be classified as long-term debt as none of the conversion triggers occurred as of September 30, 2024. The redemption price is 100% of the principal amount plus accrued and unpaid interest. The Convertible Notes mature on September 15, 2028, unless earlier repurchased, redeemed, or converted. Interest is payable semi-annually in arrears in March and September. Concurrent with the Convertible Notes issuance, we entered into hedges and sold warrants with respect to our common stock. In combination, the hedges and warrants synthetically increase the initial conversion price on the Convertible Notes from $137.46 to $179.76, reducing the potential dilutive effect.We use level 2 measurements to estimate the fair value of our debt. As of September 30, 2024, we estimate the fair value of our Convertible Notes to be $598.2 million.â€‹NOTE 17. SUPPLEMENTAL CASH FLOW INFORMATION AND OTHER DISCLOSURESCertain of our cash and non-cash activities were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹2024Â Â Â Â 2023â€‹Non-cash investing activities:â€‹â€‹â€‹â€‹â€‹â€‹â€‹Capital expenditures in accounts payable and other accrued expensesâ€‹$ 7,200â€‹$ 7,699â€‹Cash paid for:â€‹â€‹â€‹â€‹â€‹â€‹â€‹Interest expenseâ€‹$ 17,975â€‹$ 8,060â€‹Income taxesâ€‹$ 29,041â€‹$ 45,040â€‹Cash received from income taxesâ€‹$ 1,627â€‹$ 828â€‹Depreciation expenseâ€‹$ 31,305â€‹$ 28,578â€‹â€‹â€‹â€‹â€‹â€‹24 Table of Contents ITEMÂ 2.Â Â Â Â Â Â Â MANAGEMENTâ€™S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONSThis management discussion and analysis should be read in conjunction with our Annual Report on Form 10-K for the year ended December 31, 2023, which was filed with the Securities and Exchange Commission (the â€œSECâ€) on February 20, 2024 (the â€œ2023 Form 10-Kâ€).Special NoteÂ on Forward-Looking StatementsThis Quarterly Report on Form 10-Q (this â€œreportâ€) contains, in addition to historical information, forward-looking statements within the meaning of SectionÂ 27A of the Securities Act of 1933, as amended, and SectionÂ 21E of the Securities Exchange Act of 1934, as amended (the â€œExchange Actâ€). Statements in this report that are not historical information are forward-looking statements. For example, statements relating to our beliefs, expectations, and plans are forward-looking statements, as are statements that certain actions, conditions, events, or circumstances will continue. The inclusion of words such as â€œanticipate,â€ â€œexpect,â€ â€œestimate,â€ â€œcan,â€ â€œmay,â€ â€œmight,â€ â€œcontinue,â€ â€œenable,â€ â€œplan,â€ â€œintend,â€ â€œshould,â€ â€œcould,â€ â€œwould,â€ â€œwill,â€ â€œlikely,â€ â€œpotential,â€ â€œbelieve,â€ and similar expressions and the negative versions thereof indicate forward-looking statements; however, not all forward-looking statements may contain such words or expressions. These forward-looking statements are based upon information available as of the date of this report and managementâ€™s current estimates, forecasts, and assumptions. Although we believe that our expectations reflected in or suggested by these forward-looking statements are reasonable, we may not achieve the results, performance, plans, or objectives expressed or implied by such forward-looking statements.Â Forward-looking statements involve risks and uncertainties, which are difficult to predict and many of which are beyond our control. Risks and uncertainties to which our forward-looking statements are subject include: â—volatility and business fluctuations in the industries in which we compete;â—our ability to achieve design wins with new and existing customers;â—our ability to accurately forecast and meet customer demand;â—risks related to global economic conditions, such as the impact of escalating global conflicts on macroeconomic conditions, economic uncertainty, market volatility, rising interest rates, inflation, or recession;â—risks inherent in our international operations, including the effect of trade and export controls, political and geographical risks, the impact of tariffs on our supply or products, and fluctuations in currency exchange rates;â—concentration of our customer base;â—risks associated with breach of our information security measures;â—our loss of or inability to attract and retain key personnel;â—disruptions to our manufacturing operations or those of our customers or suppliers;â—risks associated with our manufacturing footprint optimization and movement of manufacturing locations for certain products;â—our ability to successfully identify, close, integrate and realize anticipated benefits from our acquisitions;â—quality issues or unanticipated costs in fulfilling our warranty obligations (including our discontinued solar inverter product line), and adequacy of our warranty reserves;â—our ability to enforce, protect and maintain our proprietary technology and intellectual property rights;â—our ability to achieve cost savings, profitability, and gross margin goals;â—changes to tax laws and regulations or our tax rates;25 Table of Contentsâ—changes in federal, state, local and foreign regulations, including with respect to privacy and data protection, and environmental regulation;â—effect of our debt obligations and restrictive covenants on our ability to operate our business;â—customer price sensitivity; â—risks related to our unfunded pension obligations;â—restructuring and severance activities;â—legal matters, claims, investigations, and proceedings;â—our estimates of the fair value of intangible assets; andâ—the potential impact of dilution related to our convertible debt, hedge, and warrant transactions.Actual results could differ materially and adversely from those expressed in any forward-looking statements, and readers are cautioned not to place undue reliance on forward-looking statements. Factors that could contribute to these differences or prove our forward-looking statements, by hindsight, to be overly optimistic or unachievable include, but are not limited to, the risks and uncertainties listed above and described in Part I, Item 1A in the 2023 Form 10-K. We assume no obligation to update any forward-looking statement or provide the reasons why our actual results might differ.â€‹â€‹26 Table of ContentsBUSINESS AND MARKET OVERVIEWCompany OverviewAdvanced Energy provides highly engineered, critical, precision power conversion, measurement, and control solutions to our global customers. We design, manufacture, sell and support precision power products that transform, refine, and modify the raw electrical power coming from either the utility or the building facility and convert it into various types of highly controllable, usable power that is predictable, repeatable, and customizable to meet the necessary requirements for powering a wide range of complex equipment. Many of our products enable customers to reduce or optimize their energy consumption through increased power conversion efficiency, power density, power coupling, and process control across a wide range of applications. We are organized on a global, functional basis and operate as a single segment of power electronics conversion products. Within this segment, our products are sold into the Semiconductor Equipment, Industrial and Medical, Data Center Computing, and Telecom and Networking markets. Recent EventsAirity AcquisitionOn June 20, 2024, we acquired Airity Technologies, Inc. (â€œAirityâ€), which is based in Redwood City, California. This acquisition adds high voltage power conversion technologies and products, which broadens our range of targeted applications within our Semiconductor Equipment and Industrial and Medical markets. SeeÂ Note 2. Acquisitions in PartÂ I, ItemÂ 1Â â€œUnaudited Consolidated Financial Statements.â€ 2024 Restructuring PlanIn July 2024, we approved further manufacturing consolidation initiatives, including the previously announced closure of our Zhongshan, China facility. In connection with the 2024 Plan, we recorded a $28.5 million charge primarily associated with expected employment-related charges and facility exit costs. We expect to incur $1.0 million to $2.0 million in additional charges related to our announced actions and continue to evaluate our operations and cost structure, which could result in incremental restructuring charges in future periods. For additional information, seeÂ Note 11. Restructuring, Asset Impairments, and Other Charges in PartÂ I, ItemÂ 1Â â€œUnaudited Consolidated Financial Statements.â€Credit Agreement AmendmentOn September 9, 2024, we used existing cash on hand to prepay the full $345.0 million outstanding principal balance under our Term Loan Facility. As of September 30, 2024, our only outstanding debt is the Convertible Notes due in 2028. On the same date, we entered into an additional amendment to the Credit Agreement to increase the capacity on the Revolving Facility from $200.0 million to $600.0 million. See Note 16. Long-Term Debt in Part I, Item 1 â€œUnaudited Consolidated Financial Statementsâ€ for additional information. Product and ServicesOur precision power products and solutions are designed to enable new process technologies, improve productivity, lower the cost of ownership, and provide critical power capabilities for our customers. These products are designed to meet our customersâ€™ demanding requirements in efficiency, flexibility, performance, and reliability. We also provide repair and maintenance services for our products. Our plasma power products offer solutions to enable innovation in complex semiconductor and thin film plasma processes such as dry etch and deposition. Our broad portfolio of high and low voltage power products is used in a wide range of applications, such as semiconductor equipment, industrial production, medical and life science equipment, data center computing, networking, and telecommunications. We also supply related sensing, controls, and instrumentation products primarily for advanced measurement and calibration of power and temperature for multiple industrial markets. 27 Table of ContentsOur network of global service support centers provides repair services, calibration, conversions, upgrades, refurbishments, and used equipment to companies that use our products. End Markets Summary The demand environment in each of our markets is impacted by macroeconomic conditions, various market trends, customer buying patterns, design wins, and other factors. Although we are currently experiencing a lower demand environment in certain markets, we continue to believe that the long-term market growth drivers support our long-term strategy, research and development efforts, and capital investments. However, in the short-term it is unclear how certain macroeconomic conditions, including the effect of higher interest rates impacting end customersâ€™ capital investment, the timing of inventory digestion, and customer buying patterns, will affect customer demand and our revenue. Semiconductor Equipment MarketThe Semiconductor Equipment market is slowly recovering from a cyclical downturn, which began in the fourth quarter of 2022. Since the market bottomed in 2023, demand had modestly recovered in the first nine months of 2024, but a number of external factors continued to limit the market, including unfavorable macroeconomic conditions, prolonged weak demand for consumer electronics, low fab utilization, and U.S. export restrictions to China. We continue to believe the long-term growth drivers will support cyclical growth for this market as more manufacturing capacity is needed to support increasing demand for semiconductor devices and related capital equipment. Industrial and Medical Market Beginning in the second half of 2023, the impact of weaker macroeconomic conditions started to impact demand for our products in the Industrial and Medical Market. In addition, in the first nine months of 2024, elevated inventory levels of our products following the supply chain crisis and extended lead times resulted in high levels of inventory rebalancing by our customers. We expect these factors will continue to limit our revenue levels in the near term, but we believe the long-term growth drivers will enable growth to return to this market after end markets recover and our customer inventories return to normal levels. â€‹Data Center Computing MarketThe Data Center Computing Market experienced weak demand starting in the first quarter of 2023 and continued until the first quarter of 2024, driven by reduced investments of our hyperscale customers, lower demand for Enterprise systems and the timing impact of large customer orders on our revenues. Starting in the second quarter of 2024, demand rebounded from both our hyperscale and enterprise customers, driven by accelerated investments in artificial intelligence and improved demand in the traditional server market, which we expect to continue for several quarters.Telecom and Networking MarketStarting in 2023, leading companies in both the telecom and networking markets reported weakening demand. However, improved supply of critical components in 2023 drove higher customer orders and more than offset weakening market conditions, which continued in 2024. As end demand softens and customers rebalance their elevated inventory levels of our products, demand for our products declined meaningfully in the first nine months of 2024, which we expect to continue for several quarters. â€‹â€‹28 Table of ContentsResults of Continuing OperationsThe analysis presented below is organized to provide the information we believe will be helpful for an understanding of our historical performance and relevant trends going forward and should be read in conjunction with our â€œUnaudited Consolidated Financial Statementsâ€ in PartÂ I, ItemÂ 1 of this report, including the notes thereto. Also included in the following analysis are measures that are not prepared in accordance with accounting principles generally accepted in the United States of America (â€œU.S. GAAPâ€). A reconciliation of the non-GAAP measures to U.S. GAAP is provided below.The following table sets forth certain data derived from our Consolidated Statements of Operations (in thousands):â€‹Three Months Ended SeptemberÂ 30,Â Â Â Â Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹2024â€‹â€‹2023â€‹â€‹2024â€‹â€‹2023Â Â RevenueÂ Â $ 374,217Â Â Â Â 100.0%Â Â $ 409,991Â Â 100.0%Â Â $ 1,066,639Â Â 100.0%Â Â $ 1,250,539Â Â 100.0%Gross profitâ€‹Â 134,068â€‹ 35.8â€‹â€‹Â 147,341â€‹ 35.9â€‹â€‹Â 374,638â€‹ 35.1â€‹â€‹Â 449,532â€‹ 35.9â€‹Operating expensesâ€‹Â 145,116â€‹ 38.8â€‹â€‹Â 117,280â€‹ 28.6â€‹â€‹Â 372,041â€‹ 34.9â€‹â€‹Â 349,608â€‹ 28.0â€‹Operating income (loss) from continuing operationsâ€‹Â (11,048)â€‹ (3.0)â€‹â€‹Â 30,061â€‹ 7.3â€‹â€‹Â 2,597â€‹ 0.2â€‹â€‹Â 99,924â€‹ 8.0â€‹Interest incomeâ€‹â€‹ 11,018â€‹ 2.9â€‹â€‹â€‹ 6,396â€‹ 1.6â€‹â€‹â€‹ 35,782â€‹ 3.4â€‹â€‹â€‹ 14,282â€‹ 1.1â€‹Interest expenseâ€‹â€‹ (6,378)â€‹ (1.7)â€‹â€‹â€‹ (3,780)â€‹ (0.9)â€‹â€‹â€‹ (20,461)â€‹ (1.9)â€‹â€‹â€‹ (9,368)â€‹ (0.7)â€‹Other income (expense), netâ€‹Â (8,139)â€‹ (2.2)â€‹â€‹Â 1,848â€‹ 0.5â€‹â€‹Â (6,122)â€‹ (0.6)â€‹â€‹Â 1,425â€‹ 0.1â€‹Income (loss) from continuing operations, beforeÂ income taxâ€‹Â (14,547)â€‹ (3.9)â€‹â€‹Â 34,525â€‹ 8.4â€‹â€‹Â 11,796â€‹ 1.1â€‹â€‹Â 106,263â€‹ 8.5â€‹Income tax provision (benefit)â€‹Â (400)â€‹ (0.1)â€‹â€‹Â 874â€‹ 0.2â€‹â€‹Â 4,552â€‹ 0.4â€‹â€‹Â 13,405â€‹ 1.1â€‹Income (loss) from continuing operationsâ€‹$ (14,147)â€‹ (3.8)%â€‹$ 33,651â€‹ 8.2%â€‹$ 7,244â€‹ 0.7%â€‹$ 92,858â€‹ 7.4%â€‹29 Table of ContentsRevenueThe following tables summarize net sales andÂ percentages of net sales, by markets (in thousands):â€‹Three Months Ended SeptemberÂ 30,Â â€‹â€‹Change 2024 v. 2023â€‹â€‹Â Â Â Â 2024â€‹Â Â Â Â 2023Â Â Â Â Â DollarÂ Â Â Â Percentâ€‹Semiconductor Equipmentâ€‹$ 197,497Â Â Â Â 52.8%â€‹$ 185,033Â Â Â Â 45.1%â€‹$ 12,464Â 6.7%Industrial and Medicalâ€‹Â 76,837â€‹ 20.5â€‹â€‹Â 115,226â€‹ 28.1â€‹â€‹Â (38,389)Â (33.3)%Data Center Computingâ€‹â€‹ 80,653â€‹ 21.6â€‹â€‹â€‹ 68,286â€‹ 16.7â€‹â€‹â€‹ 12,367â€‹ 18.1%Telecom and Networkingâ€‹Â 19,230â€‹ 5.1â€‹â€‹Â 41,446â€‹ 10.1â€‹â€‹Â (22,216)Â (53.6)%Totalâ€‹$ 374,217â€‹ 100.0%â€‹$ 409,991â€‹ 100.0%â€‹$ (35,774)Â (8.7)%â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Change 2024 v. 2023â€‹â€‹â€‹2024â€‹Â Â Â Â 2023Â Â Â Â DollarÂ Â Â Â Percentâ€‹Semiconductor Equipmentâ€‹$ 565,721Â Â Â Â 53.0%â€‹$ 552,419Â Â Â Â 44.2%â€‹$ 13,302Â 2.4%Industrial and Medicalâ€‹Â 239,359â€‹ 22.4â€‹â€‹Â 365,849â€‹ 29.3â€‹â€‹Â (126,490)Â (34.6)%Data Center Computingâ€‹â€‹ 195,519â€‹ 18.3â€‹â€‹â€‹ 187,021â€‹ 15.0â€‹â€‹â€‹ 8,498Â 4.5%Telecom and Networkingâ€‹Â 66,040â€‹ 6.3â€‹â€‹Â 145,250â€‹ 11.5â€‹â€‹Â (79,210)Â (54.5)%Totalâ€‹$ 1,066,639â€‹ 100.0%â€‹$ 1,250,539â€‹ 100.0%â€‹$ (183,900)Â (14.7)%â€‹Total revenues in the three month period decreased from the same period in the prior year due to customer inventory rebalancing, resulting in lower demand in our Industrial and Medical and Telecom and Networking markets. This offset a modest revenue recovery in the Semiconductor Equipment market from the trough level a year ago and a demand recovery in the Data Center Computing market. Total revenues in the nine month period decreased from the same periods in the prior year due primarily to customer inventory rebalancing, resulting in lower demand in our Industrial and Medical and Telecom and Networking markets. The Semiconductor Equipment market modestly recovered from the cyclical trough in 2023, and revenue in the Data Center Computing market was impacted by weak demand in the first quarter followed by a rebound beginning in the second and third quarter driven by investments in artificial intelligence.â€‹30 Table of ContentsRevenue by Marketâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Semiconductor Equipmentâ€‹$ 197,497â€‹$ 185,033â€‹$ 12,464Â 6.7%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹â€‹2024Â Â Â Â 2023Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Semiconductor Equipmentâ€‹$ 565,721â€‹$ 552,419â€‹$ 13,302Â 2.4%â€‹The increase in Semiconductor Equipment revenue for the three month period was primarily due to improved demand for our products compared to the same period in the prior year. The revenue for the nine month period modestly increased from the cyclical trough in 2023.â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Industrial and Medicalâ€‹$ 76,837â€‹$ 115,226â€‹$ (38,389)Â (33.3)%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹â€‹2024Â Â Â Â 2023Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Industrial and Medicalâ€‹$ 239,359â€‹$ 365,849â€‹$ (126,490)Â (34.6)%â€‹The decrease in Industrial and Medical revenues for both the three and nine month periods was primarily due to lower demand and customers working down their elevated inventories compared to a record year in 2023 and shortened lead times following the supply chain crisis. â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Data Center Computingâ€‹$ 80,653â€‹$ 68,286â€‹$ 12,367Â 18.1%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹â€‹2024Â Â Â Â 2023Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Data Center Computingâ€‹$ 195,519â€‹$ 187,021â€‹$ 8,498Â 4.5%â€‹The increase in Data Center Computing revenue for the three and nine month periods was due to increased hyperscale investments mostly driven by artificial intelligence adoption, and, to a lesser degree, a recovery in demand for traditional enterprise servers. â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Telecom and Networkingâ€‹$ 19,230â€‹$ 41,446â€‹$ (22,216)Â (53.6)%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹â€‹2024Â Â Â Â 2023Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Telecom and Networkingâ€‹$ 66,040â€‹$ 145,250â€‹$ (79,210)Â (54.5)%â€‹31 Table of ContentsThe decrease in Telecom and Networking revenues for both the three and nine month periods was due to the prior year benefit of improved supply of critical components. This enabled fulfillment of outstanding orders in 2023, which did not continue in 2024. In addition, we experienced a slow demand environment and inventory rebalancing from our customers, which we expect to continue. Gross Profit and Gross Marginâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Gross profitâ€‹$ 134,068â€‹$ 147,341â€‹$ (13,273)Â (9.0)%Gross marginâ€‹â€‹ 35.8%â€‹ 35.9%â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹â€‹2024Â Â Â Â 2023Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Gross profitâ€‹$ 374,638â€‹$ 449,532â€‹$ (74,894)â€‹ (16.7)%Gross marginâ€‹â€‹ 35.1%â€‹ 35.9%â€‹â€‹â€‹â€‹â€‹â€‹For both the three and nine month periods, the decrease in gross profit was largely due to the decline in revenue and higher operating costs based on investments made in 2023. Gross margin declined in both periods due to the decline in volume, which drove manufacturing utilization lower. This was partially offset by more favorable product mix, savings realized from our restructuring programs, and lower premiums paid for scarce parts.Operating ExpensesThe following table summarizes our operating expenses (in thousands) and as a percentage of revenue:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024â€‹Â Â 2023â€‹Research and developmentâ€‹$ 53,561Â Â Â Â 14.3%Â Â $ 50,391Â Â Â Â 12.3%Selling, general, and administrativeâ€‹Â 56,237â€‹ 15.0â€‹â€‹Â 55,131â€‹ 13.4â€‹Amortization of intangible assetsâ€‹ â€‹ 6,772â€‹ 1.8â€‹â€‹ â€‹ 7,049â€‹ 1.7â€‹Restructuring, asset impairments, and other chargesâ€‹Â 28,546â€‹ 7.6â€‹â€‹Â 4,709â€‹ 1.1â€‹Total operating expensesâ€‹$ 145,116â€‹ 38.8%Â Â $ 117,280â€‹ 28.6%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024â€‹Â Â 2023â€‹Research and developmentâ€‹$ 155,732Â Â Â Â 14.6%Â Â $ 153,414Â Â Â Â 12.3%Selling, general, and administrativeâ€‹Â 166,374â€‹ 15.6â€‹â€‹Â 166,102â€‹ 13.3â€‹Amortization of intangible assetsâ€‹ â€‹ 20,519â€‹ 1.9â€‹â€‹ â€‹ 21,186â€‹ 1.7â€‹Restructuring, asset impairments, and other chargesâ€‹Â 29,416â€‹ 2.8â€‹â€‹Â 8,906â€‹ 0.7â€‹Total operating expensesâ€‹$ 372,041â€‹ 34.9%Â Â $ 349,608â€‹ 28.0%â€‹â€‹â€‹32 Table of ContentsResearch and Developmentâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Research and developmentâ€‹$ 53,561â€‹$ 50,391â€‹$ 3,170Â 6.3%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹â€‹2024Â Â Â Â 2023Â Â DollarÂ Â Â Â Percentâ€‹â€‹(in thousands)Research and developmentâ€‹$ 155,732â€‹$ 153,414â€‹$ 2,318Â 1.5%â€‹During the three and nine month periods we experienced an increase in R&D related to higher stock-based compensation expense as well as higher program and materials cost compared to the same periods in the prior year. This was partially offset by lower variable compensation cost.Selling, General and Administrativeâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Selling, general, and administrativeâ€‹$ 56,237â€‹$ 55,131â€‹$ 1,106Â 2.0%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹â€‹2024Â Â Â Â 2023Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Selling, general, and administrativeâ€‹$ 166,374â€‹$ 166,102â€‹$ 272Â 0.2%â€‹Selling, general, and administrative expense remained constant due to actions taken to control costs, including headcount reduction and lower variable employee compensation, partially offset by higher stock-based compensation cost. Amortization of Intangibles Assetsâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Amortization of intangible assetsâ€‹$ 6,772â€‹$ 7,049â€‹$ (277)Â (3.9)%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹â€‹2024Â Â Â Â 2023Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Amortization of intangible assetsâ€‹$ 20,519â€‹$ 21,186â€‹$ (667)Â (3.1)%â€‹Amortization expense remained constant. We acquired new intangible assets in the Airity acquisition, but this was offset by certain other intangible assets reaching the end of their estimated useful life. â€‹33 Table of ContentsRestructuring, Asset Impairments and Other Chargesâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Restructuring, asset impairments, and other chargesâ€‹$ 28,546â€‹$ 4,709â€‹$ 23,837Â 506.2%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹â€‹2024Â Â Â Â 2023Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Restructuring, asset impairments, and other chargesâ€‹$ 29,416â€‹$ 8,906â€‹$ 20,510Â 230.3%â€‹The increase in restructuring, asset impairments, and other charges is primarily driven by the timing of our restructuring plan decisions. 2024 PlanIn July 2024, we approved further manufacturing consolidation initiatives, including the previously announced closure of our Zhongshan, China facility. In connection with the 2024 Plan, we recorded a $28.5 million charge primarily associated with expected employment-related charges and facility exit costs. We expect to incur $1.0 million to $2.0 million in additional charges related to our announced actions and continue to evaluate our operations and cost structure, which could result in incremental restructuring charges in future periods. For additional information about this and prior year restructuring plans, seeÂ Note 11. Restructuring, Asset Impairments, and Other Charges in PartÂ I, ItemÂ 1Â â€œUnaudited Consolidated Financial Statements.â€â€‹34 Table of ContentsInterest Income, Interest Expense, and Other Income (Expenses), net â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Interest incomeâ€‹$ 11,018â€‹$ 6,396â€‹$ 4,622Â 72.3%Interest expenseâ€‹$ (6,378)â€‹$ (3,780)â€‹$ (2,598)Â 68.7%Other income (expense), netâ€‹$ (8,139)â€‹$ 1,848â€‹$ (9,987)Â 540.4%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Change 2024 v. 2023â€‹â€‹â€‹2024Â Â Â Â 2023Â Â DollarÂ Â Â Â Percentâ€‹â€‹â€‹(in thousands)Interest incomeâ€‹$ 35,782â€‹$ 14,282â€‹$ 21,500Â 150.5%Interest expenseâ€‹$ (20,461)â€‹$ (9,368)â€‹$ (11,093)Â 118.4%Other income (expense), netâ€‹$ (6,122)â€‹$ 1,425â€‹$ (7,547)Â 529.6%â€‹We experienced an increase in interest income on higher cash balances, due in part to proceeds from the issuance of the Convertible Notes in the third quarter of 2023, our ability to concentrate cash in investment accounts, and higher short term market interest rates.Interest expense increased due to interest associated with the Convertible Notes and a higher interest rate on the portion of our Term Loan Facility subject to a variable interest rate. We prepaid in full the Term Loan Facility on September 9, 2024, and the interest rate swap contracts expired on September 10, 2024. Should we have future borrowings under our Term Loan Facility or Revolving Facility, those borrowings would be subject to a variable rate.See Note 16. Long-Term Debt in Part I, Item 1 â€œUnaudited Consolidated Financial Statementsâ€ for information regarding our debt.Other income (expense), net consists primarily of foreign exchange gains and losses and other miscellaneous items. We had unrealized foreign exchange losses during the three and nine months ended September 30, 2024 compared to unrealized gains in the same periods in the prior year. Additionally, during the three months ended September 30, 2024, we incurred costs associated with foreign currency translation adjustments related to liquidated foreign operations and debt discount and fees associated with our Term Loan Facility prepayment. There were no such costs during the same periods in the prior year. â€‹â€‹35 Table of ContentsIncome TaxThe following table summarizes tax provision (benefit) (in thousands) and the effective tax rate for our income from continuing operations:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023â€‹Income (loss) from continuing operations, before income taxâ€‹$ (14,547)â€‹$ 34,525â€‹$ 11,796â€‹$ 106,263â€‹Income tax provision (benefit)â€‹$ (400)â€‹$ 874â€‹$ 4,552â€‹$ 13,405â€‹Effective tax rateâ€‹â€‹ (2.7)%â€‹ 2.5%â€‹ 38.6%â€‹ 12.6%â€‹Our effective tax rates differ from the U.S. federal statutory rate of 21% primarily due to the benefit of earnings in foreign jurisdictions which are subject to lower tax rates, as well as tax credits, partially offset by net U.S. tax on foreign operations. â€‹The previously announced Zhongshan, China factory closure impacted our effective tax rate in both the three and nine months ended September 30, 2024. For the nine months ended September 30, 2024, our effective tax rate was higher than the same period in the prior year due to smaller beneficial discrete items in the current period relative to the larger beneficial discrete items in the prior period.â€‹As of January 1, 2024, the Pillar II minimum global effective tax rate of 15% enacted by the Organization for Economic Cooperation and Development (â€œOECDâ€) was effectuated. More than 140 countries agreed to enact the Pillar II global minimum tax. However, the timing of the implementation for each country varies. To date, we have determined that there was an immaterial global minimum tax liability as a result of Pillar II, as certain tax jurisdictions either will not have Pillar II enacted until after December 31, 2024 or satisfied the safe harbor test to prevent any minimum tax under Pillar II. We continue to monitor the jurisdictions for any changes and include any appropriate minimum tax throughout the year.â€‹36 Table of ContentsNon-GAAP ResultsManagement uses non-GAAP operating income and non-GAAP earnings per share (â€œEPSâ€) to evaluate business performance without the impacts of certain non-cash charges and other charges which are not part of our usual operations. We use these non-GAAP measures to assess performance against business objectives and make business decisions, including developing budgets and forecasting future periods. In addition, managementâ€™s incentive plans include these non-GAAP measures as criteria for achievements. These non-GAAP measures are not prepared in accordance with U.S. GAAP and may differ from non-GAAP methods of accounting and reporting used by other companies. However, we believe these non-GAAP measures provide additional information that enables readers to evaluate our business from the perspective of management. The presentation of this additional information should not be considered a substitute for results prepared in accordance with U.S. GAAP.The non-GAAP results presented below exclude the impact of non-cash related charges, such as stock-based compensation, amortization of intangible assets, and long-term unrealized foreign exchange gains and losses. In addition, we exclude discontinued operations and other non-recurring items such as acquisition-related costs, facility expansion and related costs, and restructuring expenses, as they are not indicative of future performance. The tax effect of our non-GAAP adjustments represents the anticipated annual tax rate applied to each non-GAAP adjustment after consideration of their respective book and tax treatments.â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Reconciliation of non-GAAP measure â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Operating expenses and operating income from continuingâ€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹operations, excluding certain items (in thousands)Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â Gross profit from continuing operations, as reportedâ€‹$ 134,068â€‹$ 147,341â€‹$ 374,638â€‹$ 449,532â€‹Adjustments to gross profit:â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â â€‹Stock-based compensationâ€‹Â 1,046â€‹Â 615â€‹Â 2,931â€‹Â 1,587â€‹Facility expansion, relocation costs and otherâ€‹Â 868â€‹Â 171â€‹Â 2,337â€‹Â 1,188â€‹Acquisition-related costsâ€‹â€‹ â€”â€‹â€‹ 44â€‹â€‹ (13)â€‹â€‹ 194â€‹Non-GAAP gross profitâ€‹Â 135,982â€‹Â 148,171â€‹â€‹ 379,893â€‹â€‹ 452,501â€‹Non-GAAP gross marginâ€‹â€‹36.3%â€‹Â 36.1%â€‹Â 35.6%â€‹Â 36.2%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Operating expenses from continuing operations, as reportedâ€‹Â

145,116â€‹Â 117,280â€‹â€‹ 372,041â€‹â€‹ 349,608â€‹Adjustments:â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â â€‹Amortization of intangible assetsâ€‹Â (6,772)â€‹Â (7,049)â€‹Â (20,519)â€‹Â (21,186)â€‹Stock-based compensationâ€‹Â (10,868)â€‹Â (7,460)â€‹Â (31,372)â€‹Â (21,226)â€‹Acquisition-related costsâ€‹Â (1,581)â€‹Â (611)â€‹Â (4,781)â€‹Â (2,654)â€‹Facility expansion, relocation costs and otherâ€‹Â (488)â€‹Â â€”â€‹Â (488)â€‹Â â€”â€‹Restructuring, asset impairments, and other chargesâ€‹Â (28,546)â€‹Â (4,898)â€‹Â (29,416)â€‹Â (9,095)â€‹Non-GAAP operating expensesâ€‹Â 96,861â€‹Â 97,262â€‹Â 285,465â€‹Â 295,447â€‹Non-GAAP operating incomeâ€‹$ 39,121â€‹$ 50,909â€‹$ 94,428â€‹$ 157,054â€‹Non-GAAP operating marginâ€‹â€‹10.5%â€‹Â 12.4%â€‹Â 8.9%â€‹Â 12.6%â€‹â€‹37 Table of Contentsâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Reconciliation of non-GAAP measureâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Income from continuing operations, excluding certain itemsâ€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹(in thousands, except per share amounts)Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023â€‹Income (loss) from continuing operations, less non-controlling interest, net of income taxâ€‹$ (14,147)â€‹$ 33,651â€‹$ 7,244â€‹$ 92,858â€‹Adjustments:â€‹Â â€‹â€‹Â â€‹â€‹Â Â Â â€‹Â Â Â â€‹Amortization of intangible assetsâ€‹Â 6,772â€‹Â 7,049â€‹Â 20,519â€‹Â 21,186â€‹Acquisition-related costsâ€‹Â 1,581â€‹Â 655â€‹Â 4,768â€‹Â 2,848â€‹Facility expansion, relocation costs, and otherâ€‹Â 1,356â€‹Â 171â€‹Â 2,825â€‹Â 1,188â€‹Restructuring, asset impairments, and other chargesâ€‹Â 28,546â€‹Â 4,898â€‹Â 29,416â€‹Â 9,095â€‹Unrealized foreign currency loss (gain)â€‹â€‹ 3,993â€‹â€‹ (1,604)â€‹â€‹ 691â€‹â€‹ (2,817)â€‹Other costs included in other income (expense), netâ€‹â€‹ 3,665â€‹â€‹ (1,516)â€‹â€‹ 3,665â€‹â€‹ (1,516)â€‹Tax effect of non-GAAP adjustments, including certain discrete tax benefits â€‹Â (4,172)â€‹â€‹ (1,101)â€‹â€‹ (5,292)â€‹â€‹ (3,273)â€‹Non-GAAP income, net of income tax, excluding stock-based compensationâ€‹â€‹ 27,594â€‹â€‹ 42,203â€‹â€‹ 63,836â€‹â€‹ 119,569â€‹Stock-based compensation, net of taxâ€‹â€‹ 9,412â€‹â€‹ 6,299â€‹â€‹ 27,099â€‹â€‹ 17,794â€‹Non-GAAP income, net of income taxâ€‹$ 37,006â€‹$ 48,502â€‹$ 90,935â€‹$ 137,363â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Reconciliation of non-GAAP measureâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Weighted-average common shares adjusted for stock awardsâ€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹(in thousands)â€‹2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023â€‹Diluted weighted-average common shares outstandingâ€‹â€‹ 37,532â€‹â€‹ 37,854â€‹â€‹ 37,785â€‹â€‹ 37,842â€‹Dilutive effect of stock awardsâ€‹â€‹ 360â€‹â€‹ -â€‹â€‹ -â€‹â€‹ -â€‹Non-GAAP diluted weighted-average common shares outstandingâ€‹â€‹ 37,892â€‹â€‹ 37,854â€‹â€‹ 37,785â€‹â€‹ 37,842â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Reconciliation of non-GAAP measureâ€‹Three Months Ended SeptemberÂ 30,Â Â Nine Months Ended SeptemberÂ 30,Â Per share earnings excluding certain itemsÂ Â Â Â 2024Â Â Â Â 2023Â 2024Â Â Â Â 2023Diluted earnings (loss) per share from continuing operations, as reportedâ€‹$ (0.38)â€‹$ 0.89Â $ 0.19â€‹$ 2.45Add back:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Per share impact of non-GAAP adjustments, net of taxÂ â€‹ 1.36Â â€‹ 0.39â€‹â€‹ 2.22â€‹â€‹ 1.18Non-GAAP earnings per shareâ€‹$ 0.98â€‹$ 1.28â€‹$ 2.41â€‹$ 3.63â€‹Liquidity and Capital ResourcesLiquidityAdequate liquidity and cash generation is important to the execution of our strategic initiatives. Our ability to fund our operations, acquisitions, capital expenditures, and product development efforts may depend on our ability to generate cash from operating activities, which is subject to future operating performance, as well as general economic, financial, competitive, legislative, regulatory, and other conditions, some of which may be beyond our control. Our primary sources of liquidity continue to be our available cash, cash generated from operations, and available borrowing capacity under the Revolving Facility (defined in Note 16. Long-Term Debt in Part I, Item 1 â€œUnaudited Consolidated Financial Statementsâ€).38 Table of ContentsAs of September 30, 2024, our cash and cash equivalents totaled $657.3 million, while our available funding under our Revolving Facility was $600.0 million. Additionally, we generated $50.3 million of cash flow from continuing operations in the nine months ended September 30, 2024. We believe our sources of liquidity will be adequate to meet anticipated debt service, share repurchase programs, and dividends. During the ordinary course of business, we evaluate our cash requirements and, if necessary, adjust our expenditures to reflect the current market conditions and our projected revenue and demand. Our capital expenditures are primarily directed towards manufacturing and operations and can materially influence our available cash for other initiatives.In addition, we may seek additional debt or equity financing from time to time; however, such additional financing may not be available on acceptable terms, if at all.DebtOn September 9, 2024, we used existing cash on hand to prepay the full $345.0 million outstanding principal balance under our Term Loan Facility. On the same date, we entered into an additional amendment to the Credit Agreement to increase the capacity on the Revolving Facility from $200.0 million to $600.0 million. As of September 30, 2024, our only outstanding debt is the $575.0 million Convertible Notes, which mature on September 15, 2028 and carry a 2.5% interest rate.See Note 16. Long-Term Debt in Part I, Item 1 â€œUnaudited Consolidated Financial Statementsâ€ for additional information.The interest rate swap contracts previously entered into related to the Term Loan Facility expired on September 10, 2024. Should we have future borrowings under our Term Loan Facility or Revolving Facility, those borrowings would be subject to a variable rate.As of September 30, 2024, no amounts were outstanding under the Revolving Facility, and we had $600.0 million in available funding. In addition to the available capacity on the Revolving Facility, prior to the maturity date of our Credit Agreement, we may request an increase to the financing commitments in either the Term Loan Facility or Revolving Facility by an aggregate amount not to exceed $250.0 million. Any requested increase is subject to lender approval.For more information see NoteÂ 16. Long-Term Debt in PartÂ I, ItemÂ 1 â€œUnaudited Consolidated Financial Statements.â€ DividendsDuring the nine months ended September 30, 2024, we paid quarterly cash dividends of $0.10 per share, totaling $11.5 million. We currently anticipate that a cash dividend of $0.10 per share will continue to be paid on a quarterly basis, although the declaration of any future cash dividend is at the discretion of the Board of Directors and will depend on our financial condition, results of operations, capital requirements, business conditions, and other factors.39 Table of ContentsCash FlowsA summary of our cash from operating, investing, and financing activities is as follows (in thousands):â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Net cash from operating activities from continuing operationsâ€‹$ 50,250â€‹$ 128,240Net cash used in operating activities from discontinued operationsâ€‹Â (2,191)â€‹Â (3,307)Net cash from operating activitiesâ€‹Â 48,059â€‹Â 124,933Net cash used in investing activities â€‹Â (60,505)â€‹Â (50,229)Net cash used in financing activitiesâ€‹Â (374,433)â€‹Â 454,204Effect of currency translation on cash and cash equivalentsâ€‹Â (389)â€‹Â (1,795)Net change in cash and cash equivalentsâ€‹Â (387,268)â€‹Â 527,113Cash and cash equivalents, beginning of periodâ€‹Â 1,044,556â€‹Â 458,818Cash and cash equivalents, end of periodâ€‹$ 657,288â€‹$ 985,931â€‹Operating ActivitiesNet cash from operating activities from continuing operations for the nine months ended SeptemberÂ 30,Â 2024 was $50.3 million, as compared to $128.2 million for the same period in the prior year. This $77.9 million decrease was primarily due to lower net income from continuing operations. Additionally, during the current year, we had a significant use of cash for inventories due to a strategic inventory buildup as well as lower cash flow from accounts receivable as a result of a decline in revenue. In addition, we had unfavorable changes in accounts payable, accrued expenses, and other liabilities. Investing Activities Net cash used in investing activities for the nine months ended SeptemberÂ 30,Â 2024 was $60.5 million, primarily driven by the following:â—$44.0 million in purchases of property and equipment largely driven by investments in our manufacturing footprint and capacity; â—$13.8 million for the Airity acquisition; andâ—$2.7 million in purchases of investments. Net cash used in investing activities for the nine months ended September 30, 2023 was $50.2 million, primarily driven by the following:â—$46.8 million in purchases of property and equipment largely driven by investments in our manufacturing footprint and capacity; andâ—$3.4 million in purchases of investments.Financing ActivitiesNet cash used in financing activities for the nine months ended SeptemberÂ 30,Â 2024 was $374.4 million and included the following:â—$355.0 million for repayment of long-term debt;40 Table of Contentsâ—$11.5 million for dividend payments; â—$1.8 million for repurchase of common stock; andâ—$6.0 million in net payments related to stock-based award activities. Net cash from financing activities for the nine months ended September 30, 2023 was $454.2 million and included the following:â—$562.0 million net proceeds from issuance of long-term debt;â—$74.9 million proceeds from the sale of Warrants;â—$115.0 million for purchase of Note Hedges;â—$40.0 million for repurchase of common stock;â—$15.0 million for repayment of long-term debt; â—$11.4 million for dividend payments; andâ—$1.3 million in net payments related to stock-based award activities.Effect of Currency Translation on CashDuring the nine months ended September 30, 2024, foreign currency translation had a minimal impact on cash. See â€œForeign Currency Exchange Rate Riskâ€ in PartÂ I, ItemÂ 3 for more information. â€‹Critical Accounting Policies and EstimatesThe preparation of financial statements and related disclosures in conformity with U.S. GAAP requires us to make judgments, assumptions, and estimates that affect the amounts reported in the consolidated financial statements and accompanying notes. NoteÂ 1. Summary of Operations and Significant Accounting Policies and Estimates to the consolidated financial statements in the 2023 FormÂ 10-K describes the significant accounting policies and methods used in the preparation of our consolidated financial statements. Our critical accounting estimates, discussed in the â€œManagementâ€™s Discussion and Analysis of Financial Condition and Results of Operationsâ€ in PartÂ II, ItemÂ 7 of the 2023 Form 10-K, include assessing excess and obsolete inventories, accounting for income taxes, and estimates for the valuation of assets and liabilities acquired in business combinations.Such accounting policies and estimates require significant judgments and assumptions to be used in the preparation of the consolidated financial statements and actual results could differ materially from the amounts reported based on variability in factors affecting these estimates.â€‹â€‹â€‹41 Table of ContentsITEMÂ 3.Â Â Â Â Â Â Â QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISKMarket Risk and Risk ManagementIn the normal course of business, we have exposure to interest rate risk from our investments and the Credit Agreement. We also have exposure to foreign exchange rate risk related to our foreign operations and foreign currency transactions. See â€œRisk Factorsâ€ set forth in PartÂ I, ItemÂ 1A of the 2023 Form 10-K and PartÂ II of this report, for more information about the market risks to which we are exposed. There have been no material changes in our exposure to market risk from December 31, 2023. Foreign Currency Exchange Rate RiskWe are impacted by changes in foreign currency exchange rates through revenue and purchasing transactions when we sell products and purchase materials in currencies different from the currency in which product and manufacturing costs were incurred. Our reported financial results of operations, including the reported value of our assets and liabilities, are also impacted by changes in foreign currency exchange rates. Assets and liabilities of substantially all our subsidiaries outside the U.S. are translated at period end rates of exchange for each reporting period. Operating results and cash flow statements are translated at average rates of exchange during each reporting period. Although these translation changes have no immediate cash impact, the translation changes may impact future borrowing capacity, and overall value of our net assets. The functional currencies of our worldwide facilities primarily include the United States Dollar, Euro, South Korean Won, New Taiwan Dollar, Japanese Yen, Pound Sterling, and Chinese Yuan. We are subject to risks associated with revenue and purchasing activities and costs to operate that are denominated in currencies other than our functional currencies, such as the Singapore Dollar, Malaysian Ringgit, Mexican Peso, Philippine Peso, and Thai Baht. Historically, the impact of changes to these particular exchange rates has not been material to our operating results. From time to time, we may enter into foreign currency exchange rate contracts to hedge against changes in foreign currency exchange rates on assets and liabilities expected to be settled at a future date, including foreign currency, which may be required for a potential foreign acquisition. Market risk arises from the potential adverse effects on the value of derivative instruments that result from a change in foreign currency exchange rates. We may enter into foreign currency forward contracts to manage the exchange rate risk associated with intercompany debt denominated in nonfunctional currencies. We minimize our market risk applicable to foreign currency exchange rate contracts by establishing and monitoring parameters that limit the types and degree of our derivative contract instruments. We enter into derivative contract instruments for risk management purposes only. We do not enter into or issue derivatives for trading or speculative purposes.Interest Rate RiskAt the present time, a change in interest rates does not have an impact upon our future earnings and cash flow because our only outstanding debt is the Convertible Notes, which carry a fixed 2.5% interest rate. However, increases in interest rates could impact the decision to borrow under our Credit Agreement, ability to refinance existing maturities, and acquire additional debt on favorable terms.â€‹For more information see NoteÂ 16. Long-Term Debt in PartÂ I, ItemÂ 1 â€œUnaudited Consolidated Financial Statements.â€ â€‹42 Table of ContentsITEMÂ 4.Â Â Â Â Â Â Â CONTROLS AND PROCEDURESEvaluation of Disclosure Controls and ProceduresWe have established disclosure controls and procedures, which are designed to ensure that information required to be disclosed in reports filed or submitted under the Exchange Act is recorded, processed, summarized, and reported, within the time periods specified in the SECâ€™s rulesÂ and forms. These disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed in the reports that we file or submit under the Exchange Act is accumulated and communicated to management, including our Principal Executive Officer (Stephen D. Kelley, President and Chief Executive Officer) and Principal Financial Officer (Paul Oldham, Executive Vice President and Chief Financial Officer), as appropriate, to allow timely decisions regarding required disclosures.As of the end of the period covered by this report, we conducted an evaluation, with the participation of management, including our Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of the disclosure controls and procedures pursuant to the Exchange Act RuleÂ 13a-15(b). Based upon this evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures were effective as of September 30, 2024. The conclusions of the Chief Executive Officer and Chief Financial Officer from this evaluation were communicated to the Audit and Finance Committee. Management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. We intend to continue to review and document our disclosure controls and procedures, including our internal controls over financial reporting, and may from time to time make changes aimed at enhancing their effectiveness and to ensure that our systems evolve with our business. Changes in Internal Control over Financial ReportingOur assessment of the effectiveness of internal control over financial reporting excludes Airity, which we acquired in a business combination on June 20, 2024. SeeÂ Note 2. Acquisitions in PartÂ I, ItemÂ 1Â â€œUnaudited Consolidated Financial Statements.â€ Airityâ€™s total assets and total revenue excluded from managementâ€™s assessment represent less than 1% of the related consolidated financial statement amounts as of September 30, 2024.Aside from the above, there was no change in our internal control over financial reporting that occurred during the quarter covered by this report that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.â€‹PARTÂ II OTHER INFORMATIONITEMÂ 1.Â Â Â Â Â Â Â LEGAL PROCEEDINGSWe are involved in disputes and legal actions arising in the normal course of our business. Although it is not possible to predict the outcome of these matters, we believe that the results of these proceedings will not have a material adverse effect on our financial condition, results of operations, or liquidity.â€‹ITEMÂ 1A.Â Â Â Â Â RISK FACTORS Information concerning our risk factors is contained in Part I, Item 1A, â€œRisk Factorsâ€ in the 2023 Form 10-K. The risks described in the 2023 Form 10-K are not the only risks that we face. Additional risks and uncertainties not currently known to us or that we currently deem to be immaterial also may materially adversely affect our business, financial condition, or operating results. There have been no material changes to the risk factors previously disclosed in the 2023 Form 10-K.43 Table of ContentsITEM 2.Â Â Â Â Â Â Â UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDSâ€‹To repurchase shares of our common stock, we periodically enter into stock repurchase agreements, open market transactions, and/or other transactions in accordance with applicable federal securities laws. Before repurchasing our shares, we consider the market price of our common stock, the nature of other investment opportunities, available liquidity, cash flows from operations, general business and economic conditions, and other relevant factors.The following table summarizes these repurchases during the three months ended September 30, 2024:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹MonthÂ Â Â Â TotalNumberÂ ofSharesPurchasedÂ Â Â Â AveragePriceÂ PaidPerÂ ShareÂ Â Â Â Total Number of Shares Purchased as PartÂ ofÂ PubliclyÂ Announced Plans or ProgramsÂ Â Â Â MaximumDollarValue ofShares thatMayÂ YetÂ bePurchasedUnder thePlans orProgramsâ€‹â€‹(in thousands, except price per share data)July 1 to July 31, 2024â€‹â€‹ â€”â€‹$ â€”â€‹â€‹ â€”â€‹$ 199,192August 1 to August 31, 2024â€‹â€‹ â€”â€‹$ â€”â€‹â€‹ â€”â€‹$ 199,192September 1 to September 30, 2024â€‹â€‹ 19â€‹$ 93.58â€‹â€‹ 19â€‹$ 197,404â€‹At September 30, 2024, the remaining amount authorized by the Board of Directors for future share repurchases was $197.4 million with no time limitation. â€‹ITEM 3.Â Â Â Â Â Â Â DEFAULTS UPON SENIOR SECURITIESNoneâ€‹ITEM 4.Â Â Â Â Â Â Â MINE SAFETY DISCLOSURESNoneâ€‹ITEM 5.Â Â Â Â Â Â Â OTHER INFORMATIONRule 10b5-1 Trading ArrangementsDuring the three months ended September 30, 2024, no director or officer adopted or terminated a â€œRule 10b5-1 trading arrangementâ€ or a â€œNon-Rule 10b5-1 trading arrangementâ€ (as defined in Item 408 of Regulation S-K). 44 Table of ContentsITEMÂ 6.Â Â Â Â Â Â Â EXHIBITSThe exhibits listed in the following index are filed as part of this Quarterly Report on Form 10-Q.â€‹Exhibit â€‹â€‹Incorporated by ReferenceÂ Â Numberâ€‹DescriptionFormFile No.ExhibitFiling Dateâ€‹â€‹â€‹â€‹â€‹â€‹â€‹10.1â€‹Amendment No. 4 to Credit Agreement by and among Advanced Energy Industries, Inc., the guarantors party thereto, Bank of America, NA as the administrative agent, and the lenders party thereto8-K000-2696610.1Sep. 11, 2024â€‹â€‹â€‹â€‹â€‹â€‹â€‹31.1â€‹Certification of the Chief Executive Officer Pursuant to Rule 13a-14(a) under the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.â€‹â€‹â€‹Filed herewithâ€‹â€‹â€‹â€‹â€‹â€‹â€‹31.2â€‹Certification of the Chief Financial Officer Pursuant to Rule 13a-14(a) under the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.â€‹â€‹â€‹Filed herewithâ€‹â€‹â€‹â€‹â€‹â€‹â€‹32.1â€‹Certification of the Chief Executive Officer Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.â€‹â€‹â€‹Filed herewithâ€‹â€‹â€‹â€‹â€‹â€‹â€‹32.2â€‹Certification of the Chief Financial Officer

Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.â€‹â€‹â€‹Filed herewithâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹101.INSâ€‹Inline XBRL Instance Document (The instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document)â€‹â€‹â€‹Filed herewithâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹101.SCHâ€‹Inline XBRL Taxonomy Extension Schema Document.â€‹â€‹â€‹Filed herewithâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹101.CALâ€‹Inline XBRL Taxonomy Extension Calculation Link base Document.â€‹â€‹â€‹Filed herewithâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹101.DEFâ€‹Inline XBRL Taxonomy Extension Definition Link base Document.â€‹â€‹â€‹Filed herewithâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹101.LABâ€‹Inline XBRL Taxonomy Extension Label Link base Document.â€‹â€‹â€‹Filed herewithâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹101.PREâ€‹Inline XBRL Taxonomy Extension Presentation Link base Document.â€‹â€‹â€‹Filed herewithâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹104â€‹Cover Page Interactive Data File (Formatted in Inline XBRL and contained in Exhibit 101)â€‹â€‹â€‹Filed herewithâ€‹â€‹45 Table of ContentsSIGNATURESPursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.â€‹â€‹â€‹â€‹â€‹â€‹ADVANCEDÂ ENERGYÂ INDUSTRIES, INC.â€‹â€‹â€‹Dated: October 30, 2024 /s/ Paul Oldhamâ€‹â€‹Paul Oldhamâ€‹â€‹Chief Financial Officer and Executive Vice Presidentâ€‹â€‹â€‹â€‹â€‹/s/ Bernard R. Colpitts, Jr.â€‹â€‹Bernard R. Colpitts, Jr.â€‹â€‹Chief Accounting Officer and Controllerâ€‹46 EX-31.1 2 aeis-20240930xex31d1.htm EX-31.1 EXHIBIT 31.1â€‹I, Stephen D. Kelley, certify that:â€‹1.I have reviewed this Quarterly Report on Form 10-Q for the period ended September 30, 2024 of Advanced Energy Industries, Inc.;â€‹2.Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;â€‹3.Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;â€‹4.The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:â€‹a.Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;â€‹b.Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;â€‹c.Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; andâ€‹d.Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; andâ€‹5.The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):â€‹a.All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; andâ€‹b.Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.â€‹Date: October 30, 2024 â€‹â€‹â€‹/s/ Stephen D. Kelleyâ€‹Stephen D. Kelleyâ€‹Chief Executive Officerâ€‹ EX-31.2 3 aeis-20240930xex31d2.htm EX-31.2 EXHIBIT 31.2â€‹I, Paul Oldham, certify that:â€‹1.I have reviewed this Quarterly Report on Form 10-Q for the period ended September 30, 2024 of Advanced

Energy Industries, Inc.;â€‹2.Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;â€‹3.Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;â€‹4.The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:â€‹a.Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;â€‹b.Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;â€‹c.Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; andâ€‹d.Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; andâ€‹5.The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):â€‹a.All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; andâ€‹b.Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.â€‹Date: October 30, 2024â€‹â€‹â€‹â€‹/s/ Paul Oldhamâ€‹Paul Oldhamâ€‹Chief Financial Officer and Executive Vice Presidentâ€‹ EX-32.1 4 aeis-20240930xex32d1.htm EX-32.1 EXHIBIT 32.1â€‹Certification of the Chief Executive OfficerPursuant to 18 U.S.C. SectionÂ 1350,as Adopted Pursuant to SectionÂ 906of the Sarbanes-Oxley Act of 2002â€‹I hereby certify, pursuant to 18Â U.S.C. SectionÂ 1350, that the accompanying Quarterly Report on FormÂ 10-Q for the period endedÂ September 30, 2024, of Advanced Energy Industries, Inc., fully complies with the requirements of SectionÂ 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in the Quarterly Report on FormÂ 10-Q fairly presents, in all material respects, the financial condition and results of operations of Advanced Energy Industries, Inc.â€‹Date: October 30, 2024â€‹â€‹â€‹â€‹/s/ Stephen D. Kelleyâ€‹Stephen D. Kelleyâ€‹Chief Executive Officerâ€‹A signed original of this written statement required by SectionÂ 906 has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request. EX-32.2 5 aeis-20240930xex32d2.htm EX-32.2 EXHIBIT 32.2â€‹Certification of the Chief Financial OfficerPursuant to 18 U.S.C. SectionÂ 1350,as Adopted Pursuant to SectionÂ 906of the Sarbanes-Oxley Act of 2002â€‹I hereby certify, pursuant to 18Â U.S.C. SectionÂ 1350, that the accompanying Quarterly Report on FormÂ 10-Q for the period endedÂ September 30, 2024, of Advanced Energy Industries, Inc., fully complies with the requirements of SectionÂ 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in the Quarterly Report on FormÂ 10-Q fairly presents, in all material respects, the financial condition and results of operations of Advanced Energy Industries, Inc.â€‹Date: October 30, 2024â€‹â€‹â€‹â€‹/s/ Paul Oldhamâ€‹Paul Oldhamâ€‹Chief Financial Officer & Executive Vice Presidentâ€‹A signed original of this written statement required by SectionÂ 906 has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request. GRAPHIC 6 aeis-20240930x10q003.jpg GRAPHIC

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M7#>,?A5XELO OP@\:-I_B)=*LM%%3]1&A(T6HV&V25MZ@C*Y60\D8^4@D9S1 MH!]6_#?]K"R\:3>(]'UKPU?^$?&.BVBMS-&BECLL^(1"T-\SV\D1@;"[SC*E0K-S'R% &>
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(4X P@W,>I/>O MMX=*3 6BBBD 4444 %%%% !2$9I:* $Q1CW-+12L F/'-+T32-/BB MLM.39;F10\@YR6+D9))Y)KI0,"EHH **** "BBB@ HHHH **** "BBB@ HHH HH **** "BBB@ HHHH ****
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Deferred revenue represents collections of cash or other assets related to a revenue producing activity for which revenue has not yet been recognized. Generally, an entity records deferred revenue when it receives consideration from a customer before achieving certain criteria that must be met for revenue to be recognized in conformity with GAAP. Customer Deposits And Deferred Revenue Current Customer deposits and other Long-Term Debt, Current Maturities Less: current maturities Current portion of long-term debt Operating Lease, Liability, Current Current portion of operating lease liabilities Liabilities, Current Total current liabilities Long-Term Debt, Excluding Current Maturities Net long-term debt Long-term debt, net Operating Lease, Liability, Noncurrent Operating lease liabilities Liability, Defined Benefit Pension Plan, Noncurrent Pension benefits Other Liabilities, Noncurrent Other long-term liabilities Liabilities Total liabilities Commitment and Contingencies Commitments and contingencies (Note 15) Equity, Attributable to Parent [Abstract] Stockholders' equity: Preferred Stock, Value, Issued Preferred stock, $0.001 par value, 1,000 shares authorized, none issued and outstanding Common Stock, Value, Outstanding Common stock, $0.001 par value, 70,000 shares authorized; 37,671 and 37,318 issued and outstanding at September 30, 2024 and December 31, 2023, respectively Additional Paid in Capital Additional paid-in capital Accumulated Other Comprehensive Income (Loss), Net of Tax Accumulated other comprehensive income Retained Earnings (Accumulated Deficit) Retained earnings Equity, Attributable to Parent Ending Balance Beginning Balance Total stockholders' equity Liabilities and Equity TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY Preferred Stock, Par or Stated Value Per Share Preferred stock, par value (in dollars per share) Preferred Stock, Shares Authorized Preferred stock, shares authorized (in shares) Preferred Stock, Shares Issued Preferred stock, shares issued (in shares) Preferred Stock, Shares Outstanding Preferred stock, shares outstanding (in shares) Common Stock, Par or Stated Value Per Share Common stock, par value (in dollars per share) Common Stock, Shares Authorized Common stock, shares authorized (in shares) Common Stock, Shares, Issued Common stock, shares issued (in shares) Common Stock, Shares, Outstanding Ending Balance (in shares) Beginning Balance (in shares) Common stock, shares outstanding (in shares) Unaudited Consolidated Statements of Operations Revenue from Contract with Customer, Excluding Assessed Tax Revenue Revenue, net Cost of Goods and Services Sold Cost of revenue Gross Profit Gross profit Operating Expenses [Abstract] Operating expenses: Research and Development Expense Research and development Selling, General and Administrative Expense Selling, general, and administrative Amortization of Intangible Assets Amortization of intangible assets Restructuring Costs and Asset Impairment Charges Restructuring, asset impairments, and other charges Total restructuring, asset impairments, and other charges Operating Expenses Total operating expenses Operating Income (Loss) Operating income (loss) Investment Income, Interest Interest income Interest Expense, Operating and Nonoperating Interest expense Other Nonoperating Income (Expense) Other income (expense), net Other income (expense), net Income (Loss) from Continuing Operations before Income Taxes, Noncontrolling Interest Income (loss) from continuing operations, before income tax Income (loss) from continuing operations, before income tax Income Tax Expense (Benefit) Income tax provision (benefit) Income (Loss) from Continuing Operations, Net of Tax, Attributable to Parent Income (loss) from continuing operations Income (Loss) from Discontinued Operations, Net of Tax, Attributable to Parent Loss from discontinued operations, net of income tax Net income (loss) Net income (loss) Weighted Average Number of Shares Outstanding, Basic Basic weighted-average common shares outstanding Basic weighted-average common shares outstanding Weighted Average Number of Shares Outstanding, Diluted Diluted weighted-average common shares outstanding Diluted weighted-average common shares outstanding Earnings Per Share [Abstract] Earnings (loss) per share: Income (Loss) from Continuing Operations, Per Basic Share Basic earnings per share Basic EPS (in dollars per share) Income (Loss) from Continuing Operations, Per Diluted Share Diluted earnings per share Diluted EPS (in dollars per share) Income (Loss) from Discontinued Operations and Disposal of Discontinued Operations, Net of Tax, Per Basic Share Basic loss per share Income (Loss) from Discontinued Operations and Disposal of Discontinued Operations, Net of Tax, Per Diluted Share Diluted loss per share Net Income (Loss) Attributable to Parent [Abstract] Net income (loss): Earnings Per Share, Basic Basic earnings (loss) per share Earnings Per Share, Diluted Diluted earnings (loss) per share Unaudited Consolidated Statements of Comprehensive Income (Loss) Comprehensive Income (Loss), Net of Tax, Attributable to Parent [Abstract] Other comprehensive income (loss), net of income tax Other Comprehensive Income (Loss), Foreign Currency Transaction and Translation Adjustment, Net of Tax Foreign currency translation Other Comprehensive Income (Loss), Cash Flow Hedge, Gain (Loss), after Reclassification and Tax Change in fair value of cash flow hedges Other Comprehensive (Income) Loss, Defined Benefit Plan, before Reclassification Adjustment, after Tax Defined employee benefit plan Comprehensive Income (Loss), Net of Tax, Including Portion Attributable to Noncontrolling Interest Comprehensive income (loss) Unaudited Consolidated Statements of Stockholders' Equity Equity Components [Axis] Equity Component [Domain] Common Stock Additional Paid-in Capital Accumulated Other Comprehensive Income (Loss) Retained Earnings Shares Issued, Value, Share-Based Payment Arrangement, after Forfeiture Stock issued from equity plans Value of shares issued Shares Issued, Shares, Share-Based Payment Arrangement, after Forfeiture Stock issued from equity plans (in shares) Shares issued Stock Issued During Period, Value, Restricted Stock Award, Net of Forfeitures Stock issuance (Note 2. Acquisition) Stock Issued During Period, Shares, Restricted Stock Award, Net of Forfeitures Stock issuance (Note 2. Acquisition) (in shares) APIC, Share-Based Payment Arrangement, Increase for Cost Recognition Stock-based compensation Stock Repurchased and Retired During Period, Value Share repurchases Stock Repurchased and Retired During Period, Shares Share repurchases (in shares) Dividends, Common Stock Dividends declared ($0.10 per share) Other Comprehensive Income (Loss), Net of Tax Other comprehensive income (loss) Amount of warrants and note hedges, net. Warrants And Note Hedges, Net Warrants and note hedges, net Amount of tax impact of convertible notes and note hedges. Tax Impact Of Convertible Notes And Note Hedges Tax impact of convertible notes and note hedges Amount of increase (decrease) to additional paid in capital (APIC) resulting from deferred compensation. Adjustments to Additional Paid in Capital, Deferred Compensation Deferred compensation Net Income (Loss), Including Portion Attributable to Noncontrolling Interest Net income (loss) Net income Common Stock, Dividends, Per Share, Declared Dividends declared (in dollars per share) Unaudited Consolidated Statements of Cash Flows Net Cash Provided by (Used in) Operating Activities [Abstract] CASH FLOWS FROM OPERATING ACTIVITIES: Income (Loss) from Discontinued Operations, Net of Tax, Including Portion Attributable to Noncontrolling Interest Less: loss from discontinued operations, net of income tax Income (Loss) from Continuing Operations, Net of Tax, Including Portion Attributable to Noncontrolling Interest Income from continuing operations, net of income tax Adjustments to Reconcile Net Income (Loss) to Cash Provided by (Used in) Operating Activities [Abstract] Adjustments to reconcile net income to net cash from operating activities: Depreciation, Depletion and Amortization Depreciation and amortization Share-Based Payment Arrangement, Noncash Expense Stock-based compensation Amortization of Debt Issuance Costs and Discounts Amortization and write off of debt issuance costs and debt discount Deferred Income Tax Expense (Benefit) Deferred income tax benefit Other Noncash Income (Expense) Other Increase (Decrease) in Operating Capital [Abstract] Changes in operating assets and liabilities, net of assets acquired Increase (Decrease) in Accounts Receivable Accounts receivable, net Increase (Decrease) in Inventories Inventories Increase (Decrease) in Other Operating Assets Other assets Increase (Decrease) in Accounts Payable Accounts payable The net change in the reporting period in other current liabilities and accrued expenses. This includes the aggregate amount of expenses incurred but not yet paid and customer deposits and deferred revenue. Increase Decrease In Other Current Liabilities And Accrued Expenses Other liabilities and accrued expenses Net Cash Provided by (Used in) Operating Activities, Continuing Operations Net cash from operating activities from continuing operations Cash Provided by (Used in) Operating Activities, Discontinued Operations Net cash from operating activities from discontinued operations Net Cash Provided by (Used in) Operating Activities Net cash from operating activities Net Cash Provided by (Used in) Investing Activities [Abstract] CASH FLOWS FROM INVESTING ACTIVITIES: Payments to Acquire Debt Securities, Available-for-Sale Purchases of long-term investments Payments to Acquire Property, Plant, and Equipment Purchases of property and equipment Payments to Acquire Businesses, Net of Cash Acquired Acquisitions, net of cash acquired Net Cash Provided by (Used in) Investing Activities Net cash from investing activities Net Cash Provided by (Used in) Financing Activities [Abstract] CASH FLOWS FROM FINANCING ACTIVITIES: Proceeds from Lines of Credit Proceeds from long-term borrowings Payments of Financing Costs Payment of fees for long-term borrowings Repayments of Lines of Credit Payments on long-term borrowings Payments of Dividends Dividend payments Payments for Hedge, Financing Activities Payment for purchase of note hedges Proceeds from Issuance of Warrants Proceeds from sale of warrants Payments for Repurchase of Common Stock Purchase and retirement of common stock Amount paid or accrued to repurchase shares Net (payments) proceeds related to stock based award activities Net Payments Proceeds Related To Stock Based Award Activities Net payments related to stock-based awards Net Cash Provided by (Used in) Financing Activities Net cash from financing activities Effect of Exchange Rate on Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Including Disposal Group and Discontinued Operations EFFECT OF CURRENCY TRANSLATION ON CASH AND CASH EQUIVALENTS Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Including Exchange Rate Effect NET CHANGE IN CASH AND CASH EQUIVALENTS Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Including Disposal Group and Discontinued Operations CASH AND CASH EQUIVALENTS, end of period CASH AND CASH EQUIVALENTS, beginning of period DESCRIPTION OF BUSINESS AND BASIS OF PRESENTATION Organization, Consolidation, Basis of Presentation, Business Description and Accounting Policies [Text Block] DESCRIPTION OF BUSINESS AND BASIS OF PRESENTATION ACQUISITIONS Business Combination Disclosure [Text Block] ACQUISITIONS REVENUE Revenue from Contract with Customer [Text Block] REVENUE INCOME TAX Income Tax Disclosure [Text Block] INCOME TAX STOCKHOLDERS' EQUITY AND EARNINGS PER SHARE The entire disclosure for equity and earnings per share. Equity and Earnings Per Share [Text Block] STOCKHOLDERS' EQUITY AND EARNINGS PER SHARE FAIR VALUE MEASUREMENTS Fair Value Disclosures [Text Block] FAIR VALUE MEASUREMENTS DERIVATIVE FINANCIAL INSTRUMENTS Derivative Instruments and Hedging Activities Disclosure [Text Block] DERIVATIVE FINANCIAL INSTRUMENTS ACCOUNTS RECEIVABLE, NET Accounts and Nontrade Receivable [Text Block] ACCOUNTS RECEIVABLE, NET INVENTORIES Inventory Disclosure [Text Block] INVENTORIES INTANGIBLE ASSETS AND GOODWILL Goodwill and Intangible Assets Disclosure [Text Block] INTANGIBLE ASSETS AND GOODWILL RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGES Restructuring, Impairment, and Other Activities Disclosure [Text Block] RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGES WARRANTIES Product Warranty Disclosure [Text Block] WARRANTIES LEASES Lessee, Operating Leases [Text Block] LEASES STOCK-BASED COMPENSATION Share-Based Payment Arrangement [Text Block] STOCK-BASED COMPENSATION COMMITMENTS AND CONTINGENCIES Commitments and Contingencies Disclosure [Text Block] COMMITMENTS AND CONTINGENCIES LONG-TERM DEBT Debt Disclosure [Text Block] LONG-TERM DEBT SUPPLEMENTAL CASH FLOW INFORMATION AND OTHER DISCLOSURES Cash Flow, Supplemental Disclosures [Text Block] SUPPLEMENTAL CASH FLOW INFORMATION AND OTHER DISCLOSURES Use of Estimates, Policy [Policy Text Block] Use of Estimates in the Preparation of the Consolidated Financial Statements Significant Accounting Policies [Text Block] Significant Accounting Policies New Accounting Pronouncements, Policy [Policy Text Block] New Accounting Standards Schedule of Business Acquisitions, by Acquisition [Table] Schedule of Business Acquisitions, by Acquisition [Table] Business Acquisition [Line Items] Business Acquisition [Line Items] Schedule of Business Acquisitions by Acquisition, Contingent Consideration [Table Text Block] Schedule of consideration paid Schedule of Recognized Identified Assets Acquired and Liabilities Assumed [Table Text Block] Schedule of fair value of assets acquired and liabilities assumed Disaggregation of Revenue [Table Text Block] Schedule of disaggregation of revenue Schedule of

Components of Income Tax Expense (Benefit) [Table Text Block] Schedule of tax provision (benefit) and the effective tax rate for income (loss) from continuing operations Schedule of Accumulated Other Comprehensive Income (Loss) [Table Text Block] Summary of the components of and changes in accumulated other comprehensive income (loss), net of income taxes Reclassification out of Accumulated Other Comprehensive Income [Table Text Block] Schedule of amounts reclassified from accumulated other comprehensive income (loss) to the specific caption within the Consolidated Statements of Operations Schedule of Weighted Average Number of Shares [Table Text Block] Summary of earnings per share Class of Treasury Stock [Table Text Block] Schedule of shares repurchases Schedule of Fair Value, Assets and Liabilities Measured on Recurring Basis [Table Text Block] Schedule of assets and liabilities measured at fair value on a recurring basis Tabular disclosure of allowance for credit loss on accounts and other receivables. Accounts and Other Receivables Net, Allowance for Credit Loss [Table Text Block] Schedule of accounts and other receivable Schedule of Inventory, Current [Table Text Block] Schedule of components of inventories Schedule of Finite-Lived Intangible Assets [Table Text Block] Schedule of intangible assets Finite-Lived Intangible Assets Amortization Expense [Table Text Block] Schedule of amortization expense related to intangible assets Schedule of Finite-Lived Intangible Assets, Future Amortization Expense [Table Text Block] Schedule of estimated future amortization expense related to intangible assets Schedule of Goodwill [Table Text Block] Schedule of changes in goodwill Restructuring and Related Costs [Table Text Block] Schedule of restructuring, asset impairments, and other charges Schedule of Restructuring Reserve by Type of Cost [Table Text Block] Schedule of changes in restructuring liabilities Tabular disclosure of information pertaining to changes related to restructuring plans. Schedule of Charges Related to Restructuring Plans [Table Text Block] Schedule of charges related to restructuring plans Schedule of Product Warranty Liability [Table Text Block] Schedule of changes in product warranty obligation Lease, Cost [Table Text Block] Components of operating lease cost Lessee, Operating Lease, Liability, to be Paid, Maturity [Table Text Block] Schedule of estimated future payments on operating lease liabilities Tabular disclosure of other information relating to operating leases. Schedule of Other Information Relating to Operating Leases [Table Text Block] Schedule of additional information about lease agreements Schedule of Share-Based Compensation Arrangements by Share-Based Payment Award [Table] Schedule of Share-based Compensation Arrangements by Share-based Payment Award [Table] Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items] Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Disclosure of Share-Based Compensation Arrangements by Share-Based Payment Award [Table Text Block] Summary of information related to stock-based incentive compensation plans Share-Based Payment Arrangement, Activity [Table Text Block] Schedule of stock-based compensation Share-Based Compensation Arrangements by Share-Based Payment Award, Restricted Stock Units, Vested and Expected to Vest [Table Text Block] Summary of changes in RSUs Share-Based Payment Arrangement, Option, Activity [Table Text Block] Summary of changes in stock options Schedule of Debt [Table Text Block] Schedule of long-term debt Schedule of Line of Credit Facilities [Table Text Block] Schedule of interest expense and unused line of credit fees Tabular disclosure of borrowing capacity under a line of credit that is available as of the balance sheet date. Schedule Of Line of Credit Facility Available Capacity Table Text Block Schedule of availability to withdraw on Revolving Facility Schedule of Cash Flow, Supplemental Disclosures [Table Text Block] Schedule of supplemental cash flow information Business Acquisition [Axis] Business Acquisition, Acquiree [Domain] Represents Airity Technologies. Airity Technologies [Member] Airity Technologies Statistical Measurement [Axis] Statistical Measurement [Domain] Minimum Maximum Scenario [Axis] Scenario [Domain] Represents shares allocated to consideration paid at closing. Shares allocated to consideration paid at closing Shares that are considered future compensation. Shares considered future compensation Business Acquisition, Percentage of Voting Interests Acquired Acquired percentage Share-Based Payment Arrangement, Grantee Status [Extensible Enumeration] Share-Based Compensation Arrangement by Share-Based Payment Award, Award Vesting Period Vesting period Payments to Acquire Businesses, Gross Cash paid at closing Business Combination, Consideration Transferred, Equity Interests Issued and Issuable Advanced Energy common stock Common stock used as consideration in business combination Amount of settlement of payables of the acquirer in consideration for the business combination. Business Combination Recognized Identifiable Assets Acquired And Liabilities Assumed Current Liabilities Settlement Payable Settlement of payables Amount of assets acquired on indemnity holdback payable. Business Combination, Recognized Identifiable Assets Acquired and Liabilities Assumed Indemnity Holdback Payable Indemnity holdback payable on the one-year anniversary Business Combination, Consideration Transferred Total fair value of consideration transferred Business Combination, Recognized Identifiable Assets Acquired and Liabilities Assumed, Cash and Equivalents Cash Business Combination, Recognized Identifiable Assets Acquired and Liabilities Assumed, Current Assets Current assets and liabilities, net Business Combination, Recognized Identifiable Assets Acquired and Liabilities Assumed, Property, Plant, and Equipment Property and equipment Business Combination, Recognized Identifiable Assets Acquired and Liabilities Assumed, Deferred Tax Liabilities Deferred tax liability Business Combination, Recognized Identifiable Assets Acquired and Liabilities Assumed, Finite-Lived Intangibles Intangible assets Business Combination, Recognized Identifiable Assets Acquired and Liabilities Assumed, Net Total fair value of net assets acquired Disaggregation of Revenue [Table] Disaggregation of Revenue [Table] Product and Service [Axis] Product and Service [Domain] Represents semiconductor equipment. Semiconductor Equipment Represents industrial and medical product or service. Industrial and Medical Represents data center computing. Data Center Computing Represents telecom and networking. Telecom and Networking Product Represents services and other revenue. Service and Other [Member] Services and other Geographical [Axis] Geographical [Domain] North America Asia Europe Represents other geographic regions. Other United States Mexico Taiwan China Represents other countries. All others Concentration Risk Benchmark [Axis] Concentration Risk Benchmark [Domain] Revenue Benchmark Concentration Risk Type [Axis] Concentration Risk Type [Domain] Geographic Concentration Risk Disaggregation of Revenue [Line Items] Disaggregation of Revenue [Line Items] Concentration Risk, Percentage Significant concentration risk Revenue (as a percent) Schedule of Revenue by Major Customers, by Reporting Segments [Table] Accounts Receivable [Member] Accounts Receivable Benchmark Customer Concentration Risk [Member] Customer Concentration Risk Customer [Axis] Customer [Domain] Represents Applied Materials, Inc. Applied Materials, Inc. Applied Materials, Inc Represents Lam Research Corporation. Lam Research Corporation [Member] Lam Research Corporation Revenue, Major Customer [Line Items] Effective Income Tax Rate Reconciliation, Percent Effective tax rate Effective Income Tax Rate Reconciliation, at Federal Statutory Income Tax Rate, Percent Federal statutory tax rate Accumulated Other Comprehensive Income (Loss) [Table] Accumulated Foreign Currency Adjustment Attributable to Parent Foreign currency translation Accumulated Gain (Loss), Net, Cash Flow Hedge, Parent [Member] Change in Fair Value of Cash Flow Hedges Cash flow hedges Accumulated Defined Benefit Plans Adjustment, Net Gain (Loss) Attributable to Parent [Member] Defined employee benefit plan Defined Employee Benefit Plan Accumulated Other Comprehensive Income (Loss) [Line Items] ACCUMULATED OTHER COMPREHENSIVE INCOME (LOSS) AOCI Attributable to Parent, Net of Tax [Roll Forward] Components of and changes in accumulated other comprehensive income (loss), net of income taxes OCI, before Reclassifications, Net of Tax, Attributable to Parent Other comprehensive income (loss) prior to reclassifications Reclassification from AOCI, Current Period, Net of Tax, Attributable to Parent Amounts reclassified from accumulated other comprehensive income (loss) Reclassification out of Accumulated Other Comprehensive Income [Table] Reclassification out of Accumulated Other Comprehensive Income [Axis] Reclassification out of Accumulated Other Comprehensive Income [Domain] Reclassification out of Accumulated Other Comprehensive Income [Member] Reclassified from accumulated other comprehensive income (loss) Reclassification Adjustment out of Accumulated Other Comprehensive Income [Line Items] Antidilutive Security, Excluded EPS Calculation [Table] Schedule of Antidilutive Securities Excluded from Computation of Earnings Per Share [Table] Antidilutive Securities [Axis] Antidilutive Securities, Name [Domain] Share-Based Payment Arrangement [Member] Stock awards Warrants Warrants Antidilutive Securities Excluded from Computation of Earnings Per Share [Line Items] Antidilutive Securities Excluded from Computation of Earnings Per Share [Line Items] Net Income (Loss) from Continuing Operations Available to Common Shareholders, Basic Income (loss) from continuing operations Incremental Common Shares Attributable to Dilutive Effect of Share-Based Payment Arrangements Dilutive effect of stock awards Income (Loss) from Continuing Operations, Net of Tax, Including Portion Attributable to Noncontrolling Interest [Abstract] EPS from continuing operations Antidilutive Securities Excluded from Computation of Earnings Per Share, Amount Anti-dilutive shares Schedule of Long-Term Debt Instruments [Table] Represents convertible senior notes due 2028. 2.50% Convertible Notes Convertible Notes due 2028 Debt Instrument [Line Items] Share Price Stock price Class of Warrant or Right, Exercise Price of Warrants or Rights Exercise price Class of Treasury Stock [Table] Class of Treasury Stock [Table] Equity, Class of Treasury Stock [Line Items] Equity, Class of Treasury Stock [Line Items] Stock Repurchased During Period, Shares Number of shares repurchased Shares Acquired, Average Cost Per Share Average repurchase price per share Share Repurchase Program, Remaining Authorized, Amount Remaining amount authorized by Board of Directors for future share repurchases Fair Value, Recurring and Nonrecurring [Table] Measurement Frequency [Axis] Measurement Frequency [Domain] Fair Value, Recurring Fair Value Hierarchy and NAV [Axis] Fair Value Hierarchy and NAV [Domain] Fair Value, Inputs, Level 2 Asset Class [Axis] Asset Class [Domain] Certificates of Deposit Forward Contracts Interest Rate Swap Investments [Member] Investments Statement of Financial Position Location, Balance [Axis] Statement of Financial Position Location, Balance [Domain] Other Current Assets Primary financial statement caption encompassing other accrued liabilities. Other Accrued Liabilities [Member] Other accrued expenses Other Noncurrent Assets [Member] Other assets Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Assets, Fair Value Disclosure Net assets measured at fair value on a recurring basis Liabilities, Fair Value Disclosure Liabilities, Fair Value Disclosure Derivative Instruments, Gain (Loss) [Table] Derivative Instrument [Axis] Derivative Contract [Domain] Foreign Exchange Forward [Member] Foreign exchange forward Derivative Instruments, Gain (Loss) [Line Items] Derivative, Notional Amount Derivative, notional amount Accounts Receivable, Allowance for Credit Loss Balance at end of period Balance at beginning of period Accounts Receivable, Allowance for Credit Loss, Period Increase (Decrease) Additions Accounts Receivable, Allowance for Credit Loss, Writeoff Deductions - write-offs, net of recoveries Inventory, Raw Materials and Purchased Parts, Net of Reserves Parts and raw materials Inventory, Work in Process, Net of Reserves Work in process Inventory, Finished Goods, Net of Reserves Finished goods Intangible Asset, Finite-Lived [Table] Schedule of Finite-Lived Intangible Assets [Table] Finite-Lived Intangible Assets by Major Class [Axis] Finite-Lived Intangible Assets, Major Class Name [Domain] Technology Equipment [Member] Technology Customer Relationships [Member] Customer relationships Represents trademarks and other. Trademarks and other Finite-Lived Intangible Assets [Line Items] Finite-Lived Intangible Assets [Line Items] Finite-Lived Intangible Assets, Gross Gross Carrying Amount Finite-Lived Intangible Assets, Accumulated Amortization Accumulated Amortization Finite-Lived Intangible Asset, Useful Life Weighted Average Remaining Useful Life (in years) Schedule of Acquired Finite-Lived Intangible Asset by Major Class [Table] Schedule of Acquired Finite-Lived Intangible Asset by Major Class [Table] Acquired Finite-Lived Intangible Assets [Line Items] Acquired Finite-Lived Intangible Assets [Line Items] Finite-Lived Intangible Asset, Expected Amortization, Remainder of Fiscal Year 2024 (remaining) Finite-Lived Intangible Asset, Expected Amortization, Year One 2025 Finite-Lived Intangible Asset, Expected Amortization, Year Two 2026 Finite-Lived Intangible Asset, Expected Amortization, Year Three 2027 Finite-Lived Intangible Asset, Expected Amortization, Year Four 2028 Amount of amortization expense for assets, excluding financial assets and goodwill, lacking physical substance with a finite life expected to be recognized after the fourth fiscal year following the latest fiscal year. Excludes interim and annual periods when interim periods are reported on a rolling approach, from latest balance sheet date. Finite Lived Intangible Assets Amortization Expense After Year Four Thereafter Goodwill [Table] Schedule of Goodwill [Table] Goodwill [Line Items] Goodwill [Line Items] Goodwill, Acquired During Period Additions from acquisition Goodwill, Foreign Currency Translation Gain (Loss) Foreign currency translation and other Restructuring Charges Restructuring Cost incurred and charged to expense Amount of other miscellaneous charges. Other Miscellaneous Charges Other charges Restructuring Cost [Table] Schedule of Restructuring and Related Costs [Table] Accrued Liabilities [Member] Accrued Liabilities Other Noncurrent Liabilities [Member] Other long-term liabilities Restructuring Plan [Axis] Restructuring Plan [Domain] Represents 2024 Restructuring Plan. Two Thousand And Twenty Four Restructuring Plan [Member] 2024 Plan Restructuring Cost and Reserve [Line Items] Restructuring Cost and Reserve [Line Items] Restructuring and Related Cost, Expected Cost Expected additional charges Restructuring Reserve, Current Restructuring reserve Represents 2023 Restructuring Plan. Two Thousand And Twenty Three Restructuring Plan [Member] 2023 Plan Represents 2022 Restructuring Plan. Twenty Twenty Two Restructuring Plan [Member] 2022 Plan Represents 2018 Restructuring Plan. Twenty Eighteen Restructuring Plan [Member] Other Restructuring Reserve [Roll Forward] Restructuring Reserve [Roll Forward] Restructuring Reserve Ending balance Beginning balance Payments for Restructuring Cost paid Restructuring Reserve, Foreign Currency Translation Gain (Loss) Foreign currency translation Restructuring Type [Axis] Type of Restructuring [Domain] Employee Severance Facility Closing [Member] Facility relocation and closure charges Product Liability Contingency [Table] Product Liability Contingency [Table] Product Liability Contingency [Line Items] Product Liability Contingency [Line Items] Standard Product Warranty Term Standard Product Warranty Term Product warranty term Movement in Standard and Extended Product Warranty Accrual, Increase (Decrease) [Roll Forward] Movement in Standard Product Warranty Accrual [Roll Forward] Standard and Extended Product Warranty Accrual Balance at end of period Balance at beginning of period Standard and Extended Product Warranty Accrual, Increase for Warranties Issued Net increases to accruals Product Warranty Expense Warranty expenditures Standard and Extended Product Warranty Accrual, Foreign Currency Translation Gain (Loss) Effect of changes in exchange rates Operating Lease, Cost Operating lease cost Represents the amount of short-term and variable lease costs. Short-term and Variable Lease, Costs Short-term and variable lease cost Lease, Cost Total operating lease cost Other Commitments [Table] Other Commitments [Line Items] Lessee, Operating Lease, Liability, to be Paid, Remainder of Fiscal Year 2024 (remaining) Lessee, Operating Lease, Liability, to be Paid, Year One 2025 Lessee, Operating Lease, Liability, to be Paid, Year Two 2026 Lessee, Operating Lease, Liability, to be Paid, Year Three 2027 Lessee, Operating Lease, Liability, to be Paid, Year Four 2028 Amount of lessee's undiscounted obligation for lease payments for operating lease, due after fourth fiscal year following latest fiscal year. Lessee Operating Lease Liability Payments Due After Year Four Thereafter Lessee, Operating Lease, Liability, to be Paid Total lease payments Lessee, Operating Lease, Liability, Undiscounted Excess Amount Less: Interest Operating Lease, Liability Present value of lease liabilities Amount of payments for lease agreements that commence in the future. Future Commencement Lease Agreement Payments Payments for lease agreements that commence in the future Lessee, Lease, Description [Table] Represents Zhongshan, China. Zhongshan, China Lessee, Lease, Description [Line Items] Decrease in amount of lessee's right to use underlying asset under operating lease. Operating Lease Right Of Use Asset Decrease Operating lease right of use asset, decrease Decrease in value of lessee's discounted obligation for lease payments from operating lease. Operating Lease Liability Decrease Operating lease liability, decrease Operating Lease, Weighted Average Remaining Lease Term Weighted average remaining lease term (in years) Operating Lease, Weighted Average Discount Rate, Percent Weighted average discount rate Operating Lease, Payments Cash paid for operating leases Right-of-Use Asset Obtained in Exchange for Operating Lease Liability Right-of-use assets obtained in exchange for operating lease liabilities Restricted Stock Units (RSUs) Employee Stock Plan Name [Axis] Plan Name [Domain] Represents 2023 Omnibus incentive plan. Omnibus 2023 Incentive Plan [Member] The 2023 Incentive Plan Number Of Stock Based Incentive Compensation Plans Number Of Stock Based Incentive Compensation Plans Stock-based incentive compensation plans Share-Based Compensation Arrangement by Share-Based Payment Award, Number of Shares Available for Grant Shares available for future issuance Share-Based Compensation Arrangement by Share-Based Payment Award, Expiration Period Awards term Share-Based Payment Arrangement, Plan Modification, Incremental Cost Modification of stock-based compensation expense Share-Based Payment Arrangement, Expense Stock-based compensation expense Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Number RSUs outstanding at end of period RSUs outstanding at beginning of period Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Grants in Period RSUs granted Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Vested in Period RSUs vested Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Forfeited in Period RSUs forfeited Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Weighted Average Grant Date Fair Value Weighted Average Grant Date Fair Value, Ending Balance Weighted Average Grant Date Fair Value, Beginning Balance Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Grants in Period, Weighted Average Grant Date Fair Value Weighted Average Grant Date Fair Value, granted Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Vested in Period, Weighted Average Grant Date Fair Value Weighted Average Grant Date Fair Value, Vested Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Forfeitures, Weighted Average Grant Date Fair Value Weighted Average Grant Date Fair Value, Forfeited Option Type [Axis] Option Type [Axis] [Domain] for Option Type [Axis] Option Type [Domain] Represents time based shares. Time Based Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Number Options outstanding at ending of period Options outstanding at beginning of period Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercises in Period Options exercised Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Weighted Average Exercise Price Weighted-Average Exercise Price per Share, Options outstanding at end of period Weighted-Average Exercise Price per Share, Options outstanding at beginning of period Share-Based Compensation

Arrangements by Share-Based Payment Award, Options, Exercises in Period, Weighted Average Exercise Price Weighted-Average Exercise Price per Share, Options exercised Line of Credit Facility [Table] Line of Credit Facility [Table] Debt Instrument [Axis] Debt Instrument, Name [Domain] Credit Facility [Axis] Credit Facility [Domain] Represents term loan facility arrangement in which loan proceeds can continuously be obtained following repayments, but the total amount borrowed cannot exceed a specified maximum amount. Term Loan Facility Line of Credit Facility [Line Items] Line of Credit Facility [Line Items] Long-Term Debt, Unclassified [Abstract] Debt: Long-Term Debt, Gross Gross long-term debt, including current maturities Debt Instrument, Unamortized Discount Less: debt discount Long-Term Debts Long-term Debt Net long-term debt, including current maturities Interest Expense, Debt Interest expense Amortization of Debt Issuance Costs Amortization of debt issuance costs Amount of interest capitalized during the period. Interest Costs Capitalized1 Capitalized interest Interest and Debt Expense Total interest expense related to debt Revolving Credit Facility Line of Credit Facility, Maximum Borrowing Capacity Borrowing capacity Long-Term Line of Credit Balance Line of Credit Facility, Remaining Borrowing Capacity Available capacity The contingent increase above the maximum borrowing capacity under the credit facility, if any one or more of the existing banks or new banks agree to provide such increased commitment amount. Line of Credit Facility Contingent Increase, Additional Borrowing Capacity Increase in borrowing capacity Amount of outstanding principal balance under the credit facility. Line Of Credit Facility Outstanding Principal Balance Outstanding principal balance Debt Instrument, Face Amount Principal amount Debt Instrument, Interest Rate, Stated Percentage Interest rate Debt Instrument, Redemption Price, Percentage of Principal Amount Redeemed Redemption price of the principal amount to be redeemed Debt Instrument, Convertible, Conversion Price Conversion price Debt Instrument, Fair Value Disclosure Debt fair value Cash Flow, Noncash Investing and Financing Activities Disclosure [Abstract] Non-cash investing activities: Capital Expenditures Incurred but Not yet Paid Capital expenditures in accounts payable and other accrued expenses Interest And Income Taxes Paid Abstract [Abstract] Interest And Income Taxes Paid Abstract [Abstract] Cash paid for: Interest Paid, Excluding Capitalized Interest, Operating Activities Interest expense Income Taxes Paid Income taxes Proceeds from Income Tax Refunds Cash received from income taxes Depreciation Depreciation expense EX-101.PRE 11 aeis-20240930_pre.xml EX-101.PRE XML 13 R1.htm IDEA: XBRL DOCUMENT v3.24.3 Document and Entity Information - shares 9 Months Ended Sep. 30, 2024 Oct. 28, 2024 Document and Entity Information Â Â Document Type 10-Q Â Document Quarterly Report true Â Document Period End Date Sep. 30, 2024 Â Document Transition Report false Â Securities Act File Number 000-26966 Â Entity Registrant Name ADVANCED ENERGY INDUSTRIES,Â INC. Â Entity Incorporation, State or Country Code DE Â Entity Tax Identification Number 84-0846841 Â Entity Address, Address Line One 1595 Wynkoop Street, Suite 800 Â Entity Address, City or Town Denver Â Entity Address, State or Province CO Â Entity Address, Postal Zip Code 80202 Â City Area Code 970 Â Local Phone Number 407-6626 Â Title of 12(b) Security Common Stock, $0.001Â par value Â Trading Symbol AEIS Â Security Exchange Name NASDAQ Â Entity Current Reporting Status Yes Â Entity Interactive Data Current Yes Â Entity Filer Category Large Accelerated Filer Â Entity Small Business false Â Entity Emerging Growth Company false Â Entity Shell Company false Â Entity Common Stock, Shares Outstanding Â 37,673,067 Entity Central Index Key 0000927003 Â Current Fiscal Year End Date --12-31 Â Document Fiscal Year Focus 2024 Â Document Fiscal Period Focus Q3 Â Amendment Flag false Â X - DefinitionBoolean flag that is true when the XBRL content amends previously-filed or accepted submission. + ReferencesNo definition available. + Details Name: dei_AmendmentFlag Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionArea code of city + ReferencesNo definition available. + Details Name: dei_CityAreaCode Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCover page. + ReferencesNo definition available. + Details Name: dei_CoverAbstract Namespace Prefix: dei_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionEnd date of current fiscal year in the format --MM-DD. + ReferencesNo definition available. + Details Name: dei_CurrentFiscalYearEndDate Namespace Prefix: dei_ Data Type: xbrli:gMonthDayItemType Balance Type: na Period Type: duration X - DefinitionFiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY. + ReferencesNo definition available. + Details Name: dei_DocumentFiscalPeriodFocus Namespace Prefix: dei_ Data Type: dei:fiscalPeriodItemType Balance Type: na Period Type: duration X - DefinitionThis is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006. + ReferencesNo definition available. + Details Name: dei_DocumentFiscalYearFocus Namespace Prefix: dei_ Data Type: xbrli:gYearItemType Balance Type: na Period Type: duration X - DefinitionFor the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD. + ReferencesNo definition available. + Details Name: dei_DocumentPeriodEndDate Namespace Prefix: dei_ Data Type: xbrli:dateItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as an quarterly report. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 10-Q -Number 240 -Section 308 -Subsection a + Details Name: dei_DocumentQuarterlyReport Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as a transition report. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Forms 10-K, 10-Q, 20-F -Number 240 -Section 13 -Subsection a-1 + Details Name: dei_DocumentTransitionReport Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'. + ReferencesNo definition available. + Details Name: dei_DocumentType Namespace Prefix: dei_ Data Type: dei:submissionTypeItemType Balance Type: na Period Type: duration X - DefinitionAddress Line 1 such as Attn, Building Name, Street Name + ReferencesNo definition available. + Details Name: dei_EntityAddressAddressLine1 Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the City or Town + ReferencesNo definition available. + Details Name: dei_EntityAddressCityOrTown Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCode for the postal or zip code + ReferencesNo definition available. + Details Name: dei_EntityAddressPostalZipCode Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the state or province. + ReferencesNo definition available. + Details Name: dei_EntityAddressStateOrProvince Namespace Prefix: dei_ Data Type: dei:stateOrProvinceItemType Balance Type: na Period Type: duration X - DefinitionA unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityCentralIndexKey Namespace Prefix: dei_ Data Type: dei:centralIndexKeyItemType Balance Type: na Period Type: duration X - DefinitionIndicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument. + ReferencesNo definition available. + Details Name: dei_EntityCommonStockSharesOutstanding Namespace Prefix: dei_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionIndicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesNo definition available. + Details Name: dei_EntityCurrentReportingStatus Namespace Prefix: dei_ Data Type: dei:yesNoItemType Balance Type: na Period Type: duration X - DefinitionIndicate if registrant meets the emerging growth company criteria. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityEmergingGrowthCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionCommission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen. + ReferencesNo definition available. + Details Name: dei_EntityFileNumber Namespace Prefix: dei_ Data Type: dei:fileNumberItemType Balance Type: na Period Type: duration X - DefinitionIndicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityFilerCategory Namespace Prefix: dei_ Data Type: dei:filerCategoryItemType Balance Type: na Period Type: duration X - DefinitionTwo-character EDGAR code representing the state or country of incorporation. + ReferencesNo definition available. + Details Name: dei_EntityIncorporationStateCountryCode Namespace Prefix: dei_ Data Type: dei:edgarStateCountryItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-T -Number 232 -Section 405 + Details Name: dei_EntityInteractiveDataCurrent Namespace Prefix: dei_ Data Type: dei:yesNoItemType Balance Type: na Period Type: duration X - DefinitionThe exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityRegistrantName Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityShellCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionIndicates that the company is a Smaller Reporting Company (SRC). + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntitySmallBusiness Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityTaxIdentificationNumber Namespace Prefix: dei_ Data Type: dei:employerIdItemType Balance Type: na Period Type: duration X - DefinitionLocal phone number for entity. + ReferencesNo definition available. + Details Name: dei_LocalPhoneNumber Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionTitle of a 12(b) registered security. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b + Details Name: dei_Security12bTitle Namespace Prefix: dei_ Data Type: dei:securityTitleItemType Balance Type: na Period Type: duration X - DefinitionName of the Exchange on which a security is registered. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection d1-1 + Details Name: dei_SecurityExchangeName Namespace Prefix: dei_ Data Type: dei:edgarExchangeCodeItemType Balance Type: na Period Type: duration X - DefinitionTrading symbol of an instrument as listed on an exchange. + ReferencesNo definition available. + Details Name: dei_TradingSymbol Namespace Prefix: dei_ Data Type: dei:tradingSymbolItemType Balance Type: na Period Type: duration XML 14 R2.htm IDEA: XBRL DOCUMENT v3.24.3 Unaudited Consolidated Balance Sheets - USD ($) $ in Thousands Sep. 30, 2024 Dec. 31, 2023 Current assets: Â Â Cash and cash equivalents $ 657,288 $ 1,044,556 Accounts receivable, net 259,399 282,430 Inventories 377,740 336,137 Other current assets 51,281 48,771 Total current assets 1,345,708 1,711,894 Property and equipment, net 181,875 167,665 Operating lease right-of-use assets 86,003 95,432 Other assets 134,948 136,448 Intangible assets, net 145,290 161,478 Goodwill 299,036 283,840 TOTAL ASSETS 2,192,860 2,556,757 Current liabilities: Â Â Accounts payable 133,006 141,850 Accrued payroll and employee benefits 62,743 73,595 Other accrued expenses 66,048 66,662 Customer deposits and other 11,351 15,997 Current portion of long-term debt Â 20,000 Current portion of operating lease liabilities 18,360 17,744 Total current liabilities 291,508 335,848 Long-term debt, net 564,000 895,679 Operating lease liabilities 80,264 89,330 Pension benefits 50,374 49,135 Other long-term liabilities 42,322 42,583 Total liabilities 1,028,468 1,412,575 Commitments and contingencies (Note 15) Stockholders' equity: Â Â Preferred stock, $0.001 par value, 1,000 shares authorized, none issued and outstanding Common stock, $0.001 par value, 70,000 shares authorized; 37,671 and 37,318 issued and outstanding at September 30, 2024 and December 31, 2023, respectively 38 37 Additional paid-in capital 180,529 148,300 Accumulated other comprehensive income 2,089 6,114 Retained earnings 981,736 989,731 Total stockholders' equity 1,164,392 1,144,182 TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY $ 2,192,860 $ 2,556,757 X - DefinitionThe current portion, due within one year or one operating cycle, if longer, of aggregate prepayments received from customers for goods or services to be provided in the future, as well as the amount of deferred revenue as of balance sheet date. Deferred revenue represents collections of cash or other assets related to a revenue producing activity for which revenue has not yet been recognized. Generally, an entity records deferred revenue when it receives consideration from a customer before achieving certain criteria that must be met for revenue to be recognized in conformity with GAAP. + ReferencesNo definition available. + Details Name: aeis_CustomerDepositsAndDeferredRevenueCurrent Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10 + Details Name: us-gaap_AccountsPayableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481990/310-10-45-2 + Details Name: us-gaap_AccountsReceivableNetCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of expenses incurred but not yet paid nor invoiced, and liabilities classified as other. + ReferencesNo definition available. + Details Name: us-gaap_AccruedLiabilitiesAndOtherLiabilities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after tax, of accumulated increase (decrease) in equity from transaction and other event and circumstance from nonowner source. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14 + Details Name: us-gaap_AccumulatedOtherComprehensiveIncomeLossNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of excess of issue price over par or stated value of stock and from other transaction involving stock or stockholder. Includes, but is not limited to, additional paid-in capital (APIC) for common and preferred stock. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -

Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AdditionalPaidInCapital Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of asset recognized for present right to economic benefit. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 12: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 13: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 30: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_Assets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of asset recognized for present right to economic benefit, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7 + Details Name: us-gaap_AssetsCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_AssetsCurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionRepresents the caption on the face of the balance sheet to indicate that the entity has entered into (1) purchase or supply arrangements that will require expending a portion of its resources to meet the terms thereof, and (2) is exposed to potential losses or, less frequently, gains, arising from (a) possible claims against a company's resources due to future performance under contract terms, and (b) possible losses or likely gains from uncertainties that will ultimately be resolved when one or more future events that are deemed likely to occur do occur or fail to occur. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_CommitmentsAndContingencies Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionValue of common shares held by shareholders. Excludes common shares repurchased and held as treasury shares. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_CommonStockValueOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of liability, recognized in statement of financial position, for defined benefit pension plan, classified as noncurrent. Excludes other postretirement benefit plan. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480535/715-20-45-3Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 715 -SubTopic 20 -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480535/715-20-45-2Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 715 -SubTopic 20 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-1 + Details Name: us-gaap_DefinedBenefitPensionPlanLiabilitiesNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionTotal of the carrying values as of the balance sheet date of obligations incurred through that date and payable for obligations related to services received from employees, such as accrued salaries and bonuses, payroll taxes and fringe benefits. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_EmployeeRelatedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount after amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 926 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483154/926-20-50-5 + Details Name: us-gaap_FiniteLivedIntangibleAssetsNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -

Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482598/350-20-45-1Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_Goodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of liability recognized for present obligation requiring transfer or otherwise providing economic benefit to others. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(26)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 15: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 28: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 29: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30 + Details Name: us-gaap_Liabilities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of liabilities and equity items, including the portion of equity attributable to noncontrolling interests, if any. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(32)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LiabilitiesAndStockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionTotal obligations incurred as part of normal operations that are expected to be paid during the following twelve months or within one business cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI 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http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 21: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7 + Details Name: us-gaap_LiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_LiabilitiesCurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as current. Excludes lease obligation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LongTermDebtCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as noncurrent. Excludes lease obligation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LongTermDebtNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiabilityCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as noncurrent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiabilityNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's right to use underlying asset under operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseRightOfUseAsset Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of current assets classified as other. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2:

http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherAssetsCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of other miscellaneous assets expected to be realized or consumed after one year or normal operating cycle, if longer. + ReferencesNo definition available. + Details Name: us-gaap_OtherAssetsMiscellaneousNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of liabilities classified as other, due after one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherLiabilitiesNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAggregate par or stated value of issued nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable preferred shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap_PreferredStockValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7AReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478451/942-360-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of accumulated undistributed earnings (deficit). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_RetainedEarningsAccumulatedDeficit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2 + Details Name: us-gaap_StockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_StockholdersEquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 15 R3.htm IDEA: XBRL DOCUMENT v3.24.3 Unaudited Consolidated Balance Sheets (Parenthetical) - $ / shares shares in Thousands Sep. 30, 2024 Dec. 31, 2023 Unaudited Consolidated Balance Sheets Â Â Preferred stock, par value (in dollars per share) $ 0.001 $ 0.001 Preferred stock, shares authorized (in shares) 1,000 1,000 Preferred stock, shares issued (in shares) 0 0 Preferred stock, shares outstanding (in shares) 0 0 Common stock, par value (in dollars per share) $ 0.001 $ 0.001 Common stock, shares authorized (in shares) 70,000 70,000 Common stock, shares issued (in shares) 37,671 37,318 Common stock, shares outstanding (in shares) 37,671 37,318 X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe maximum number of common shares permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_CommonStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionTotal number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockSharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares of common stock outstanding. Common stock represent the ownership interest in a corporation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_CommonStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionFace amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13 + Details Name: us-gaap_PreferredStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_PreferredStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares issued for nonredeemable preferred shares and preferred shares redeemable solely at option of issuer. Includes, but is not limited to, preferred shares issued, repurchased, and held as treasury shares. Excludes preferred shares classified as debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13 + Details Name: us-gaap_PreferredStockSharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionAggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_PreferredStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_StatementOfFinancialPositionAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 16 R4.htm IDEA: XBRL DOCUMENT v3.24.3 Unaudited Consolidated Statements of Operations - USD ($) shares in Thousands, $ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Unaudited Consolidated Statements of Operations Â Â Â Â Revenue, net $ 374,217 $ 409,991 $ 1,066,639 $ 1,250,539 Cost of revenue 240,149 262,650 692,001 801,007 Gross profit 134,068 147,341 374,638 449,532 Operating expenses: Â Â Â Â Research and development 53,561 50,391 155,732 153,414 Selling, general, and administrative 56,237 55,131 166,374 166,102 Amortization of intangible assets 6,772 7,049 20,519 21,186 Restructuring, asset impairments, and other charges 28,546 4,709 29,416 8,906 Total operating expenses 145,116 117,280 372,041 349,608 Operating income (loss) (11,048) 30,061 2,597 99,924 Interest income 11,018 6,396 35,782 14,282 Interest expense (6,378) (3,780) (20,461) (9,368) Other income (expense), net (8,139) 1,848 (6,122) 1,425 Income (loss) from continuing operations, before income tax (14,547) 34,525 11,796 106,263 Income tax provision (benefit) (400) 874 4,552 13,405 Income (loss) from continuing operations (14,147) 33,651 7,244 92,858 Loss from discontinued operations, net of income tax (758) (930) (1,904) (2,076) Net income (loss) $ (14,905) $ 32,721 $ 5,340 $ 90,782 Basic weighted-average common shares outstanding 37,532 37,575 37,455 37,541 Diluted weighted-average common shares outstanding 37,532 37,854 37,785 37,842 Earnings (loss) per share: Â Â Â Â Basic earnings per share $ (0.38) $ 0.90 $ 0.19 $ 2.47 Diluted earnings per share (0.38) 0.89 0.19 2.45 Basic loss per share (0.02) (0.02) (0.05) (0.06) Diluted loss per share (0.02) (0.02) (0.05) (0.05) Net income (loss): Â Â Â Â Basic earnings (loss) per share (0.40) 0.87 0.14 2.42 Diluted earnings (loss) per share $ (0.40) $ 0.86 $ 0.14 $ 2.40 X - DefinitionThe aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-2 + Details Name: us-gaap_AmortizationOfIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe aggregate costs related to goods produced and sold and services rendered by an entity during the reporting period. This excludes costs incurred during the reporting period related to financial services rendered and other revenue generating activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1 + Details Name: us-gaap_CostOfGoodsAndServicesSold Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareBasic Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareDiluted Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionAggregate revenue less cost of goods and services sold or operating expenses directly attributable to the revenue generation activity. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 9: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 23: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31 + Details Name: us-gaap_GrossProfit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount after tax of income (loss) from continuing operations attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 45 -

Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-18 + Details Name: us-gaap_IncomeLossFromContinuingOperations Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of income (loss) from continuing operations, including income (loss) from equity method investments, before deduction of income tax expense (benefit), and income (loss) attributable to noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 9: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-S99-1Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe amount of net income (loss) from continuing operations per each share of common stock or unit outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7Reference 17: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_IncomeLossFromContinuingOperationsPerBasicShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) derived from continuing operations during the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_IncomeLossFromContinuingOperationsPerDilutedShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionAmount after tax of income (loss) from a discontinued operation attributable to the parent. Includes, but is not limited to, the income (loss) from operations during the phase-out period, gain (loss) on disposal, gain (loss) for reversal of write-down (write-down) to fair value, less cost to sell, and adjustments to a prior period gain (loss) on disposal. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-4Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3 + Details Name: us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxAttributableToReportingEntity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionPer basic share amount, after tax, of income (loss) from the day-to-day business activities of the discontinued operation and gain (loss) from the disposal of the discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxPerBasicShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionPer diluted share amount, after tax, of income (loss) from the day-to-day business activities of the discontinued operation and gain (loss) from the disposal of the discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 5 -Subparagraph (SAB Topic 5.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479836/810-10-S99-5 + Details Name: us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxPerDilutedShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncomeStatementAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.I.7) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Subparagraph (a) -SubTopic 20 -Topic 740 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482659/740-20-45-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -

Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)) -SubTopic 10 -Topic 235 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap_IncomeTaxExpenseBenefit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of interest expense classified as operating and nonoperating. Includes, but is not limited to, cost of borrowing accounted for as interest expense. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-24Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483013/835-20-50-1 + Details Name: us-gaap_InterestExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount before accretion (amortization) of purchase discount (premium) of interest income on nonoperating securities. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(7)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32 + Details Name: us-gaap_InvestmentIncomeInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetIncomeLossAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionGenerally recurring costs associated with normal operations except for the portion of these expenses which can be clearly related to production and included in cost of sales or services. Includes selling, general and administrative expense. + ReferencesNo definition available. + Details Name: us-gaap_OperatingExpenses Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OperatingExpensesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe net result for the period of deducting operating expenses from operating revenues. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31 + Details Name: us-gaap_OperatingIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of income (expense) related to nonoperating activities, classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_OtherNonoperatingIncomeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 730 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482916/730-10-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 912 -SubTopic 730 -Name Accounting Standards Codification -Section 25 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479532/912-730-25-1 + Details Name: us-gaap_ResearchAndDevelopmentExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, after cash payment, of expenses associated with exit or disposal activities pursuant to an authorized plan and expenses resulting from the write-down of assets. Excludes expenses related to a business combination, a discontinued operation or an asset retirement obligation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_RestructuringCostsAndAssetImpairmentCharges Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10:

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Direct selling expenses (for example, credit, warranty, and advertising) are expenses that can be directly linked to the sale of specific products. Indirect selling expenses are expenses that cannot be directly linked to the sale of specific products, for example telephone expenses, Internet, and postal charges. General and administrative expenses include salaries of non-sales personnel, rent, utilities, communication, etc. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_SellingGeneralAndAdministrativeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-16 + Details Name: us-gaap_WeightedAverageNumberOfDilutedSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10 + Details Name: us-gaap_WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration XML 17 R5.htm IDEA: XBRL DOCUMENT v3.24.3 Unaudited Consolidated Statements of Comprehensive Income (Loss) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Unaudited Consolidated Statements of Comprehensive Income (Loss) Â Â Â Â Net income (loss) $ (14,905) $ 32,721 $ 5,340 $ 90,782 Other comprehensive income (loss), net of income tax Â Â Â Â Foreign currency translation 12,401 (5,069) 3,251 (6,798) Change in fair value of cash flow hedges (1,738) (1,822) (5,474) (3,840) Defined employee benefit plan (1,751) Â (1,802) (292) Comprehensive income (loss) $ (5,993) $ 25,830 $ 1,315 $ 79,852 X - ReferencesNo definition available. + Details Name: us-gaap_ComprehensiveIncomeNetOfTaxAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount after tax of increase (decrease) in equity from transactions and other events and circumstances from net income and other comprehensive income. Excludes changes in equity resulting from investments by owners and distributions to owners. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 55 -Paragraph 4K -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4K + Details Name: us-gaap_ComprehensiveIncomeNetOfTaxIncludingPortionAttributableToNoncontrollingInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 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http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount, after tax and reclassification, of gain (loss) from derivative instrument designated and qualifying as cash flow hedge included in assessment of hedge effectiveness. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10A + Details Name: us-gaap_OtherComprehensiveIncomeLossCashFlowHedgeGainLossAfterReclassificationAndTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount after tax and reclassification adjustments of gain (loss) on foreign currency translation adjustments, foreign currency transactions designated and effective as economic hedges of a net investment in a foreign entity and intra-entity foreign currency transactions that are of a long-term-investment nature. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (a) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1 + Details Name: us-gaap_OtherComprehensiveIncomeLossForeignCurrencyTransactionAndTranslationAdjustmentNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount, after tax, before reclassification adjustment, of (increase) decrease in accumulated other comprehensive income of defined benefit plan, that has not been recognized in net periodic benefit cost (credit). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (j) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (k) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10A + Details Name: us-gaap_OtherComprehensiveIncomeLossPensionAndOtherPostretirementBenefitPlansAdjustmentBeforeReclassificationAdjustmentsNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_StatementOfIncomeAndComprehensiveIncomeAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 18 R6.htm IDEA: XBRL DOCUMENT v3.24.3 Unaudited Consolidated Statements of Stockholders' Equity - USD ($) shares in Thousands, $ in Thousands Common Stock Additional Paid-in Capital Accumulated Other Comprehensive Income (Loss) Retained Earnings Total Beginning Balance at Dec. 31, 2022 $ 37 $ 134,640 $ 16,320 $ 915,270 $ 1,066,267 Beginning Balance (in shares) at Dec. 31, 2022 37,429 Â Â Â Â Stock issued from equity plans Â (1,991) Â Â (1,991) Stock issued from equity plans (in shares) 100 Â Â Â Â Stock-based compensation Â 6,543 Â Â 6,543 Dividends declared ($0.10 per share) Â Â Â (3,814) (3,814) Other comprehensive income (loss) Â Â (2,013) Â (2,013) Net income (loss) Â Â Â 30,921 30,921 Ending Balance at Mar. 31, 2023 $ 37 139,192 14,307 942,377 1,095,913 Ending Balance (in shares) at Mar. 31, 2023 37,529 Â Â Â Â Beginning Balance at Dec. 31, 2022 $ 37 134,640 16,320 915,270 1,066,267 Beginning Balance (in shares) at Dec. 31, 2022 37,429 Â Â Â Â Net income (loss) Â Â Â Â 90,782 Ending Balance at Sep. 30, 2023 $ 37 139,283 5,390 956,161 1,100,871 Ending Balance (in shares) at Sep. 30, 2023 37,280 Â Â Â Â Beginning Balance at Mar. 31, 2023 $ 37 139,192 14,307 942,377 1,095,913 Beginning Balance (in shares) at Mar. 31, 2023 37,529 Â Â Â Â Stock issued from equity plans $ 1 606 Â Â 607 Stock issued from equity plans (in shares) 121 Â Â Â Â Stock-based compensation Â 7,423 Â Â 7,423 Dividends declared ($0.10 per share) Â Â Â (3,778) (3,778) Other comprehensive income (loss) Â Â (2,026) Â (2,026) Net income (loss) Â Â Â 27,140 27,140 Ending Balance at Jun. 30, 2023 $ 38 147,221 12,281 965,739 1,125,279 Ending Balance (in shares) at Jun. 30, 2023 37,650 Â Â Â Â Stock issued from equity plans Â 130 Â Â 130 Stock issued from equity plans (in shares) 8 Â Â Â Â Stock-based compensation Â 7,506 Â Â 7,506 Share repurchases $ (1) (1,530) Â (38,469) (40,000) Share repurchases (in shares) (378) Â Â Â Â Dividends declared ($0.10 per share) Â Â Â (3,830) (3,830) Other comprehensive income (loss) Â Â (6,891) Â (6,891) Warrants and note hedges, net Â (40,135) Â Â (40,135) Tax impact of convertible notes and note hedges Â 26,091 Â Â 26,091 Net income (loss) Â Â Â 32,721 32,721 Ending Balance at Sep. 30, 2023 $ 37 139,283 5,390 956,161 1,100,871 Ending Balance (in shares) at Sep. 30, 2023 37,280 Â Â Â Â Beginning Balance at Dec. 31, 2023 $ 37 148,300 6,114 989,731 $ 1,144,182 Beginning Balance (in shares) at Dec. 31, 2023 37,318 Â Â Â 37,318 Stock issued from equity plans Â (5,327) Â Â $ (5,327) Stock issued from equity plans (in shares) 116 Â Â Â Â Stock-based compensation Â 10,591 Â Â 10,591 Dividends declared ($0.10 per share) Â Â Â (3,810) (3,810) Other comprehensive income (loss) Â Â (7,969) Â (7,969) Deferred compensation Â 79 Â (79) Â Net income (loss) Â Â Â 5,216 5,216 Ending Balance at Mar. 31, 2024 $ 37 153,643 (1,855) 991,058 1,142,883 Ending Balance (in shares) at Mar. 31, 2024 37,434 Â Â Â Â Beginning Balance at Dec. 31, 2023 $ 37 148,300 6,114 989,731 $ 1,144,182 Beginning Balance (in shares) at Dec. 31, 2023 37,318 Â Â Â 37,318 Net income (loss) Â Â Â Â $ 5,340 Ending Balance at Sep. 30, 2024 $ 38 180,529 2,089 981,736 $ 1,164,392 Ending Balance (in shares) at Sep. 30, 2024 37,671 Â Â Â 37,671 Beginning Balance at Mar. 31, 2024 $ 37 153,643 (1,855) 991,058 $ 1,142,883 Beginning Balance (in shares) at Mar. 31, 2024 37,434 Â Â Â Â Stock issued from equity plans Â (173) Â Â (173) Stock issued from equity plans (in shares) 93 Â Â Â Â Stock issuance (Note 2. Acquisition) $ 1 4,463 Â Â 4,464 Stock issuance (Note 2. Acquisition) (in shares) 144 Â Â Â Â Stock-based compensation Â 10,720 Â Â 10,720 Dividends declared ($0.10 per share) Â Â Â (3,848) (3,848) Other comprehensive income (loss) Â Â (4,968) Â (4,968) Deferred compensation Â 1,033 Â (64) 969 Net income (loss) Â Â Â 15,029 15,029 Ending Balance at Jun. 30, 2024 $ 38 169,686 (6,823) 1,002,175 1,165,076 Ending Balance (in shares) at Jun. 30, 2024 37,671 Â Â Â Â Stock issued from equity plans $ 19 (529) Â Â (529) Stock-based compensation Â 11,481 Â Â 11,481 Share repurchases Â (89) Â (1,681) (1,770) Share repurchases (in shares) (19) Â Â Â Â Dividends declared ($0.10 per share) Â Â Â (3,871) (3,871) Other comprehensive income (loss) Â Â 8,912 Â 8,912 Deferred compensation Â (20) Â 18 (2) Net income (loss) Â Â Â (14,905) (14,905) Ending Balance at Sep. 30, 2024 $ 38 $ 180,529 $ 2,089 $ 981,736 $ 1,164,392 Ending Balance (in shares) at Sep. 30, 2024 37,671 Â Â Â 37,671 X - DefinitionAmount of increase (decrease) to additional paid in capital (APIC) resulting from deferred compensation. + ReferencesNo definition available. + Details Name: aeis_AdjustmentsToAdditionalPaidInCapitalDeferredCompensation Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of tax impact of convertible notes and note hedges. + ReferencesNo definition available. + Details Name: aeis_TaxImpactOfConvertibleNotesAndNoteHedges Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of warrants and note hedges, net. + ReferencesNo definition available. + Details Name: aeis_WarrantsAndNoteHedgesNet Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of increase to additional paid-in capital (APIC) for recognition of cost for award under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 20 -Section 55 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481089/718-20-55-13Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 20 -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481089/718-20-55-12 + Details Name: us-gaap_AdjustmentsToAdditionalPaidInCapitalSharebasedCompensationRequisiteServicePeriodRecognitionValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionNumber of shares of common stock outstanding. Common stock represent the ownership interest in a corporation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_CommonStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionAmount of paid and unpaid common stock dividends declared with the form of settlement in cash, stock and payment-in-kind (PIK). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 2 -SubTopic 405 -Topic 942 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477787/942-405-45-2 + Details Name: us-gaap_DividendsCommonStock Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount after tax and reclassification adjustments of other comprehensive income (loss). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481674/830-30-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-17Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-4Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 55 -Paragraph 15 -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482739/220-10-55-15Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A + Details Name: us-gaap_OtherComprehensiveIncomeLossNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe consolidated profit or loss for the period, net of income taxes, including the portion attributable to the noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-11Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 205 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478009/946-205-45-3Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-S99-1Reference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 31: http://www.xbrl.org/2003/role/exampleRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 4J -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4JReference 32: http://www.xbrl.org/2003/role/exampleRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 4K -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4KReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 34: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-2Reference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 37: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1A + Details Name: us-gaap_ProfitLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionNumber of shares issued during the period related to Restricted Stock Awards, net of any shares forfeited. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesRestrictedStockAwardNetOfForfeitures Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber, after forfeiture, of shares or units issued under share-based payment arrangement. Excludes shares or units issued under employee stock ownership plan (ESOP). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionValue of stock related to Restricted Stock Awards issued during the period, net of the stock value of such awards forfeited. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodValueRestrictedStockAwardNetOfForfeitures Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionValue, after forfeiture, of shares issued under share-based payment arrangement. Excludes employee stock ownership plan (ESOP). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_StockIssuedDuringPeriodValueShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionNumber of shares that have been repurchased and retired during the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockRepurchasedAndRetiredDuringPeriodShares Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionEquity impact of the value of stock that has been repurchased and retired during the period. The excess of the purchase price over par value can be charged against retained earnings (once the excess is fully allocated to additional paid in capital). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockRepurchasedAndRetiredDuringPeriodValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2 + Details Name: us-gaap_StockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 19 R7.htm IDEA: XBRL DOCUMENT v3.24.3 Unaudited Consolidated Statements of Stockholders' Equity (Parenthetical) - $ / shares 3 Months Ended Sep. 30, 2024 Jun. 30, 2024 Mar. 31, 2024 Sep. 30, 2023 Jun. 30, 2023 Mar. 31, 2023 Unaudited Consolidated Statements of Stockholders' Equity Â Â Â Â Â Â Dividends declared (in dollars per share) $ 0.10 $ 0.10 $ 0.10 $ 0.10 $ 0.10 $ 0.10 X - DefinitionAggregate dividends declared during the period for each share of common stock outstanding. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_CommonStockDividendsPerShareDeclared Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_StatementOfStockholdersEquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 20 R8.htm IDEA: XBRL DOCUMENT v3.24.3 Unaudited Consolidated Statements of Cash Flows - USD ($) $ in Thousands 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 CASH FLOWS FROM OPERATING ACTIVITIES: Â Â Net income $ 5,340 $ 90,782 Less: loss from discontinued operations, net of income tax (1,904) (2,076) Income from continuing operations, net of income tax 7,244 92,858 Adjustments to reconcile net income to net cash from operating activities: Â Â Depreciation and amortization 51,824 49,764 Stock-based compensation 34,303 22,813 Amortization and write off of debt issuance costs and debt discount 3,036 378 Deferred income tax benefit 305 (996) Other 1,041 394 Changes in operating assets and liabilities, net of assets acquired Â Â Accounts receivable, net 23,604 35,135 Inventories (41,187) 9,025 Other assets 576 4,121 Accounts payable (8,778) (26,203) Other liabilities and accrued expenses (21,718) (59,049) Net cash from operating activities from continuing operations 50,250 128,240 Net cash from operating activities from discontinued operations (2,191) (3,307) Net cash from operating activities 48,059 124,933 CASH FLOWS FROM INVESTING ACTIVITIES: Â Â Purchases of long-term investments (2,698) (3,447) Purchases of property and equipment (44,045) (46,782) Acquisitions, net of cash acquired (13,762) Â Net cash from investing activities (60,505) (50,229) CASH FLOWS FROM FINANCING ACTIVITIES: Â Â Proceeds from long-term borrowings Â 575,000 Payment of fees for long-term borrowings (105) (12,985) Payments on long-term borrowings (355,000) (15,000) Dividend payments (11,529) (11,422) Payment for purchase of note hedges Â (115,000) Proceeds from sale of warrants Â 74,865 Purchase and retirement of common stock (1,770) (40,000) Net payments related to stock-based awards (6,029) (1,254) Net cash from financing activities (374,433) 454,204 EFFECT OF CURRENCY TRANSLATION ON CASH AND CASH EQUIVALENTS (389) (1,795) NET CHANGE IN CASH AND CASH EQUIVALENTS (387,268) 527,113 CASH AND CASH EQUIVALENTS, beginning of period 1,044,556 458,818 CASH AND CASH EQUIVALENTS, end of period $ 657,288 $ 985,931 X - DefinitionThe net change in the reporting period in other current liabilities and accrued expenses. This includes the aggregate amount of expenses incurred but not yet paid and customer deposits and deferred revenue. + ReferencesNo definition available. + Details Name: aeis_IncreaseDecreaseInOtherCurrentLiabilitiesAndAccruedExpenses Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionNet (payments) proceeds related to stock based award activities + ReferencesNo definition available. + Details Name: aeis_NetPaymentsProceedsRelatedToStockBasedAwardActivities Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of amortization expense attributable to debt discount (premium) and debt issuance costs. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69FReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-3 + Details Name: us-gaap_AmortizationOfFinancingCostsAndDiscounts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including, but not limited to, disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsIncludingDisposalGroupAndDiscontinuedOperations Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 1 -SubTopic 230 -Topic 830 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477401/830-230-45-1 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cash inflow (outflow) of operating activities of discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5B + Details Name: us-gaap_CashProvidedByUsedInOperatingActivitiesDiscontinuedOperations Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of deferred income tax expense (benefit) pertaining to income (loss) from continuing operations. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)(1)(Note 1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph (b) -SubTopic 10 -Topic 740 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-9 + Details Name: us-gaap_DeferredIncomeTaxExpenseBenefit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22 + Details Name: us-gaap_DepreciationDepletionAndAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of increase (decrease) from effect of exchange rate changes on cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; held in foreign currencies; including, but not limited to, disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 830 -SubTopic 230 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477401/830-230-45-1 + Details Name: us-gaap_EffectOfExchangeRateOnCashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsIncludingDisposalGroupAndDiscontinuedOperations Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount after tax of income (loss) from continuing operations including portion attributable to the noncontrolling interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31 + Details Name: us-gaap_IncomeLossFromContinuingOperationsIncludingPortionAttributableToNoncontrollingInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount after tax of income (loss) from a discontinued operation including the portion attributable to the noncontrolling interest. Includes, but is not limited to, the income (loss) from operations during the phase-out period, gain (loss) on disposal, gain (loss) for reversal of write-down (write-down) to fair value, less cost to sell, and adjustments to a prior period gain (loss) on disposal. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 270 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477349/740-270-45-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3AReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3BReference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-4Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1Reference 9: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3 + Details Name: us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate amount of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInAccountsPayable Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in amount due within one year (or one business cycle) from customers for the credit sale of goods and services. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInAccountsReceivable Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate value of all inventory held by the reporting entity, associated with underlying transactions that are classified as operating activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInInventories Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncreaseDecreaseInOperatingCapitalAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of increase (decrease) in operating assets classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInOtherOperatingAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash inflow (outflow) from financing activities, including discontinued operations. Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24 + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24 + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25 + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from operating activities, excluding discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25 + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivitiesContinuingOperations Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: na Period Type: duration X - DefinitionAmount of income (expense) included in net income that results in no cash inflow (outflow), classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_OtherNoncashIncomeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow for a financial contract that meets the hedge criteria as either cash flow hedge, fair value hedge or hedge of net investment in foreign operations. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Name Accounting Standards Codification -Section 45 -Paragraph 15 -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 27 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-27 + Details Name: us-gaap_PaymentsForHedgeFinancingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow to reacquire common stock during the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsForRepurchaseOfCommonStock Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionCash outflow in the form of capital distributions and dividends to common shareholders, preferred shareholders and noncontrolling interests. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsOfDividends Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow for loan and debt issuance costs. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-

15 + Details Name: us-gaap_PaymentsOfFinancingCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash outflow to acquire investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481830/320-10-45-11Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-11 + Details Name: us-gaap_PaymentsToAcquireAvailableForSaleSecuritiesDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow associated with the acquisition of a business, net of the cash acquired from the purchase. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquireBusinessesNetOfCashAcquired Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow associated with the acquisition of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale; includes cash outflows to pay for construction of self-constructed assets. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquirePropertyPlantAndEquipment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash inflow from issuance of rights to purchase common shares at predetermined price (usually issued together with corporate debt). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromIssuanceOfWarrants Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cash inflow from contractual arrangement with the lender, including but not limited to, letter of credit, standby letter of credit and revolving credit arrangements. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromLinesOfCredit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe consolidated profit or loss for the period, net of income taxes, including the portion attributable to the noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-11Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 205 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478009/946-205-45-3Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-S99-1Reference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 31: http://www.xbrl.org/2003/role/exampleRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 4J -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4JReference 32: http://www.xbrl.org/2003/role/exampleRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 4K -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4KReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 34: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-2Reference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 37: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1A + Details Name: us-gaap_ProfitLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash outflow for payment of an obligation from a lender, including but not limited to, letter of credit, standby letter of credit and revolving credit arrangements. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap_RepaymentsOfLinesOfCredit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of noncash expense for share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_ShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration XML 21 R9.htm IDEA: XBRL DOCUMENT v3.24.3 DESCRIPTION OF BUSINESS AND BASIS OF PRESENTATION 9 Months Ended Sep. 30, 2024 DESCRIPTION OF BUSINESS AND BASIS OF PRESENTATION Â DESCRIPTION OF BUSINESS AND BASIS OF PRESENTATION

NOTEÂ 1.Â Â Â Â Â DESCRIPTION OF BUSINESS AND BASIS OF PRESENTATIONAdvanced Energy Industries, Inc., a Delaware corporation, and its consolidated subsidiaries (â€œwe,â€ â€œus,â€ â€œour,â€ â€œAdvanced Energy,â€ or the â€œCompanyâ€) provides highly engineered, critical, precision power conversion, measurement, and control solutions to our global customers. We design, manufacture, sell and support precision power products that transform, refine, and modify the raw electrical power coming from either the utility or the building facility and convert it into various types of highly controllable, usable power that is predictable, repeatable, and customizable to meet the necessary requirements for powering a wide range of complex equipment. Many of our products enable customers to reduce or optimize their energy consumption through increased power conversion efficiency, power density, power coupling, and process control across a wide range of applications.In management's opinion, the accompanying unaudited consolidated financial statements contain all adjustments, consisting of normal, recurring adjustments, necessary to present fairly Advanced Energyâ€™s financial position as of September 30, 2024, and the results of our operations and cash flows for the three and nine months ended SeptemberÂ 30,Â 2024 and 2023.The unaudited consolidated financial statements included herein have been prepared pursuant to the rulesÂ and regulations of the U.S. Securities and Exchange Commission (â€œSECâ€). Certain information and footnote disclosures normally included in financial statements prepared in accordance with accounting principles generally accepted in the United States of America (â€œU.S.Â GAAPâ€) have been omitted pursuant to such rulesÂ and regulations. These unaudited consolidated financial statements should be read in conjunction with the audited consolidated financial statements and notesÂ thereto contained in our Annual Report on FormÂ 10-K for the year ended DecemberÂ 31,Â 2023 and other financial information filed with the SEC.Use of Estimates in the Preparation of the Consolidated Financial Statements The preparation of our consolidated financial statements in conformity with U.S. GAAP requires us to make estimates, assumptions, and judgments that affect the reported amounts of assets and liabilities, the disclosure of contingent liabilities at the date of the financial statements, and the reported amounts of revenue and expenses during the reporting period. The significant estimates, assumptions, and judgments include, but are not limited to, excess and obsolete inventory, income taxes and other provisions, and acquisitions and asset valuations.â€‹Significant Accounting PoliciesOur accounting policies are described in Note 1. Summary of Operations and Significant Accounting Policies and Estimates to our audited consolidated financial statements in our Annual Report on Form 10-K for the year ended December 31, 2023. â€‹New Accounting StandardsFrom time to time, the Financial Accounting Standards Board (â€œFASBâ€) or other standards setting bodies issue new accounting pronouncements. Updates to the FASB Accounting Standards Codification (â€œASCâ€) are communicated through issuance of an Accounting Standards Update (â€œASUâ€). Unless otherwise discussed, we believe that the impact of recently issued guidance, whether adopted or to be adopted in the future, will not have a material impact on the consolidated financial statements upon adoption.New Accounting Standards Issued But Not Yet AdoptedIn November 2023, the FASB issued ASU 2023-07 â€œSegment Reporting (Topic 280) Improvements to Reportable Segment Disclosures.â€ ASU 2023-07 expands disclosure requirements to require additional information about significant segment expenses. In addition, the ASU enhances interim disclosures, clarifies circumstances in which an entity can disclose multiple segment measures of profit or loss, and provides new disclosures requirements for entities with a single reportable segment. This guidance will be effective for us in our Annual Report on Form 10-K for the year ending December 31, 2024. We do not expect the above guidance to materially impact our consolidated financial statements.In December 2023, the FASB issued ASU 2023-09 â€œImprovements to Income Tax Disclosures.â€ ASU 2023-09 requires disaggregated information about a reporting entityâ€™s effective tax rate reconciliation as well as additional disclosure on income taxes paid. This guidance will be effective for us on January 1, 2025. We do not expect the above guidance to materially impact our consolidated financial statements.In March 2024, the SEC issued climate-related disclosure rules. These rules do not change accounting treatment, but they significantly expand the climate-related information companies are required to disclose. Several petitions were filed challenging these climate-related disclosure rules and, in April 2024, the SEC voluntarily stayed the rules, pending completion of judicial review. We do not expect the above disclosure requirement to materially impact our consolidated financial statements. We are evaluating the disclosure requirements and changes to our business processes, systems, and controls to support the additional disclosures.â€‹ X - ReferencesNo definition available. + Details Name: us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for the general note to the financial statements for the reporting entity which may include, descriptions of the basis of presentation, business description, significant accounting policies, consolidations, reclassifications, new pronouncements not yet adopted and changes in accounting principles. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 235 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/235/tableOfContentReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 275 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/275/tableOfContentReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/810/tableOfContentReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 250 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/250/tableOfContent + Details Name: us-gaap_OrganizationConsolidationBasisOfPresentationBusinessDescriptionAndAccountingPoliciesTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na

Period Type: duration XML 22 R10.htm IDEA: XBRL DOCUMENT v3.24.3 ACQUISITIONS 9 Months Ended Sep. 30, 2024 ACQUISITIONS Â ACQUISITIONS â€‹â€‹NOTE 2. ACQUISITIONSOn June 20, 2024, we acquired 100% of the issued and outstanding shares of capital stock of Airity Technologies, Inc. (â€œAirityâ€), which is based in Redwood City, California. We accounted for this transaction as a business combination. Airity focuses on high voltage power conversion technologies and products, which broadens our range of targeted applications in our Semiconductor Equipment and Industrial and Medical markets.The following table summarizes the consideration paid:â€‹â€‹â€‹â€‹â€‹â€‹â€‹ConsiderationCash paid at closing â€‹$ 14,301Advanced Energy common stockâ€‹â€‹ 4,463Settlement of payablesâ€‹â€‹ (654)Indemnity holdback payable on the one-year anniversaryâ€‹â€‹ 1,500Total fair value of purchase considerationâ€‹$ 19,610â€‹We are still evaluating the fair value of the assets acquired and liabilities assumed, inclusive of the acquiredintangible assets, including their estimated useful lives, related tax impacts, and resulting goodwill. Our preliminary allocation of the fair value of purchase consideration was as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹Fair ValueCashâ€‹$ 539Current assets and liabilities, netâ€‹â€‹ 457Property and equipmentâ€‹â€‹ 42Deferred tax liabilityâ€‹â€‹ (2,229)Intangible assets â€‹â€‹ 4,200Goodwill (not deductible for tax purposes)â€‹â€‹ 16,601Total fair value of net assets acquiredâ€‹$ 19,610â€‹We included Airityâ€™s results of operations in our consolidated financial statements from the date of acquisition. In connection with the acquisition, we entered into agreements with certain former Airity employees. On the closing date, these individuals received a total of 0.1 million shares of Advanced Energy common stock valued at $15.6 million based on the June 20, 2024 closing price, of which $4.5 million was allocated to purchase consideration and $11.1 million will be future compensation. We will record the $11.1 million as stock-based compensation expense over the three-year expected vesting period. X - DefinitionThe entire disclosure for a business combination (or series of individually immaterial business combinations) completed during the period, including background, timing, and recognized assets and liabilities. The disclosure may include leverage buyout transactions (as applicable). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-5Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 805 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/805/tableOfContent + Details Name: us-gaap_BusinessCombinationDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_BusinessCombinationsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 23 R11.htm IDEA: XBRL DOCUMENT v3.24.3 REVENUE 9 Months Ended Sep. 30, 2024 REVENUE Â REVENUE NOTEÂ 3.Â Â Â Â REVENUEDisaggregation of revenueThe following tables present additional information regarding our revenue: Revenue by Marketâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024â€‹2023Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â Semiconductor Equipmentâ€‹$ 197,497â€‹$ 185,033â€‹$ 565,721â€‹$ 552,419â€‹Industrial and Medicalâ€‹Â 76,837â€‹Â 115,226â€‹Â 239,359â€‹Â 365,849â€‹Data Center Computingâ€‹â€‹ 80,653â€‹â€‹ 68,286â€‹â€‹ 195,519â€‹â€‹ 187,021â€‹Telecom and Networkingâ€‹â€‹ 19,230â€‹â€‹ 41,446â€‹â€‹ 66,040â€‹â€‹ 145,250â€‹Totalâ€‹$ 374,217â€‹$ 409,991â€‹$ 1,066,639â€‹$ 1,250,539â€‹â€‹Revenue by Regionâ€‹Three Months Ended SeptemberÂ 30,Â â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹Â Â Â Â 2024â€‹Â Â Â Â 2023â€‹Â Â Â Â 2024Â Â Â Â Â Â Â Â 2023â€‹Â Â Â Â North Americaâ€‹$ 175,691Â Â Â Â 47.0%Â Â Â Â $ 184,783Â Â Â Â 45.1%Â Â Â Â $ 482,564Â Â Â Â 45.2%Â Â Â Â $ 537,241Â Â Â Â 42.9%â€‹Asiaâ€‹â€‹ 163,212â€‹ 43.6â€‹â€‹â€‹ 178,190â€‹ 43.5â€‹â€‹â€‹ 467,110â€‹ 43.8â€‹â€‹â€‹ 543,871â€‹ 43.5â€‹â€‹Europeâ€‹â€‹ 34,892â€‹ 9.3â€‹â€‹â€‹ 46,088â€‹ 11.2â€‹â€‹â€‹ 115,258â€‹ 10.8â€‹â€‹â€‹ 164,867â€‹ 13.2â€‹â€‹Otherâ€‹Â 422â€‹ 0.1â€‹â€‹â€‹ 930â€‹ 0.2â€‹â€‹â€‹ 1,707â€‹ 0.2â€‹â€‹â€‹ 4,560â€‹ 0.4â€‹â€‹Totalâ€‹$ 374,217â€‹ 100.0%â€‹$ 409,991â€‹ 100.0%â€‹$ 1,066,639â€‹ 100.0%â€‹$ 1,250,539â€‹ 100.0%â€‹â€‹Revenue by Significant Countriesâ€‹Three Months Ended SeptemberÂ 30,Â â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹â€‹â€‹Â Â Â Â 2024â€‹Â Â Â Â 2023â€‹Â Â Â Â 2024Â Â Â Â Â Â Â Â 2023â€‹Â Â Â Â United Statesâ€‹$ 134,614Â Â Â Â 35.9%Â Â Â Â $ 156,710Â Â Â Â 38.2%Â Â Â Â $ 371,925Â Â Â Â 34.9%Â Â Â Â $ 457,325Â Â Â Â 36.6%â€‹Mexicoâ€‹â€‹ 40,953â€‹ 10.9â€‹â€‹â€‹ 27,464â€‹ 6.7â€‹â€‹â€‹ 109,768â€‹ 10.3â€‹â€‹â€‹ 77,953â€‹ 6.2â€‹â€‹Taiwanâ€‹â€‹ 40,990â€‹ 11.0â€‹â€‹â€‹ 33,136â€‹ 8.1â€‹â€‹â€‹ 119,571â€‹ 11.2â€‹â€‹â€‹ 98,842â€‹ 7.9â€‹â€‹Chinaâ€‹â€‹ 28,725â€‹ 7.7â€‹â€‹â€‹ 41,391â€‹ 10.1â€‹â€‹â€‹ 70,298â€‹ 6.6â€‹â€‹â€‹ 132,039â€‹ 10.6â€‹â€‹All othersâ€‹â€‹ 128,935â€‹ 34.5â€‹â€‹â€‹ 151,290â€‹ 36.9â€‹â€‹â€‹ 395,077â€‹ 37.0â€‹â€‹â€‹ 484,380â€‹ 38.7â€‹â€‹Totalâ€‹$ 374,217â€‹ 100.0%â€‹$ 409,991â€‹ 100.0%â€‹$ 1,066,639â€‹ 100.0%â€‹$ 1,250,539â€‹ 100.0%â€‹â€‹We attribute revenue to individual countries and regions based on the customerâ€™s ship to location. Excluding the specific countries listed above, no individual country exceeded 10% of our total consolidated revenues during the periods presented. Revenue by Categoryâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Â Â Â Â 2024â€‹2023Â Â Â Â 2024Â Â Â Â 2023Productâ€‹$ 332,647â€‹$ 369,129â€‹$ 944,279â€‹$ 1,118,284Services and otherâ€‹â€‹ 41,570Â â€‹ 40,862â€‹â€‹ 122,360Â â€‹ 132,255Totalâ€‹$ 374,217Â $ 409,991â€‹$ 1,066,639Â $ 1,250,539â€‹Other revenue includes certain spare parts and products sold by our service group.â€‹Significant CustomersDuring the three months ended September 30, 2024, Applied Materials, Inc. and Lam Research Corporation accounted for 25% and 11%, respectively, of our total revenue. During the nine months ended September 30, 2024, Applied Materials, Inc. and Lam Research Corporation accounted for 27% and 10%, respectively, of our total revenue. During the three and nine months ended September 30, 2023, Applied Materials Inc. accounted for 23% and 21%, respectively, of our total revenue. No other customerâ€™s revenue exceeded 10% of our total revenue in the periods presented.As of September 30, 2024, the account receivable balance from Applied Materials, Inc. accounted for 28% of our total accounts receivable. As of December 31, 2023, the account receivable balance from Applied Materials, Inc. accounted for 26% of our total accounts receivable. No other customerâ€™s account receivable exceeded 10% of our total accounts receivable in the periods presented. X - ReferencesNo definition available. + Details Name: us-gaap_RevenueFromContractWithCustomerAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure of revenue from contract with customer to transfer good or service and to transfer nonfinancial asset. Includes, but is not limited to, disaggregation of revenue, credit loss recognized from contract with customer, judgment and change in judgment related to contract with customer, and asset recognized from cost incurred to obtain or fulfill contract with customer. Excludes insurance and lease contracts. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-9Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-15Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-13Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Topic 606 -Publisher FASB -URI https://asc.fasb.org/606/tableOfContent + Details Name: us-gaap_RevenueFromContractWithCustomerTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 24 R12.htm IDEA: XBRL DOCUMENT v3.24.3 INCOME TAX 9 Months Ended Sep. 30, 2024 INCOME TAX Â INCOME TAX NOTEÂ 4.Â Â Â Â INCOME TAX The following table summarizes tax provision (benefit) and the effective tax rate for our income (loss) from continuing operations:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023â€‹Income (loss) from continuing operations, before income taxâ€‹$ (14,547)â€‹$ 34,525â€‹$ 11,796â€‹$ 106,263â€‹Income tax provision (benefit)â€‹$ (400)â€‹$ 874â€‹$ 4,552â€‹$ 13,405â€‹Effective tax rateâ€‹â€‹ (2.7)%â€‹ 2.5%â€‹ 38.6%â€‹ 12.6%â€‹Our effective tax rates differ from the U.S. federal statutory rate of 21% primarily due to the benefit of earnings in foreign jurisdictions which are subject to lower tax rates, as well as tax credits, partially offset by net U.S. tax on foreign operations. â€‹The previously announced Zhongshan, China factory closure impacted our effective tax rate in both the three and nine months ended September 30, 2024. For the nine months ended September 30, 2024, our effective tax rate was higher than the same period in the prior year due to smaller beneficial discrete items in the current period relative to the larger beneficial discrete items in the prior period.â€‹As of January 1, 2024, the Pillar II minimum global effective tax rate of 15% enacted by the Organization for Economic Cooperation and Development (â€œOECDâ€) was effectuated. More than 140 countries agreed to enact the Pillar II global minimum tax. However, the timing of the implementation for each country varies. To date, we have determined that there was an immaterial global minimum tax liability as a result of Pillar II, as certain tax jurisdictions either will not have Pillar II enacted until after December 31, 2024 or satisfied the safe harbor test to prevent any minimum tax under Pillar II. We continue to monitor the jurisdictions for any changes and include any appropriate minimum tax throughout the year. X - ReferencesNo definition available. + Details Name: us-gaap_IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for income tax. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12C -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12CReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12B -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12BReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 270 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477891/740-270-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.I.5.Q1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-13Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/740/tableOfContentReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-14Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 21 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-21Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 17 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-17Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 11.C) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482603/740-30-50-2 + Details Name: us-gaap_IncomeTaxDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 25 R13.htm IDEA: XBRL DOCUMENT v3.24.3 STOCKHOLDERS' EQUITY AND EARNINGS PER SHARE 9 Months Ended Sep. 30, 2024 STOCKHOLDERS' EQUITY AND EARNINGS PER SHARE Â STOCKHOLDERS' EQUITY AND EARNINGS PER SHARE NOTEÂ 5.Â Â Â Â STOCKHOLDERSâ€™ EQUITY AND EARNINGS PER SHARE Accumulated Other Comprehensive Income (Loss)The following table summarizes the components of, and changes in, accumulated other comprehensive income(loss), net of income taxes.â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Â Â Â Â â€‹Foreign Currency TranslationÂ Â Â Â â€‹Change in Fair Value of Cash Flow HedgesÂ Â Â Â â€‹Defined Employee Benefit PlanÂ Â Â Â â€‹TotalBalance at December 31, 2022â€‹$ (12,823)â€‹$ 11,848â€‹$ 17,295â€‹$ 16,320Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (196)â€‹â€‹ 595â€‹â€‹ â€”â€‹â€‹ 399Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹ (2,412)â€‹â€‹ â€”â€‹â€‹ (2,412)Balance at March 31, 2023â€‹â€‹ (13,019)â€‹â€‹ 10,031â€‹â€‹ 17,295â€‹â€‹ 14,307Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (1,533)â€‹â€‹ 2,555â€‹â€‹ â€”â€‹â€‹ 1,022Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹ (2,756)â€‹â€‹ (292)â€‹â€‹ (3,048)Balance at June 30, 2023â€‹â€‹ (14,552)â€‹â€‹ 9,830â€‹â€‹ 17,003â€‹â€‹ 12,281Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (5,069)â€‹â€‹ 1,036â€‹â€‹ â€”â€‹â€‹ (4,033)Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹ (2,858)â€‹â€‹ â€”â€‹â€‹ (2,858)Balance at September 30, 2023â€‹$ (19,621)â€‹$ 8,008â€‹$ 17,003â€‹$ 5,390â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Â Â Â Â â€‹Foreign Currency TranslationÂ Â Â Â â€‹Change in Fair Value of Cash Flow HedgesÂ Â Â Â â€‹Defined Employee Benefit PlanÂ Â Â Â â€‹TotalBalance at December 31, 2023â€‹$ (10,796)â€‹$ 5,474â€‹$ 11,436â€‹$ 6,114Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (6,589)â€‹â€‹ 1,405â€‹â€‹ â€”â€‹â€‹ (5,184)Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹ (2,785)â€‹â€‹ â€”â€‹â€‹ (2,785)Balance at March 31, 2024â€‹â€‹ (17,385)â€‹â€‹ 4,094â€‹â€‹ 11,436â€‹â€‹ (1,855)Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (2,561)â€‹â€‹ 395â€‹â€‹ â€”â€‹â€‹ (2,166)Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹ (2,751)â€‹â€‹ (51)â€‹â€‹ (2,802)Balance at June 30, 2024â€‹â€‹ (19,946)â€‹â€‹ 1,738â€‹â€‹ 11,385â€‹â€‹ (6,823)Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ 10,816â€‹â€‹ 444â€‹â€‹ (2,228)â€‹â€‹ 9,032Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ 1,585â€‹â€‹ (2,182)â€‹â€‹ 477â€‹â€‹ (120)Balance at September 30, 2024â€‹$ (7,545)â€‹$ â€”â€‹$ 9,634â€‹$ 2,089â€‹Amounts reclassified from accumulated other comprehensive income (loss) to the specific caption within theConsolidated Statements of Operations were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â Â Â Â Â Nine Months Ended SeptemberÂ 30,Â Â Â Â Â To Caption on Consolidatedâ€‹Â Â Â 2024â€‹2023â€‹Â Â Â Â 2024Â Â Â Â â€‹2023â€‹Statements of OperationsForeign currency translationâ€‹$ 1,585â€‹$ â€”â€‹$ 1,585â€‹$ â€”â€‹Other income (expense), netCash flow hedgesâ€‹â€‹ (2,182)â€‹â€‹ (2,858)â€‹â€‹ (7,718)â€‹â€‹ (8,026)â€‹Interest expenseDefined employee benefit planâ€‹â€‹ 477â€‹â€‹ â€”â€‹â€‹ 426â€‹â€‹ (292)â€‹Other income (expense), netTotal reclassificationsâ€‹$ (120)â€‹$ (2,858)â€‹$ (5,707)â€‹$ (8,318)â€‹â€‹â€‹Earnings (Loss) Per ShareThe following table summarizes our earnings per share (â€œEPSâ€):â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Income (loss) from continuing operationsâ€‹$ (14,147)â€‹$ 33,651â€‹$ 7,244â€‹$ 92,858â€‹Basic weighted-average common shares outstandingâ€‹Â 37,532â€‹Â 37,575â€‹Â 37,455â€‹Â 37,541Dilutive effect of stock awardsâ€‹Â â€”â€‹Â 279â€‹Â 330â€‹Â 301Diluted weighted-average common shares outstandingâ€‹Â 37,532â€‹Â 37,854â€‹Â 37,785â€‹Â 37,842â€‹EPS from continuing operationsâ€‹Â Â Â Â â€‹Â Â Â Â â€‹Â Â Â Â â€‹Â Â Â Â Basic EPSâ€‹$ (0.38)â€‹$ 0.90â€‹$ 0.19â€‹$ 2.47Diluted EPSâ€‹$ (0.38)â€‹$ 0.89â€‹$ 0.19â€‹$ 2.45â€‹Anti-dilutive shares not included aboveâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Stock awardsâ€‹â€‹ 371â€‹â€‹ 27â€‹â€‹ 4â€‹â€‹ 84Warrantsâ€‹â€‹ 3,076â€‹â€‹ 3,180â€‹â€‹ 3,212â€‹â€‹ 3,180Total anti-dilutive sharesâ€‹â€‹

3,447â€‹â€‹ 3,207â€‹â€‹ 3,216â€‹â€‹ 3,264â€‹We compute basic earnings per share of common stock (â€œBasic EPSâ€) by dividing income (loss) available to common stockholders by the weighted-average number of common shares outstanding during the period. â€‹See Note 18. Long-Term Debt in our Annual Report on Form 10-K for the year ended December 31, 2023 for information regarding our Convertible Notes, Note Hedges, and Warrants. For diluted earnings per share of common stock (â€œDiluted EPSâ€), we increase the weighted-average number of common shares outstanding during the period, as needed, to include the following:â—Additional common shares that would have been outstanding if our outstanding stock awards had been converted to common shares using the treasury stock method. We exclude any stock awards that have an anti-dilutive effect;â—Dilutive impact associated with the Convertible Notes using the if-converted method. The Convertible Notes are repayable in cash up to par value and in cash or shares of common stock for the excess over par value. When the stock price is lower than the strike price, there is no dilutive or anti-dilutive impact. Prior to conversion, we do not consider the Note Hedges for purposes of Diluted EPS as their effect would be anti-dilutive. Upon conversion, we expect the Note Hedges to offset the dilutive effect of the Convertible Notes when the stock price is above $137.46 but below $179.76; andâ—Dilutive effect of the Warrants issued concurrently with the Convertible Notes using the treasury stock method. For all periods presented, the Warrants did not increase the weighted-average number of common shares outstanding because the $179.76 exercise price of the Warrants exceeded the average market price of our common stock. Share RepurchaseTo repurchase shares of our common stock, we periodically enter into stock repurchase agreements. The following table summarizes these repurchases:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹(in thousands, except per share amounts)Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â Amount paid or accrued to repurchase sharesâ€‹$ 1,770â€‹$ 40,000â€‹$ 1,770â€‹$ 40,000â€‹Number of shares repurchasedâ€‹Â 19â€‹Â 378â€‹Â 19â€‹Â 378â€‹Average repurchase price per shareâ€‹$ 93.58â€‹$ 105.74â€‹$ 93.58â€‹$ 105.74â€‹â€‹At September 30, 2024, the remaining amount authorized by the Board of Directors for future share repurchases was $197.4 million with no time limitation. X - ReferencesNo definition available. + Details Name: aeis_EquityAndEarningPerShareAbstract Namespace Prefix: aeis_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for equity and earnings per share. + ReferencesNo definition available. + Details Name: aeis_EquityAndEarningsPerShareTextBlock Namespace Prefix: aeis_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 26 R14.htm IDEA: XBRL DOCUMENT v3.24.3 FAIR VALUE MEASUREMENTS 9 Months Ended Sep. 30, 2024 FAIR VALUE MEASUREMENTS Â FAIR VALUE MEASUREMENTS NOTEÂ 6.Â Â Â Â FAIR VALUE MEASUREMENTSThe following tables present information about our assets and liabilities measured at fair value on a recurring basis:â€‹SeptemberÂ 30,Â 2024Descriptionâ€‹Balance Sheet Classificationâ€‹LevelÂ 1â€‹LevelÂ 2â€‹LevelÂ 3â€‹TotalFairÂ ValueCertificates of depositâ€‹Other current assetsâ€‹$ â€”â€‹â€‹ 157â€‹â€‹ â€”â€‹$ 157Foreign currency forward contractsâ€‹Other accrued expensesâ€‹$ â€”â€‹â€‹ 168â€‹â€‹ â€”â€‹$ 168Investmentsâ€‹Other assetsâ€‹$ â€”â€‹â€‹ 9,668â€‹â€‹ â€”â€‹$ 9,668â€‹DecemberÂ 31,Â 2023Descriptionâ€‹Balance Sheet Classificationâ€‹LevelÂ 1Â Â LevelÂ 2Â Â LevelÂ 3Â Â TotalFairÂ ValueCertificates of depositâ€‹Other current assetsâ€‹$ â€”â€‹â€‹ 163â€‹â€‹ â€”â€‹$ 163Interest rate swapsâ€‹Other assetsâ€‹$ â€”â€‹â€‹ 6,995â€‹â€‹ â€”â€‹$ 6,995Investmentsâ€‹Other assetsâ€‹$ â€”â€‹â€‹ 5,952â€‹â€‹ â€”â€‹$ 5,952â€‹ X - ReferencesNo definition available. + Details Name: us-gaap_FairValueDisclosuresAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for the fair value of financial instruments (as defined), including financial assets and financial liabilities (collectively, as defined), and the measurements of those instruments as well as disclosures related to the fair value of non-financial assets and liabilities. Such disclosures about the financial instruments, assets, and liabilities would include: (1) the fair value of the required items together with their carrying amounts (as appropriate); (2) for items for which it is not practicable to estimate fair value, disclosure would include: (a) information pertinent to estimating fair value (including, carrying amount, effective interest rate, and maturity, and (b) the reasons why it is not practicable to estimate fair value; (3) significant concentrations of credit risk including: (a) information about the activity, region, or economic characteristics identifying a concentration, (b) the maximum amount of loss the entity is exposed to based on the gross fair value of the related item, (c) policy for requiring collateral or other security and information as to accessing such collateral or security, and (d) the nature and brief description of such collateral or security; (4) quantitative information about market risks and how such risks are managed; (5) for items measured on both a recurring and nonrecurring basis information regarding the inputs used to develop the fair value measurement; and (6) for items presented in the financial statement for which fair value measurement is elected: (a) information necessary to understand the reasons for the election, (b) discussion of the effect of fair value changes on earnings, (c) a description of [similar groups] items for which the election is made and the relation thereof to the balance sheet, the aggregate carrying value of items included in the balance sheet that are not eligible for the election; (7) all other required (as defined) and desired information. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 107 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-107Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2E -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2EReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 940 -SubTopic 820 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478119/940-820-50-1 + Details Name: us-gaap_FairValueDisclosuresTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 27 R15.htm IDEA: XBRL DOCUMENT v3.24.3 DERIVATIVE FINANCIAL INSTRUMENTS 9 Months Ended Sep. 30, 2024 DERIVATIVE FINANCIAL INSTRUMENTS Â DERIVATIVE FINANCIAL INSTRUMENTS NOTEÂ 7.Â Â Â Â DERIVATIVE FINANCIAL INSTRUMENTSChanges in foreign currency exchange rates impact our results of operations and cash flows. We may manage these risks through the use of derivative financial instruments, primarily forward contracts with banks. These forward contracts manage the exchange rate risk associated with assets and liabilities denominated in nonfunctional currencies. Typically, we execute these derivative instruments for one-month periods and do not designate them as hedges; however, they do partially offset the economic fluctuations of certain of our assets and liabilities due to foreign exchange rate changes. At September 30, 2024 we have $105.9 million foreign currency forward contracts outstanding. There were no foreign currency forward contracts outstanding at December 31, 2023.Gains and losses related to foreign currency exchange contracts were offset by corresponding gains and losses on the revaluation of the underlying assets and liabilities. Both are included as a component of other income (expense), net in our Consolidated Statements of Operations. We had interest rate swap contracts that fixed a portion of the interest payments on our Term Loan Facility. The interest rate swap contracts expired on September 10, 2024. In connection with the expiration, there are no longer any related balances for these contracts within accumulated other comprehensive income on the Consolidated Balance Sheets as of September 30, 2024. See Note 16. Long-Term Debt for information regarding the Term Loan Facility.See Note 6. Fair Value Measurements for information regarding fair value of derivative instruments.As a result of using derivative financial instruments, we are exposed to the risk that counterparties to contracts could fail to meet their contractual obligations. We manage this credit risk by reviewing counterparty creditworthiness on a regular basis and limiting exposure to any single counterparty. X - ReferencesNo definition available. + Details Name: us-gaap_DerivativeInstrumentsAndHedgingActivitiesDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for derivative instruments and hedging activities including, but not limited to, risk management strategies, non-hedging derivative instruments, assets, liabilities, revenue and expenses, and methodologies and assumptions used in determining the amounts. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480237/815-40-50-5Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-5CReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 815 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/815/tableOfContent + Details Name: us-gaap_DerivativeInstrumentsAndHedgingActivitiesDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 28 R16.htm IDEA: XBRL DOCUMENT v3.24.3 ACCOUNTS RECEIVABLE, NET 9 Months Ended Sep. 30, 2024 ACCOUNTS RECEIVABLE, NET Â ACCOUNTS RECEIVABLE, NET NOTEÂ 8.Â Â Â Â ACCOUNTS RECEIVABLE, NETWe record accounts receivable at net realizable value. Our accounts receivable, net balance on the Consolidated Balance Sheets was $259.4 million at September 30, 2024. The following table summarizes the changes in expected credit losses related to receivables:â€‹â€‹â€‹â€‹â€‹December 31, 2023Â Â Â $ 1,762Additionsâ€‹Â 94Deductions - write-offs, net of recoveriesâ€‹â€‹ (399)September 30, 2024â€‹$ 1,457â€‹ X - DefinitionThe entire disclosure for accounts receivable, contract receivable, receivable held-for-sale, and nontrade receivable. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/310/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/326/tableOfContent + Details Name: us-gaap_AccountsAndNontradeReceivableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_ReceivablesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 29 R17.htm IDEA: XBRL DOCUMENT v3.24.3 INVENTORIES 9 Months Ended Sep. 30, 2024 INVENTORIES Â INVENTORIES NOTEÂ 9.Â Â Â Â INVENTORIESWe value inventories at the lower of cost or net realizable value, computed on a first-in, first-out basis. Components of inventories were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Parts and raw materialsâ€‹$ 273,793â€‹$ 249,698Work in processâ€‹Â 19,502â€‹Â 14,595Finished goodsâ€‹Â 84,445â€‹Â 71,844Totalâ€‹$ 377,740â€‹$ 336,137â€‹ X - ReferencesNo definition available. + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for inventory. Includes, but is not limited to, the basis of stating inventory, the method of determining inventory cost, the classes of inventory, and the nature of the cost elements included in inventory. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 330 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/330/tableOfContent + Details Name: us-gaap_InventoryDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 30 R18.htm IDEA: XBRL DOCUMENT v3.24.3 INTANGIBLE ASSETS AND GOODWILL 9 Months Ended Sep. 30, 2024 INTANGIBLE ASSETS AND GOODWILL Â INTANGIBLE ASSETS AND GOODWILL NOTEÂ 10.Â Â Â Â INTANGIBLE ASSETS AND GOODWILLIntangible assets consisted of the following:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â 2024â€‹Â Â Â Â GrossÂ CarryingÂ Â Â Â Â AccumulatedÂ Â Â Â Â NetÂ CarryingÂ Â Â Â Â Weighted Average Remainingâ€‹â€‹Amountâ€‹Amortizationâ€‹AmountÂ Useful Life (in years)Technologyâ€‹$ 100,988â€‹$ (69,407)â€‹$ 31,581â€‹7.1Customer relationshipsâ€‹Â 170,486â€‹â€‹ (68,944)â€‹Â 101,542â€‹8.8Trademarks and otherâ€‹Â 27,219â€‹â€‹ (15,052)â€‹Â 12,167â€‹4.9Totalâ€‹$ 298,693â€‹$ (153,403)â€‹$ 145,290â€‹8.1â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹DecemberÂ 31,Â 2023â€‹Â Â Â Â GrossÂ CarryingÂ Â Â Â Â AccumulatedÂ Â Â Â Â NetÂ Carryingâ€‹Weighted Average Remainingâ€‹â€‹Amountâ€‹Amortizationâ€‹Â Amountâ€‹Useful Life (in years)Technologyâ€‹$ 97,961â€‹$ (60,412)â€‹$ 37,549â€‹6.8Customer relationshipsâ€‹Â 168,685â€‹â€‹ (58,835)â€‹Â 109,850â€‹9.5Trademarks and otherâ€‹Â 27,141â€‹â€‹ (13,062)â€‹Â 14,079â€‹5.6Totalâ€‹$ 293,787â€‹$ (132,309)â€‹$ 161,478â€‹8.5â€‹Amortization expense related to intangible assets is as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023â€‹Amortization expenseâ€‹$ 6,772â€‹$ 7,049â€‹$ 20,519â€‹$ 21,186â€‹â€‹Estimated future amortization expense related to intangibles is as follows:â€‹â€‹â€‹â€‹â€‹Year Ending DecemberÂ 31,Â Â Â Â Â Â â€‹â€‹2024 (remaining)â€‹$ 5,5732025â€‹Â 22,1482026â€‹Â 20,0632027â€‹Â 17,8152028â€‹â€‹ 16,569Thereafterâ€‹Â 63,122Totalâ€‹$ 145,290â€‹â€‹â€‹â€‹â€‹The following table summarizes the changes in goodwill:â€‹â€‹â€‹â€‹â€‹December 31, 2023â€‹$ 283,840Additions from acquisitionâ€‹â€‹ 16,601Foreign currency translation and otherâ€‹â€‹ (1,405)September 30, 2024Â Â Â Â $ 299,036â€‹ X - ReferencesNo definition available. + Details Name: us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for goodwill and intangible assets. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/350-30/tableOfContentReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/350-20/tableOfContent + Details Name: us-gaap_GoodwillAndIntangibleAssetsDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 31 R19.htm IDEA: XBRL DOCUMENT v3.24.3 RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGES 9 Months Ended Sep. 30, 2024 RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGES Â RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGES NOTEÂ 11.Â Â Â Â RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGESDetails of restructuring, asset impairments, and other charges are as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹2024â€‹2023Â Â Â Â 2024â€‹2023â€‹RestructuringÂ Â Â Â $ 27,790â€‹$ 4,709â€‹$ 27,844â€‹$ 8,906â€‹Other chargesâ€‹â€‹ 756â€‹â€‹ â€”â€‹â€‹ 1,572â€‹â€‹ â€”â€‹Total restructuring, asset impairments, and other chargesâ€‹$ 28,546Â $ 4,709Â $ 29,416Â $ 8,906â€‹â€‹Restructuring We have the following restructuring plans in process:2024 PlanOn July 29, 2024, we approved actions in furtherance of our previously announced manufacturing consolidation initiatives intended to optimize our manufacturing footprint and cost structure, including the previously announced closure of our Zhongshan, China facility (the â€œ2024 Planâ€). In connection with the 2024 Plan, we recorded a $28.5 million charge during the third quarter of 2024 primarily associated with expected employment-related charges for, among other things, one-time cash payments for severance, benefits expenses, payroll taxes, and other ancillary costs. The charge includes estimated liabilities for lease termination and facility exit costs, which could be subject to further adjustments. The remaining contractual rental obligations under the lease agreements are recorded in current portion of operating lease liabilities and operating lease liabilities on our Consolidated Balance Sheets.We expect to incur $1.0 million to $2.0 million in additional charges related to our announced actions and continue to evaluate our operations and cost structure, which could result in incremental restructuring charges in future periods. We anticipate the 2024 Plan will be substantially completed by the second quarter of 2025, with final activities concluding in 2026. 2023 PlanIn 2023, we approved a plan intended to optimize and further consolidate our manufacturing operations and functional support groups as well as a general reduction-in-force to align our expenses to revenue levels (the â€œ2023 Planâ€). We expect to incur approximately $1.0 million in additional charges through the second quarter of 2025. We anticipate the 2023 Plan will be substantially completed by the end of 2024, with the final activities concluding in the second quarter of 2025. 2022 PlanThis plan was approved to improve our operating efficiencies and drive the realization of synergies from our business combinations by consolidating our operations, optimizing our factory footprint, including moving certain production into our higher volume factories, reducing redundancies, and lowering our cost structure. The 2022 Plan is now complete. Changes in restructuring liabilities were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Â Â Â Â 2024 PlanÂ Â Â Â 2023 PlanÂ Â Â Â 2022 PlanÂ Â Â Â OtherÂ Â Â Â TotalDecember 31, 2023â€‹$ â€”â€‹$ 14,224â€‹$ 2,930â€‹$ 188â€‹$ 17,342Costs incurred and charged to expenseâ€‹â€‹ 28,454â€‹â€‹ (698)â€‹â€‹ 88â€‹â€‹ â€”â€‹â€‹ 27,844Costs paidâ€‹â€‹ (855)â€‹â€‹ (7,653)â€‹â€‹ (3,018)â€‹â€‹ (188)â€‹â€‹ (11,714)Foreign currency translationâ€‹â€‹ 457â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 457September 30, 2024â€‹$ 28,056â€‹$ 5,873â€‹$ â€”â€‹$ â€”â€‹$ 33,929â€‹$28.3 million of the above restructuring liability is included in other accrued expenses and $5.6 million is included in other long-term liabilities on our Consolidated Balance Sheets.Charges related to our restructuring plans are as follows:â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹2024â€‹2023â€‹2024â€‹2023â€‹Severance and related chargesÂ Â Â Â $ 27,356Â Â Â Â $ 4,709Â Â Â Â $ 27,410Â Â Â Â $ 8,906â€‹Facility relocation and closure chargesâ€‹â€‹ 434Â â€‹ â€”Â â€‹ 434Â â€‹ â€”â€‹Total restructuring chargesâ€‹$ 27,790Â $ 4,709Â $ 27,844Â $ 8,906â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Cumulative Cost Throughâ€‹â€‹SeptemberÂ 30,Â 2024â€‹Â Â Â Â 2024 PlanÂ Â Â Â 2023 PlanÂ Â Â Â 2022 PlanÂ Â Â Â TotalSeverance and related chargesÂ Â Â Â $ 28,020â€‹$ 16,405â€‹$ 14,075â€‹$ 58,500Facility relocation and closure chargesâ€‹â€‹ 434â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 434Total restructuring chargesâ€‹$ 28,454â€‹$ 16,405â€‹$ 14,075â€‹$ 58,934â€‹Other ChargesOther charges relate to vacating and relocating facilities. X - ReferencesNo definition available. + Details Name: us-gaap_RestructuringCostsAndAssetImpairmentChargesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure of costs incurred for restructuring including, but not limited to, exit and disposal activities, remediation, implementation, integration, asset impairment, and charges against earnings from the write-down of assets. + ReferencesNo definition available. + Details Name: us-gaap_RestructuringImpairmentAndOtherActivitiesDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 32 R20.htm IDEA: XBRL DOCUMENT v3.24.3 WARRANTIES 9 Months Ended Sep. 30, 2024 WARRANTIES Â WARRANTIES NOTEÂ 12.Â Â Â Â WARRANTIES Our sales agreements include customary product warranty provisions, which generally range from 12 to 36 months after shipment. We record the estimated warranty obligations cost when we recognize revenue. This estimate is based on historical experience by product and configuration.We include warranty obligation in other accrued expenses in our Consolidated Balance Sheets. Changes in our product warranty obligation were as follows:â€‹â€‹â€‹â€‹â€‹December 31, 2023â€‹$ 4,007Net increases to accrualsâ€‹Â 2,088Warranty expendituresâ€‹Â (1,640)Effect of changes in exchange ratesâ€‹Â 155September 30, 2024â€‹$ 4,610â€‹ X - ReferencesNo definition available. + Details Name: us-gaap_ProductWarrantiesDisclosuresAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for standard and extended product warranties and other product guarantee contracts, including a tabular reconciliation of the changes in the guarantor's aggregate product warranty liability for the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a)(5) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4 + Details Name: us-gaap_ProductWarrantyDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 33 R21.htm IDEA: XBRL DOCUMENT v3.24.3 LEASES 9 Months Ended Sep. 30, 2024 LEASES Â LEASES NOTEÂ 13.Â Â Â Â LEASESComponents of total operating lease cost were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Operating lease costâ€‹$ 5,859â€‹$ 5,629â€‹$ 17,575â€‹$ 16,965Short-term and variable lease costâ€‹â€‹ 897â€‹â€‹ 1,100â€‹â€‹ 2,474â€‹â€‹ 3,170Total operating lease costâ€‹$ 6,756â€‹$ 6,729â€‹$ 20,049â€‹$ 20,135â€‹Estimated future payments on our operating lease liabilities are as follows:â€‹â€‹â€‹â€‹â€‹Year Ending December 31,Â Â Â Â â€‹â€‹2024 (remaining)â€‹$ 6,1272025â€‹Â 22,5572026â€‹Â 17,0772027â€‹â€‹ 13,6162028â€‹â€‹ 13,171Thereafterâ€‹â€‹ 50,930Total lease paymentsâ€‹â€‹ 123,478Less: Interestâ€‹â€‹ (24,854)Present value of lease liabilitiesâ€‹$ 98,624â€‹In addition to the above, we have lease agreements with total payments of $32.8 million that commence on various dates in 2024 and 2025 and extend through 2040.In connection with the closure of our Zhongshan, China facility under the 2024 Plan (see Note 11. Restructuring, Asset Impairments, and Other Charges), we expect to terminate the facilityâ€™s lease agreement before its expiration. During the third quarter of 2024, we reduced both the operating lease right-of-use asset and operating lease liability by $20.7 million.The following tables present additional information about our lease agreements:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â â€‹â€‹DecemberÂ 31,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â Â Â Â Â 2023â€‹Weighted average remaining lease term (in years)â€‹â€‹ 7.8â€‹â€‹â€‹ 8.3â€‹Weighted average discount rateâ€‹Â 5.5%â€‹â€‹ 5.0%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â Cash paid for operating leases$ 5,823â€‹$ 5,683â€‹$ 17,476â€‹$ 17,290â€‹Right-of-use assets obtained in exchange for operating lease liabilities$ 7,367â€‹$ 9,271â€‹$ 25,784â€‹$ 11,900â€‹â€‹ X - ReferencesNo definition available. + Details Name: us-gaap_LeasesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for operating leases of lessee. Includes, but is not limited to, description of operating lease and maturity analysis of operating lease liability. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/842-20/tableOfContent + Details Name: us-gaap_LesseeOperatingLeasesTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 34 R22.htm IDEA: XBRL DOCUMENT v3.24.3 STOCK-BASED COMPENSATION 9 Months Ended Sep. 30, 2024 STOCK-BASED COMPENSATION Â STOCK-BASED COMPENSATION â€‹â€‹NOTEÂ 14.Â Â Â Â STOCK-BASED COMPENSATIONThe Compensation Committee of our Board of Directors administers our stock plans. As of September 30, 2024, we had two active stock-based incentive compensation plans: the Amended and Restated 2023 Omnibus Incentive Plan (the â€œ2023 Incentive Planâ€) and the Employee Stock Purchase Plan (â€œESPPâ€). The 2023 Incentive Plan was approved by stockholders on April 27, 2023 and amended and restated on November 2, 2023. We issue all new equity compensation grants under the 2023 Incentive Plan; however, outstanding awards previously issued under now inactive plans will continue to vest and remain exercisable in accordance with the terms of the respective plans.The 2023 Incentive Plan provides for the grant of awards including stock options, stock appreciation rights,Â performance stock units, performance units, stock, restricted stock, restricted stock units, and cash incentive awards.The following table summarizes information related to our stock-based incentive compensation plans:â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â 2024Shares available for future issuance under the 2023 Incentive Planâ€‹ 1,809Shares available for future issuance under the ESPPâ€‹ 556â€‹Stock-Based Compensation ExpenseWe recognize stock-based compensation expense based on the fair value of the awards issued and the functional area of the employee receiving the award. During the nine months ended September 30, 2024, stock-based compensation expense includes $1.8 million related to a modification for accounting purposes of prior awards. Stock-based compensation was as follows: â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â Stock-based compensation expenseâ€‹$ 11,914â€‹$ 8,075â€‹$ 34,303â€‹$ 22,813â€‹â€‹See Note 2. Acquisitions for information regarding future stock-based compensation expense related to the Airity acquisition. Restricted Stock UnitsGenerally, we grant restricted stock units (â€œRSUsâ€) with a three year time-based vesting schedule. Certain RSUs contain performance-based or market-based vesting conditions in addition to the time-based vesting requirements. RSUs are generally granted with a grant date fair value based on the market price of our stock on the date of grant. â€‹Changes in our RSUs were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â 2024â€‹Â Â Â Â â€‹Â Â Â Â Weighted-â€‹â€‹â€‹â€‹Averageâ€‹â€‹Number ofâ€‹Grant Dateâ€‹â€‹RSUsâ€‹Fair ValueRSUs outstanding at beginning of periodÂ 917â€‹$ 85.96RSUs grantedÂ 546â€‹$ 104.79RSUs vestedÂ (286)â€‹$ 90.22RSUs forfeitedÂ (87)â€‹$ 77.73RSUs outstanding at end of periodÂ 1,090â€‹$ 94.92â€‹Stock OptionsGenerally, we grant stock option awards with an exercise price equal to the market price of our stock at the date of grant and with either a three or four-year vesting schedule or performance-based vesting. Stock option awards generally have a term of ten years.Changes in our stock options were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â 2024â€‹Â Â Â Â â€‹Â Â Â Â Weighted-â€‹â€‹â€‹â€‹Averageâ€‹â€‹Number ofâ€‹ExerciseÂ Priceâ€‹â€‹Optionsâ€‹per ShareOptions outstanding at beginning of periodÂ 89â€‹$ 76.69Options exercisedÂ (10)â€‹$ 26.32Options outstanding at end of periodÂ 79â€‹$ 83.05â€‹ X - DefinitionThe entire disclosure for share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/718/tableOfContentReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (l) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 35 R23.htm IDEA: XBRL DOCUMENT v3.24.3 COMMITMENTS AND CONTINGENCIES 9 Months Ended Sep. 30, 2024 COMMITMENTS AND CONTINGENCIES Â COMMITMENTS AND CONTINGENCIES NOTEÂ 15.Â Â Â Â COMMITMENTS AND CONTINGENCIESWe are involved in disputes and legal actions arising in the normal course of our business. While we currently believe that the amount of any ultimate loss would not be material to our financial position, the outcome of these actions is inherently difficult to predict. In the event of an adverse outcome, the ultimate loss could have a material adverse effect on our financial position or reported results of operations. An unfavorable decision in intellectual property litigation also could require material changes in production processes and products or result in our inability to ship products or components found to have violated third party intellectual property rights. We accrue loss contingencies in connection with our commitments and contingencies, including litigation, when it is probable that a loss has occurred, and the amount of such loss can be reasonably estimated. We are not currently a party to any legal action that we believe would have a material adverse impact on our business, financial condition, results of operations or cash flows. We maintain defined benefit pension plans for certain of our non-U.S. employees, including the United Kingdom. In light of the United Kingdomâ€™s High Court ruling in the case of Virgin Media Ltd v. NTL Pension Trustees II Ltd & Ors, which was recently upheld on appeal, we are reviewing past amendments made to our United Kingdom pension plans to evaluate whether any changes were implemented in conflict with section 37 of the United Kingdom Pension Schemes Act 1993. Should there be a challenge to any previous amendments to our pension plan in the United Kingdom, we could face potential litigation and compliance risks. We continue to account for our United Kingdom pension arrangements in accordance with the plan agreements and amendments, as we believe they represent a mutual understanding and agreement among all parties. X - ReferencesNo definition available. + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for commitments and contingencies. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 405 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/405-30/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482648/440-10-50-4Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/450/tableOfContentReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 954 -SubTopic 440 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478522/954-440-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482648/440-10-50-4Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 440 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/440/tableOfContent + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 36 R24.htm IDEA: XBRL DOCUMENT v3.24.3 LONG-TERM DEBT 9 Months Ended Sep. 30, 2024 LONG-TERM DEBT Â LONG-TERM DEBT â€‹â€‹NOTEÂ 16. LONG-TERM DEBTLong-term debt on our Consolidated Balance Sheets consists of the following:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Convertible Notes due 2028â€‹$ 575,000â€‹$ 575,000Term Loan Facilityâ€‹â€‹ â€”â€‹â€‹ 355,000Gross long-term debt, including current maturitiesâ€‹â€‹ 575,000â€‹â€‹ 930,000Less: debt discountâ€‹â€‹ (11,000)â€‹â€‹ (14,321)Net long-term debt, including current maturitiesâ€‹â€‹ 564,000â€‹â€‹ 915,679Less: current maturitiesâ€‹â€‹ â€”â€‹â€‹ (20,000)Net long-term debtâ€‹$ 564,000â€‹$ 895,679â€‹For all periods presented, we were in compliance with the covenants under all debt agreements.The following table summarizes interest expense related to our debt:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023â€‹Interest expenseâ€‹$ 5,736â€‹$ 3,528â€‹$ 18,403â€‹$ 8,818â€‹Amortization of debt issuance costsâ€‹â€‹ 794â€‹â€‹ 245â€‹â€‹ 2,469â€‹â€‹ 509â€‹Capitalized interestâ€‹â€‹ (157)â€‹â€‹ â€”â€‹â€‹ (428)â€‹â€‹ â€”â€‹Total interest expense related to debtâ€‹$ 6,373â€‹$ 3,773â€‹$ 20,444â€‹$ 9,327â€‹â€‹Credit AgreementOur credit agreement dated as of September 10, 2019, as amended (the â€œCredit Agreementâ€) consist of a senior unsecured term loan facility (â€œTerm Loan Facilityâ€) and a senior unsecured revolving facility (â€œRevolving Facilityâ€), both maturing on September 9, 2026. On September 9, 2024, we entered into an amendment to the Credit Agreement to increase the capacity on the Revolving Facility from $200.0 million to $600.0 million. This amendment was in connection with the concurrent prepayment, using existing cash on hand, of the full $345.0 million outstanding principal balance under our Term Loan Facility.For all periods presented, no amounts were outstanding on the Revolving Facility. The following table summarizes our availability to withdraw on the Revolving Facility: â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Available capacity on Revolving Facilityâ€‹$ 600,000â€‹$ 200,000â€‹In addition to our available capacity on the Revolving Facility, prior to the maturity date of the Credit Agreement, we may request an increase to the financing commitments in either the Term Loan Facility or Revolving Facility by an aggregate amount not to exceed $250.0 million. Any requested increase is subject to lender approval.â€‹The interest rate swap contracts previously entered into relative to the Term Loan Facility expired on September 10, 2024. Should we have future borrowings under the Term Loan Facility or Revolving Facility, they will bear interest, at our option, at a rate based on the Base Rate or SOFR, as defined in the Credit Agreement, plus an applicable margin. Convertible Senior Notes due 2028On September 12, 2023, we completed a private, unregistered offering of $575.0 million aggregate principal amount of 2.50% convertible senior notes due 2028 (â€œConvertible Notesâ€). The $564.0 million remaining outstanding principal amount of the Convertible Notes, net of unamortized issuance costs, continues to be classified as long-term debt as none of the conversion triggers occurred as of September 30, 2024. The redemption price is 100% of the principal amount plus accrued and unpaid interest. The Convertible Notes mature on September 15, 2028, unless earlier repurchased, redeemed, or converted. Interest is payable semi-annually in arrears in March and September. Concurrent with the Convertible Notes issuance, we entered into hedges and sold warrants with respect to our common stock. In combination, the hedges and warrants synthetically increase the initial conversion price on the Convertible Notes from $137.46 to $179.76, reducing the potential dilutive effect.We use level 2 measurements to estimate the fair value of our debt. As of September 30, 2024, we estimate the fair value of our Convertible Notes to be $598.2 million. X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for information about short-term and long-term debt arrangements, which includes amounts of borrowings under each line of credit, note payable, commercial paper issue, bonds indenture, debenture issue, own-share lending arrangements and any other contractual agreement to repay funds, and about the underlying arrangements, rationale for a classification as long-term, including repayment terms, interest rates, collateral provided, restrictions on use of assets and activities, whether or not in compliance with debt covenants, and other matters important to users of the financial statements, such as the effects of refinancing and noncompliance with debt covenants. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(c)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 470 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/470/tableOfContentReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1CReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1CReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1CReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1I + Details Name: us-gaap_DebtDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 37 R25.htm IDEA: XBRL DOCUMENT v3.24.3 SUPPLEMENTAL CASH FLOW INFORMATION AND OTHER DISCLOSURES 9 Months Ended Sep. 30, 2024 SUPPLEMENTAL CASH FLOW INFORMATION AND OTHER DISCLOSURES Â SUPPLEMENTAL CASH FLOW INFORMATION AND OTHER DISCLOSURES NOTE 17. SUPPLEMENTAL CASH FLOW INFORMATION AND OTHER DISCLOSURESCertain of our cash and non-cash activities were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹2024Â Â Â Â 2023â€‹Non-cash investing activities:â€‹â€‹â€‹â€‹â€‹â€‹â€‹Capital expenditures in accounts payable and other accrued expensesâ€‹$ 7,200â€‹$ 7,699â€‹Cash paid for:â€‹â€‹â€‹â€‹â€‹â€‹â€‹Interest expenseâ€‹$ 17,975â€‹$ 8,060â€‹Income taxesâ€‹$ 29,041â€‹$ 45,040â€‹Cash received from income taxesâ€‹$ 1,627â€‹$ 828â€‹Depreciation expenseâ€‹$ 31,305â€‹$ 28,578â€‹â€‹ X - DefinitionThe entire disclosure for supplemental cash flow activities, including cash, noncash, and part noncash transactions, for the period. Noncash is defined as information about all investing and financing activities of an enterprise during a period that affect recognized assets or liabilities but that do not result in cash receipts or cash payments in the period. "Part noncash" refers to that portion of the transaction not resulting in cash receipts or cash payments in the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/230/tableOfContent + Details Name: us-gaap_CashFlowSupplementalDisclosuresTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_SupplementalCashFlowInformationAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 38 R26.htm IDEA: XBRL DOCUMENT v3.24.3 Pay vs Performance Disclosure - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Pay vs Performance Disclosure Â Â Â Â Net Income (Loss) $ (14,905) $ 32,721 $ 5,340 $ 90,782 X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 402 -Subsection v -Paragraph 1 + Details Name: ecd_PvpTable Namespace Prefix: ecd_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI 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http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 39 R27.htm IDEA: XBRL DOCUMENT v3.24.3 Insider Trading Arrangements 3 Months Ended Sep. 30, 2024 Trading Arrangements, by Individual Â Rule 10b5-1 Arrangement Adopted false Non-Rule 10b5-1 Arrangement Adopted false Rule 10b5-1 Arrangement Terminated false Non-Rule 10b5-1 Arrangement Terminated false X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_NonRule10b51ArrAdoptedFlag Namespace Prefix: ecd_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_NonRule10b51ArrTrmntdFlag Namespace Prefix: ecd_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_Rule10b51ArrAdoptedFlag Namespace Prefix: ecd_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_Rule10b51ArrTrmntdFlag Namespace Prefix: ecd_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 2 -Subparagraph A + Details Name: ecd_TradingArrByIndTable Namespace Prefix: ecd_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 40 R28.htm IDEA: XBRL DOCUMENT v3.24.3 DESCRIPTION OF BUSINESS AND BASIS OF PRESENTATION (Policies) 9 Months Ended Sep. 30, 2024 DESCRIPTION OF BUSINESS AND BASIS OF PRESENTATION Â Use of Estimates in the Preparation of the Consolidated Financial Statements Use of Estimates in the Preparation of the Consolidated Financial Statements The preparation of our consolidated financial statements in conformity with U.S. GAAP requires us to make estimates, assumptions, and judgments that affect the reported amounts of assets and liabilities, the disclosure of contingent liabilities at the date of the financial statements, and the reported amounts of revenue and expenses during the reporting period. The significant estimates, assumptions, and judgments include, but are not limited to, excess and obsolete inventory, income taxes and other provisions, and acquisitions and asset valuations.â€‹ Significant Accounting Policies Significant Accounting PoliciesOur accounting policies are described in Note 1. Summary of Operations and Significant Accounting Policies and Estimates to our audited consolidated financial statements in our Annual Report on Form 10-K for the year ended December 31, 2023. New Accounting Standards â€‹New Accounting StandardsFrom time to time, the Financial Accounting Standards Board (â€œFASBâ€) or other standards setting bodies issue new accounting pronouncements. Updates to the FASB Accounting Standards Codification (â€œASCâ€) are communicated through issuance of an Accounting Standards Update (â€œASUâ€). Unless otherwise discussed, we believe that the impact of recently issued guidance, whether adopted or to be adopted in the future, will not have a material impact on the consolidated financial statements upon adoption.New Accounting Standards Issued But Not Yet AdoptedIn November 2023, the FASB issued ASU 2023-07 â€œSegment Reporting (Topic 280) Improvements to Reportable Segment Disclosures.â€ ASU 2023-07 expands disclosure requirements to require additional information about significant segment expenses. In addition, the ASU enhances interim disclosures, clarifies circumstances in which an entity can disclose multiple segment measures of profit or loss, and provides new disclosures requirements for entities with a single reportable segment. This guidance will be effective for us in our Annual Report on Form 10-K for the year ending December 31, 2024. We do not expect the above guidance to materially impact our consolidated financial statements.In December 2023, the FASB issued ASU 2023-09 â€œImprovements to Income Tax Disclosures.â€ ASU 2023-09 requires disaggregated information about a reporting entityâ€™s effective tax rate reconciliation as well as additional disclosure on income taxes paid. This guidance will be effective for us on January 1, 2025. We do not expect the above guidance to materially impact our consolidated financial statements.In March 2024, the SEC issued climate-related disclosure rules. These rules do not change accounting treatment, but they significantly expand the climate-related information companies are required to disclose. Several petitions were filed challenging these climate-related disclosure rules and, in April 2024, the SEC voluntarily stayed the rules, pending completion of judicial review. We do not expect the above disclosure requirement to materially impact our consolidated financial statements. We are evaluating the disclosure requirements and changes to our business processes, systems, and controls to support the additional disclosures.â€‹ X - DefinitionDisclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity's financial reporting. Includes, but is not limited to, quantification of the expected or actual impact. + ReferencesNo definition available. + Details Name: us-gaap_NewAccountingPronouncementsPolicyPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for all significant accounting policies of the reporting entity. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483426/235-10-50-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 235 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/235/tableOfContent + Details Name: us-gaap_SignificantAccountingPoliciesTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for the use of estimates in the preparation of financial statements in conformity with generally accepted accounting principles. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-9Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-4Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 11 -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 12 -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-12Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-8 + Details Name: us-gaap_UseOfEstimates Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 41 R29.htm IDEA: XBRL DOCUMENT v3.24.3 ACQUISITIONS (Tables) 9 Months Ended Sep. 30, 2024 ACQUISITIONS Â Schedule of consideration paid â€‹â€‹â€‹â€‹â€‹â€‹â€‹ConsiderationCash paid at closing â€‹$ 14,301Advanced Energy common stockâ€‹â€‹ 4,463Settlement of payablesâ€‹â€‹ (654)Indemnity holdback payable on the one-year anniversaryâ€‹â€‹ 1,500Total fair value of purchase considerationâ€‹$ 19,610 Schedule of fair value of assets acquired and liabilities assumed â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Fair ValueCashâ€‹$ 539Current assets and liabilities, netâ€‹â€‹ 457Property and equipmentâ€‹â€‹ 42Deferred tax liabilityâ€‹â€‹ (2,229)Intangible assets â€‹â€‹ 4,200Goodwill (not deductible for tax purposes)â€‹â€‹ 16,601Total fair value of net assets acquiredâ€‹$ 19,610 X - ReferencesNo definition available. + Details Name: us-gaap_BusinessCombinationsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of contingent payment arrangements including the terms that will result in payment and the accounting treatment that will be followed if such contingencies occur, including the potential impact on earnings per share if contingencies are to be settled in common stock of the entity. The description also may include the period over which amounts are expected to be paid, and changes in the amount since the previous reporting period. This also includes contingent options and commitments. + ReferencesNo definition available. + Details Name: us-gaap_ScheduleOfBusinessAcquisitionsByAcquisitionContingentConsiderationTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the amounts recognized as of the acquisition date for each major class of assets acquired and liabilities assumed. May include but not limited to the following: (a) acquired receivables; (b) contingencies recognized at the acquisition date; and (c) the fair value of noncontrolling interests in the acquiree. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 805 -SubTopic 20 -Name Accounting Standards Codification -Paragraph 1 -Section 50 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-1 + Details Name: us-gaap_ScheduleOfRecognizedIdentifiedAssetsAcquiredAndLiabilitiesAssumedTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 42 R30.htm IDEA: XBRL DOCUMENT v3.24.3 REVENUE (Tables) 9 Months Ended Sep. 30, 2024 REVENUE Â Schedule of disaggregation of revenue Revenue by Marketâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024â€‹2023Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â Semiconductor Equipmentâ€‹$ 197,497â€‹$ 185,033â€‹$ 565,721â€‹$ 552,419â€‹Industrial and Medicalâ€‹Â 76,837â€‹Â 115,226â€‹Â 239,359â€‹Â 365,849â€‹Data Center Computingâ€‹â€‹ 80,653â€‹â€‹ 68,286â€‹â€‹ 195,519â€‹â€‹ 187,021â€‹Telecom and Networkingâ€‹â€‹ 19,230â€‹â€‹ 41,446â€‹â€‹ 66,040â€‹â€‹ 145,250â€‹Totalâ€‹$ 374,217â€‹$ 409,991â€‹$ 1,066,639â€‹$ 1,250,539â€‹Revenue by Regionâ€‹Three Months Ended SeptemberÂ 30,Â â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹Â Â Â Â 2024â€‹Â Â Â Â 2023â€‹Â Â Â Â 2024Â Â Â Â Â Â Â Â 2023â€‹Â Â Â Â North Americaâ€‹$ 175,691Â Â Â Â 47.0%Â Â Â Â $ 184,783Â Â Â Â 45.1%Â Â Â Â $ 482,564Â Â Â Â 45.2%Â Â Â Â $ 537,241Â Â Â Â 42.9%â€‹Asiaâ€‹â€‹ 163,212â€‹ 43.6â€‹â€‹â€‹ 178,190â€‹ 43.5â€‹â€‹â€‹ 467,110â€‹ 43.8â€‹â€‹â€‹ 543,871â€‹ 43.5â€‹â€‹Europeâ€‹â€‹ 34,892â€‹ 9.3â€‹â€‹â€‹ 46,088â€‹ 11.2â€‹â€‹â€‹ 115,258â€‹ 10.8â€‹â€‹â€‹ 164,867â€‹ 13.2â€‹â€‹Otherâ€‹Â 422â€‹ 0.1â€‹â€‹â€‹ 930â€‹ 0.2â€‹â€‹â€‹ 1,707â€‹ 0.2â€‹â€‹â€‹ 4,560â€‹ 0.4â€‹â€‹Totalâ€‹$ 374,217â€‹ 100.0%â€‹$ 409,991â€‹ 100.0%â€‹$ 1,066,639â€‹ 100.0%â€‹$ 1,250,539â€‹ 100.0%â€‹Revenue by Significant Countriesâ€‹Three Months Ended SeptemberÂ 30,Â â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹â€‹â€‹Â Â Â Â 2024â€‹Â Â Â Â 2023â€‹Â Â Â Â 2024Â Â Â Â Â Â Â Â 2023â€‹Â Â Â Â United Statesâ€‹$ 134,614Â Â Â Â 35.9%Â Â Â Â $ 156,710Â Â Â Â 38.2%Â Â Â Â $ 371,925Â Â Â Â 34.9%Â Â Â Â $ 457,325Â Â Â Â 36.6%â€‹Mexicoâ€‹â€‹ 40,953â€‹ 10.9â€‹â€‹â€‹ 27,464â€‹ 6.7â€‹â€‹â€‹ 109,768â€‹ 10.3â€‹â€‹â€‹ 77,953â€‹ 6.2â€‹â€‹Taiwanâ€‹â€‹ 40,990â€‹ 11.0â€‹â€‹â€‹ 33,136â€‹ 8.1â€‹â€‹â€‹ 119,571â€‹ 11.2â€‹â€‹â€‹ 98,842â€‹ 7.9â€‹â€‹Chinaâ€‹â€‹ 28,725â€‹ 7.7â€‹â€‹â€‹ 41,391â€‹ 10.1â€‹â€‹â€‹ 70,298â€‹ 6.6â€‹â€‹â€‹ 132,039â€‹ 10.6â€‹â€‹All othersâ€‹â€‹ 128,935â€‹ 34.5â€‹â€‹â€‹ 151,290â€‹ 36.9â€‹â€‹â€‹ 395,077â€‹ 37.0â€‹â€‹â€‹ 484,380â€‹ 38.7â€‹â€‹Totalâ€‹$ 374,217â€‹ 100.0%â€‹$ 409,991â€‹ 100.0%â€‹$ 1,066,639â€‹ 100.0%â€‹$ 1,250,539â€‹ 100.0%â€‹Revenue by Categoryâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Â Â Â Â 2024â€‹2023Â Â Â Â 2024Â Â Â Â 2023Productâ€‹$ 332,647â€‹$ 369,129â€‹$ 944,279â€‹$ 1,118,284Services and otherâ€‹â€‹ 41,570Â â€‹ 40,862â€‹â€‹ 122,360Â â€‹ 132,255Totalâ€‹$ 374,217Â $ 409,991â€‹$ 1,066,639Â $ 1,250,539 X - DefinitionTabular disclosure of disaggregation of revenue into categories depicting how nature, amount, timing, and uncertainty of revenue and cash flows are affected by economic factor. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5 + Details Name: us-gaap_DisaggregationOfRevenueTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_RevenueFromContractWithCustomerAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 43 R31.htm IDEA: XBRL DOCUMENT v3.24.3 INCOME TAX (Tables) 9 Months Ended Sep. 30, 2024 INCOME TAX Â Schedule of tax provision (benefit) and the effective tax rate for income (loss) from continuing operations â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023â€‹Income (loss) from continuing operations, before income taxâ€‹$ (14,547)â€‹$ 34,525â€‹$ 11,796â€‹$ 106,263â€‹Income tax provision (benefit)â€‹$ (400)â€‹$ 874â€‹$ 4,552â€‹$ 13,405â€‹Effective tax rateâ€‹â€‹ (2.7)%â€‹ 2.5%â€‹ 38.6%â€‹ 12.6% X - ReferencesNo definition available. + Details Name: us-gaap_IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the components of income tax expense attributable to continuing operations for each year presented including, but not limited to: current tax expense (benefit), deferred tax expense (benefit), investment tax credits, government grants, the benefits of operating loss carryforwards, tax expense that results from allocating certain tax benefits either directly to contributed capital or to reduce goodwill or other noncurrent intangible assets of an acquired entity, adjustments of a deferred tax liability or asset for enacted changes in tax laws or rates or a change in the tax status of the entity, and adjustments of the beginning-of-the-year balances of a valuation allowance because of a change in circumstances that causes a change in judgment about the realizability of the related deferred tax asset in future years. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-9 + Details Name: us-gaap_ScheduleOfComponentsOfIncomeTaxExpenseBenefitTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 44 R32.htm IDEA: XBRL DOCUMENT v3.24.3 STOCKHOLDERS' EQUITY AND EARNINGS PER SHARE (Tables) 9 Months Ended Sep. 30, 2024 STOCKHOLDERS' EQUITY AND EARNINGS PER SHARE Â Summary of the components of and changes in accumulated other comprehensive income (loss), net of income taxes â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Â Â Â Â â€‹Foreign Currency TranslationÂ Â Â Â â€‹Change in Fair Value of Cash Flow HedgesÂ Â Â Â â€‹Defined Employee Benefit PlanÂ Â Â Â â€‹TotalBalance at December 31, 2022â€‹$ (12,823)â€‹$ 11,848â€‹$ 17,295â€‹$ 16,320Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (196)â€‹â€‹ 595â€‹â€‹ â€”â€‹â€‹ 399Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹ (2,412)â€‹â€‹ â€”â€‹â€‹ (2,412)Balance at March 31, 2023â€‹â€‹ (13,019)â€‹â€‹ 10,031â€‹â€‹ 17,295â€‹â€‹ 14,307Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (1,533)â€‹â€‹ 2,555â€‹â€‹ â€”â€‹â€‹ 1,022Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹ (2,756)â€‹â€‹ (292)â€‹â€‹ (3,048)Balance at June 30, 2023â€‹â€‹ (14,552)â€‹â€‹ 9,830â€‹â€‹ 17,003â€‹â€‹ 12,281Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (5,069)â€‹â€‹ 1,036â€‹â€‹ â€”â€‹â€‹ (4,033)Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹ (2,858)â€‹â€‹ â€”â€‹â€‹ (2,858)Balance at September 30, 2023â€‹$ (19,621)â€‹$ 8,008â€‹$ 17,003â€‹$ 5,390â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Â Â Â Â â€‹Foreign Currency TranslationÂ Â Â Â â€‹Change in Fair Value of Cash Flow HedgesÂ Â Â Â â€‹Defined Employee Benefit PlanÂ Â Â Â â€‹TotalBalance at December 31, 2023â€‹$ (10,796)â€‹$ 5,474â€‹$ 11,436â€‹$ 6,114Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (6,589)â€‹â€‹ 1,405â€‹â€‹ â€”â€‹â€‹ (5,184)Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹ (2,785)â€‹â€‹ â€”â€‹â€‹ (2,785)Balance at March 31, 2024â€‹â€‹ (17,385)â€‹â€‹ 4,094â€‹â€‹ 11,436â€‹â€‹ (1,855)Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ (2,561)â€‹â€‹ 395â€‹â€‹ â€”â€‹â€‹ (2,166)Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ â€”â€‹â€‹ (2,751)â€‹â€‹ (51)â€‹â€‹ (2,802)Balance at June 30, 2024â€‹â€‹ (19,946)â€‹â€‹ 1,738â€‹â€‹ 11,385â€‹â€‹ (6,823)Other comprehensive income (loss) prior to reclassificationsâ€‹â€‹ 10,816â€‹â€‹ 444â€‹â€‹ (2,228)â€‹â€‹ 9,032Amounts reclassified from accumulated other comprehensive income (loss)â€‹â€‹ 1,585â€‹â€‹ (2,182)â€‹â€‹ 477â€‹â€‹ (120)Balance at September 30, 2024â€‹$ (7,545)â€‹$ â€”â€‹$ 9,634â€‹$ 2,089â€‹ Schedule of amounts reclassified from accumulated other comprehensive income (loss) to the specific caption within the Consolidated Statements of Operations â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â Â Â Â Â Nine Months Ended SeptemberÂ 30,Â Â Â Â Â To Caption on Consolidatedâ€‹Â Â Â 2024â€‹2023â€‹Â Â Â Â 2024Â Â Â Â â€‹2023â€‹Statements of OperationsForeign currency translationâ€‹$ 1,585â€‹$ â€”â€‹$ 1,585â€‹$ â€”â€‹Other income (expense), netCash flow hedgesâ€‹â€‹ (2,182)â€‹â€‹ (2,858)â€‹â€‹ (7,718)â€‹â€‹ (8,026)â€‹Interest expenseDefined employee benefit planâ€‹â€‹ 477â€‹â€‹ â€”â€‹â€‹ 426â€‹â€‹ (292)â€‹Other income (expense), netTotal reclassificationsâ€‹$ (120)â€‹$ (2,858)â€‹$ (5,707)â€‹$ (8,318)â€‹â€‹ Summary of earnings per share â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Income (loss) from continuing operationsâ€‹$ (14,147)â€‹$ 33,651â€‹$ 7,244â€‹$ 92,858â€‹Basic weighted-average common shares outstandingâ€‹Â 37,532â€‹Â 37,575â€‹Â 37,455â€‹Â 37,541Dilutive effect of stock awardsâ€‹Â â€”â€‹Â 279â€‹Â 330â€‹Â 301Diluted weighted-average common shares outstandingâ€‹Â 37,532â€‹Â 37,854â€‹Â 37,785â€‹Â 37,842â€‹EPS from continuing operationsâ€‹Â Â Â â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â Basic EPSâ€‹$ (0.38)â€‹$ 0.90â€‹$ 0.19â€‹$ 2.47Diluted EPSâ€‹$ (0.38)â€‹$ 0.89â€‹$ 0.19â€‹$ 2.45â€‹Anti-dilutive shares not included aboveâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Stock awardsâ€‹â€‹ 371â€‹â€‹ 27â€‹â€‹ 4â€‹â€‹ 84Warrantsâ€‹â€‹ 3,076â€‹â€‹ 3,180â€‹â€‹ 3,212â€‹â€‹ 3,180Total anti-dilutive sharesâ€‹â€‹ 3,447â€‹â€‹ 3,207â€‹â€‹ 3,216â€‹â€‹ 3,264 Schedule of shares repurchases â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹(in thousands, except per share amounts)Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â Amount paid or accrued to repurchase sharesâ€‹$ 1,770â€‹$ 40,000â€‹$ 1,770â€‹$ 40,000â€‹Number of shares repurchasedâ€‹Â 19â€‹Â 378â€‹Â 19â€‹Â 378â€‹Average repurchase price per shareâ€‹$ 93.58â€‹$ 105.74â€‹$ 93.58â€‹$ 105.74â€‹ X - ReferencesNo definition available. + Details Name: aeis_EquityAndEarningPerShareAbstract Namespace Prefix: aeis_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of information about items reclassified out of accumulated other comprehensive income (loss). + ReferencesNo definition available. + Details Name: us-gaap_ReclassificationOutOfAccumulatedOtherComprehensiveIncomeTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the components of accumulated other comprehensive income (loss). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481674/830-30-50-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20 + Details Name: us-gaap_ScheduleOfAccumulatedOtherComprehensiveIncomeLossTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of treasury stock, including, but not limited to, average cost per share, description of share repurchase program, shares repurchased, shares held for each class of treasury stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481520/505-30-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481520/505-30-50-3Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481520/505-30-50-4Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name

Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481549/505-30-45-1 + Details Name: us-gaap_ScheduleOfTreasuryStockByClassTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the weighted average number of shares used in calculating basic net earnings per share (or unit) and diluted earnings per share (or unit). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 260 -SubTopic 10 -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1 + Details Name: us-gaap_ScheduleOfWeightedAverageNumberOfSharesTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 45 R33.htm IDEA: XBRL DOCUMENT v3.24.3 FAIR VALUE MEASUREMENTS (Tables) 9 Months Ended Sep. 30, 2024 FAIR VALUE MEASUREMENTS Â Schedule of assets and liabilities measured at fair value on a recurring basis â€‹September 30,Â 2024Descriptionâ€‹Balance Sheet Classificationâ€‹LevelÂ 1â€‹LevelÂ 2â€‹LevelÂ 3â€‹TotalFairÂ ValueCertificates of depositâ€‹Other current assetsâ€‹$ â€”â€‹â€‹ 157â€‹â€‹ â€”â€‹$ 157Foreign currency forward contractsâ€‹Other accrued expensesâ€‹$ â€”â€‹â€‹ 168â€‹â€‹ â€”â€‹$ 168Investmentsâ€‹Other assetsâ€‹$ â€”â€‹â€‹ 9,668â€‹â€‹ â€”â€‹$ 9,668â€‹DecemberÂ 31,Â 2023Descriptionâ€‹Balance Sheet Classificationâ€‹LevelÂ 1Â Â LevelÂ 2Â Â LevelÂ 3Â Â TotalFairÂ ValueCertificates of depositâ€‹Other current assetsâ€‹$ â€”â€‹â€‹ 163â€‹â€‹ â€”â€‹$ 163Interest rate swapsâ€‹Other assetsâ€‹$ â€”â€‹â€‹ 6,995â€‹â€‹ â€”â€‹$ 6,995Investmentsâ€‹Other assetsâ€‹$ â€”â€‹â€‹ 5,952â€‹â€‹ â€”â€‹$ 5,952â€‹ X - ReferencesNo definition available. + Details Name: us-gaap_FairValueDisclosuresAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of assets and liabilities, including [financial] instruments measured at fair value that are classified in stockholders' equity, if any, that are measured at fair value on a recurring basis. The disclosures contemplated herein include the fair value measurements at the reporting date by the level within the fair value hierarchy in which the fair value measurements in their entirety fall, segregating fair value measurements using quoted prices in active markets for identical assets (Level 1), significant other observable inputs (Level 2), and significant unobservable inputs (Level 3). + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_ScheduleOfFairValueAssetsAndLiabilitiesMeasuredOnRecurringBasisTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 46 R34.htm IDEA: XBRL DOCUMENT v3.24.3 ACCOUNTS RECEIVABLE, NET (Tables) 9 Months Ended Sep. 30, 2024 ACCOUNTS RECEIVABLE, NET Â Schedule of accounts and other receivable â€‹â€‹â€‹â€‹â€‹December 31, 2023Â Â Â $ 1,762Additionsâ€‹Â 94Deductions - write-offs, net of recoveriesâ€‹â€‹ (399)September 30, 2024â€‹$ 1,457â€‹ X - DefinitionTabular disclosure of allowance for credit loss on accounts and other receivables. + ReferencesNo definition available. + Details Name: aeis_AccountsAndOtherReceivablesNetAllowanceForCreditLossTableTextBlock Namespace Prefix: aeis_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_ReceivablesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 47 R35.htm IDEA: XBRL DOCUMENT v3.24.3 INVENTORIES (Tables) 9 Months Ended Sep. 30, 2024 INVENTORIES Â Schedule of components of inventories â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Parts and raw materialsâ€‹$ 273,793â€‹$ 249,698Work in processâ€‹Â 19,502â€‹Â 14,595Finished goodsâ€‹Â 84,445â€‹Â 71,844Totalâ€‹$ 377,740â€‹$ 336,137â€‹ X - ReferencesNo definition available. + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the carrying amount as of the balance sheet date of merchandise, goods, commodities, or supplies held for future sale or to be used in manufacturing, servicing or production process. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(c)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483489/210-10-50-1 + Details Name: us-gaap_ScheduleOfInventoryCurrentTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 48 R36.htm IDEA: XBRL DOCUMENT v3.24.3 INTANGIBLE ASSETS AND GOODWILL (Tables) 9 Months Ended Sep. 30, 2024 INTANGIBLE ASSETS AND GOODWILL Â Schedule of intangible assets â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â 2024â€‹Â Â Â Â GrossÂ CarryingÂ Â Â Â AccumulatedÂ Â Â Â NetÂ CarryingÂ Â Â Â Weighted Average Remainingâ€‹â€‹Amountâ€‹Amortizationâ€‹AmountÂ Useful Life (in years)Technologyâ€‹$ 100,988â€‹$ (69,407)â€‹$ 31,581â€‹7.1Customer relationshipsâ€‹Â 170,486â€‹â€‹ (68,944)â€‹Â 101,542â€‹8.8Trademarks and otherâ€‹Â 27,219â€‹â€‹ (15,052)â€‹Â 12,167â€‹4.9Totalâ€‹$ 298,693â€‹$ (153,403)â€‹$ 145,290â€‹8.1â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹DecemberÂ 31,Â 2023â€‹Â Â Â Â GrossÂ CarryingÂ Â Â Â AccumulatedÂ Â Â Â NetÂ Carryingâ€‹Weighted Average Remainingâ€‹Amountâ€‹Amortizationâ€‹Â Amountâ€‹Useful Life (in years)Technologyâ€‹$ 97,961â€‹$ (60,412)â€‹$ 37,549â€‹6.8Customer relationshipsâ€‹Â 168,685â€‹â€‹ (58,835)â€‹Â 109,850â€‹9.5Trademarks and otherâ€‹Â 27,141â€‹â€‹ (13,062)â€‹Â 14,079â€‹5.6Totalâ€‹$ 293,787â€‹$ (132,309)â€‹$ 161,478â€‹8.5 Schedule of amortization expense related to intangible assets â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023â€‹Amortization expenseâ€‹$ 6,772â€‹$ 7,049â€‹$ 20,519â€‹$ 21,186â€‹ Schedule of estimated future amortization expense related to intangible assets â€‹â€‹â€‹â€‹â€‹Year Ending DecemberÂ 31,Â Â Â Â Â â€‹â€‹2024 (remaining)â€‹$ 5,5732025â€‹Â 22,1482026â€‹Â 20,0632027â€‹Â 17,8152028â€‹â€‹ 16,569Thereafterâ€‹Â 63,122Totalâ€‹$ 145,290 Schedule of changes in goodwill â€‹â€‹â€‹â€‹â€‹December 31, 2023â€‹$ 283,840Additions from acquisitionâ€‹â€‹ 16,601Foreign currency translation and otherâ€‹â€‹ (1,405)September 30, 2024Â Â Â Â $ 299,036â€‹ X - DefinitionTabular disclosure of amortization expense of assets, excluding financial assets, that lack physical substance, having a limited useful life. + ReferencesNo definition available. + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of assets, excluding financial assets and goodwill, lacking physical substance with a finite life, by either major class or business segment. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2 + Details Name: us-gaap_ScheduleOfFiniteLivedIntangibleAssetsTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of goodwill by reportable segment and in total which includes a rollforward schedule. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 9: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 10: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1AReference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-2 + Details Name: us-gaap_ScheduleOfGoodwillTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the amount of amortization expense expected to be recorded in succeeding fiscal years for finite-lived intangible assets. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2 + Details Name: us-gaap_ScheduleofFiniteLivedIntangibleAssetsFutureAmortizationExpenseTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 49 R37.htm IDEA: XBRL DOCUMENT v3.24.3 RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGES (Tables) 9 Months Ended Sep. 30, 2024 RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGES Â Schedule of restructuring, asset impairments, and other charges â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹2024â€‹2023Â Â Â Â 2024â€‹2023â€‹RestructuringÂ Â Â Â $ 27,790â€‹$ 4,709â€‹$ 27,844â€‹$ 8,906â€‹Other chargesâ€‹â€‹ 756â€‹â€‹ â€”â€‹â€‹ 1,572â€‹â€‹ â€”â€‹Total restructuring, asset impairments, and other chargesâ€‹$ 28,546Â $ 4,709Â $ 29,416Â $ 8,906â€‹ Schedule of changes in restructuring liabilities â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Â Â Â Â 2024 PlanÂ Â Â Â 2023 PlanÂ Â Â Â 2022 PlanÂ Â Â Â OtherÂ Â Â Â TotalDecember 31, 2023â€‹$ â€”â€‹$ 14,224â€‹$ 2,930â€‹$ 188â€‹$ 17,342Costs incurred and charged to expenseâ€‹â€‹ 28,454â€‹â€‹ (698)â€‹â€‹ 88â€‹â€‹ â€”â€‹â€‹ 27,844Costs paidâ€‹â€‹ (855)â€‹â€‹ (7,653)â€‹â€‹ (3,018)â€‹â€‹ (188)â€‹â€‹ (11,714)Foreign currency translationâ€‹â€‹ 457â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 457September 30, 2024â€‹$ 28,056â€‹$ 5,873â€‹$ â€”â€‹$ â€”â€‹$ 33,929 Schedule of charges related to restructuring plans â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹2024â€‹2023â€‹2024â€‹2023â€‹Severance and related chargesÂ Â Â Â $ 27,356Â Â Â Â $ 4,709Â Â Â Â $ 27,410Â Â Â Â $ 8,906â€‹Facility relocation and closure chargesâ€‹â€‹ 434Â â€‹ â€”Â â€‹ 434Â â€‹ â€”â€‹Total restructuring chargesâ€‹$ 27,790Â $ 4,709Â $ 27,844Â $ 8,906â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Cumulative Cost Throughâ€‹â€‹SeptemberÂ 30,Â 2024â€‹Â Â Â Â 2024 PlanÂ Â Â Â 2023 PlanÂ Â Â Â 2022 PlanÂ Â Â Â TotalSeverance and related chargesÂ Â Â Â $ 28,020â€‹$ 16,405â€‹$ 14,075â€‹$ 58,500Facility relocation and closure chargesâ€‹â€‹ 434â€‹â€‹ â€”â€‹â€‹ â€”â€‹â€‹ 434Total restructuring chargesâ€‹$ 28,454â€‹$ 16,405â€‹$ 14,075â€‹$ 58,934 X - DefinitionTabular disclosure of information pertaining to changes related to restructuring plans. + ReferencesNo definition available. + Details Name: aeis_ScheduleOfChargesRelatedToRestructuringPlansTableTextBlock Namespace Prefix: aeis_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_RestructuringCostsAndAssetImpairmentChargesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of costs incurred for restructuring including, but not limited to, exit and disposal activities, remediation, implementation, integration, asset impairment, and charges against earnings from the write-down of assets. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 5.P.3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 420 -SubTopic 10 -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1 + Details Name: us-gaap_ScheduleOfRestructuringAndRelatedCostsTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of an entity's restructuring reserve that occurred during the period associated with the exit from or disposal of business activities or restructurings for each major type of cost. This element may also include a description of any reversal and other adjustment made during the period to the amount of an accrued liability for restructuring activities. This element may be used to encapsulate the roll forward presentations of an entity's restructuring reserve by type of cost and in total, and explanation of changes that occurred in the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 420 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1 + Details Name: us-gaap_ScheduleOfRestructuringReserveByTypeOfCostTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 50 R38.htm IDEA: XBRL DOCUMENT v3.24.3 WARRANTIES (Tables) 9 Months Ended Sep. 30, 2024 WARRANTIES Â Schedule of changes in product warranty obligation â€‹â€‹â€‹â€‹â€‹December 31, 2023â€‹$ 4,007Net increases to accrualsâ€‹Â 2,088Warranty expendituresâ€‹Â (1,640)Effect of changes in exchange ratesâ€‹Â 155September 30, 2024â€‹$ 4,610â€‹ X - ReferencesNo definition available. + Details Name: us-gaap_ProductWarrantiesDisclosuresAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the changes in the guarantor's aggregate product warranty liability, including the beginning balance of the aggregate product warranty liability, the aggregate reductions in that liability for payments made (in cash or in kind) under the warranty, the aggregate changes in the liability for accruals related to product warranties issued during the reporting period, the aggregate changes in the liability for accruals related to preexisting warranties (including adjustments related to changes in estimates), and the ending balance of the aggregate product warranty liability. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8 + Details Name: us-gaap_ScheduleOfProductWarrantyLiabilityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 51 R39.htm IDEA: XBRL DOCUMENT v3.24.3 LEASES (Tables) 9 Months Ended Sep. 30, 2024 LEASES Â Components of operating lease cost â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Operating lease costâ€‹$ 5,859â€‹$ 5,629â€‹$ 17,575â€‹$ 16,965Short-term and variable lease costâ€‹â€‹ 897â€‹â€‹ 1,100â€‹â€‹ 2,474â€‹â€‹ 3,170Total operating lease costâ€‹$ 6,756â€‹$ 6,729â€‹$ 20,049â€‹$ 20,135 Schedule of estimated future payments on operating lease liabilities â€‹â€‹â€‹â€‹â€‹Year

Ending December 31,Â Â Â Â â€‹â€‹2024 (remaining)â€‹$ 6,1272025â€‹Â 22,5572026â€‹Â 17,0772027â€‹â€‹ 13,6162028â€‹â€‹ 13,171Thereafterâ€‹â€‹ 50,930Total lease paymentsâ€‹â€‹ 123,478Less: Interestâ€‹â€‹ (24,854)Present value of lease liabilitiesâ€‹$ 98,624 Schedule of additional information about lease agreements â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â â€‹â€‹DecemberÂ 31,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â Â Â Â Â 2023â€‹Weighted average remaining lease term (in years)â€‹â€‹ 7.8â€‹â€‹â€‹ 8.3â€‹Weighted average discount rateâ€‹Â 5.5%â€‹â€‹ 5.0%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â Cash paid for operating leases$ 5,823â€‹$ 5,683â€‹$ 17,476â€‹$ 17,290â€‹Right-of-use assets obtained in exchange for operating lease liabilities$ 7,367â€‹$ 9,271â€‹$ 25,784â€‹$ 11,900â€‹â€‹ X - DefinitionTabular disclosure of other information relating to operating leases. + ReferencesNo definition available. + Details Name: aeis_ScheduleOfOtherInformationRelatingToOperatingLeasesTableTextBlock Namespace Prefix: aeis_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of lessee's lease cost. Includes, but is not limited to, interest expense for finance lease, amortization of right-of-use asset for finance lease, operating lease cost, short-term lease cost, variable lease cost and sublease income. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_LeaseCostTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_LeasesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of undiscounted cash flows of lessee's operating lease liability. Includes, but is not limited to, reconciliation of undiscounted cash flows to operating lease liability recognized in statement of financial position. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityMaturityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 52 R40.htm IDEA: XBRL DOCUMENT v3.24.3 STOCK-BASED COMPENSATION (Tables) 9 Months Ended Sep. 30, 2024 STOCK-BASED COMPENSATION Â Summary of information related to stock-based incentive compensation plans â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â 2024Shares available for future issuance under the 2023 Incentive Planâ€‹ 1,809Shares available for future issuance under the ESPPâ€‹ 556 Schedule of stock-based compensation â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â Stock-based compensation expenseâ€‹$ 11,914â€‹$ 8,075â€‹$ 34,303â€‹$ 22,813â€‹ Summary of changes in RSUs â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â 2024â€‹Â Â Â Â â€‹Â Â Â Â Weighted-â€‹â€‹â€‹â€‹Averageâ€‹â€‹Number ofâ€‹Grant Dateâ€‹â€‹RSUsâ€‹Fair ValueRSUs outstanding at beginning of periodÂ 917â€‹$ 85.96RSUs grantedÂ 546â€‹$ 104.79RSUs vestedÂ (286)â€‹$ 90.22RSUs forfeitedÂ (87)â€‹$ 77.73RSUs outstanding at end of periodÂ 1,090â€‹$ 94.92 Summary of changes in stock options â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â 2024â€‹Â Â Â Â â€‹Â Â Â Â Weighted-â€‹â€‹â€‹â€‹Averageâ€‹â€‹Number ofâ€‹ExerciseÂ Priceâ€‹â€‹Optionsâ€‹per ShareOptions outstanding at beginning of periodÂ 89â€‹$ 76.69Options exercisedÂ (10)â€‹$ 26.32Options outstanding at end of periodÂ 79â€‹$ 83.05â€‹ X - ReferencesNo definition available. + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 718 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_DisclosureOfShareBasedCompensationArrangementsByShareBasedPaymentAwardTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of activity for award under share-based payment arrangement. Includes, but is not limited to, outstanding award at beginning and end of year, granted, exercised, forfeited, and weighted-average grant date fair value. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d) -SubTopic 10 -Topic 718 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e) -SubTopic 10 -Topic 718 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ScheduleOfShareBasedCompensationActivityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of number, weighted-average exercise price or conversion ratio, aggregate intrinsic value, and weighted-average remaining contractual term for outstanding restricted stock units that are fully vested and expected to vest. Includes, but is not limited to, unvested restricted stock units for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 718 -SubTopic 10 -Subparagraph (e)(1) -Name Accounting Standards Codification -Paragraph 2 -Section 50 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ScheduleOfShareBasedCompensationArrangementByShareBasedPaymentAwardRestrictedStockUnitsVestedAndExpectedToVestTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure for stock option plans. Includes, but is not limited to, outstanding awards at beginning and end of year, grants, exercises, forfeitures, and weighted-average grant date fair value. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d) -SubTopic 10 -Topic 718 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e) -SubTopic 10 -Topic 718 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 53 R41.htm IDEA: XBRL DOCUMENT v3.24.3 LONG-TERM DEBT (Tables) 9 Months Ended Sep. 30, 2024 LONG-TERM DEBT Â Schedule of long-term debt â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Convertible Notes due 2028â€‹$ 575,000â€‹$ 575,000Term Loan Facilityâ€‹â€‹ â€”â€‹â€‹ 355,000Gross long-term debt, including current maturitiesâ€‹â€‹ 575,000â€‹â€‹ 930,000Less: debt discountâ€‹â€‹ (11,000)â€‹â€‹ (14,321)Net long-term debt, including current maturitiesâ€‹â€‹ 564,000â€‹â€‹ 915,679Less: current maturitiesâ€‹â€‹ â€”â€‹â€‹ (20,000)Net long-term debtâ€‹$ 564,000â€‹$ 895,679 Schedule of interest expense and unused line of credit fees â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended SeptemberÂ 30,Â â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023â€‹Interest expenseâ€‹$ 5,736â€‹$ 3,528â€‹$ 18,403â€‹$ 8,818â€‹Amortization of debt issuance costsâ€‹â€‹ 794â€‹â€‹ 245â€‹â€‹ 2,469â€‹â€‹ 509â€‹Capitalized interestâ€‹â€‹ (157)â€‹â€‹ â€”â€‹â€‹ (428)â€‹â€‹ â€”â€‹Total interest expense related to debtâ€‹$ 6,373â€‹$ 3,773â€‹$ 20,444â€‹$ 9,327â€‹ Schedule of availability to withdraw on Revolving Facility â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹SeptemberÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Available capacity on Revolving Facilityâ€‹$ 600,000â€‹$ 200,000 X - DefinitionTabular disclosure of borrowing capacity under a line of credit that is available as of the balance sheet date. + ReferencesNo definition available. + Details Name: aeis_ScheduleOfLineOfCreditFacilityAvailableCapacityTableTextBlock Namespace Prefix: aeis_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of information pertaining to short-term and long-debt instruments or arrangements, including but not limited to identification of terms, features, collateral requirements and other information necessary to a fair presentation. + ReferencesNo definition available. + Details Name: us-gaap_ScheduleOfDebtTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of short-term or long-term contractual arrangements with lenders, including letters of credit, standby letters of credit, and revolving credit arrangements, under which borrowings can be made up to maximum amount as of any point in time conditional on satisfaction of specified terms before, as of and after the date of drawdowns on the line. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_ScheduleOfLineOfCreditFacilitiesTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 54 R42.htm IDEA: XBRL DOCUMENT v3.24.3 SUPPLEMENTAL CASH FLOW INFORMATION AND OTHER DISCLOSURES (Tables) 9 Months Ended Sep. 30, 2024 SUPPLEMENTAL CASH FLOW INFORMATION AND OTHER DISCLOSURES Â Schedule of supplemental cash flow information â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Nine Months Ended SeptemberÂ 30,Â â€‹â€‹â€‹2024Â Â Â Â 2023â€‹Non-cash investing activities:â€‹â€‹â€‹â€‹â€‹â€‹â€‹Capital expenditures in accounts payable and other accrued expensesâ€‹$ 7,200â€‹$ 7,699â€‹Cash paid for:â€‹â€‹â€‹â€‹â€‹â€‹â€‹Interest expenseâ€‹$ 17,975â€‹$ 8,060â€‹Income taxesâ€‹$ 29,041â€‹$ 45,040â€‹Cash received from income taxesâ€‹$ 1,627â€‹$ 828â€‹Depreciation expenseâ€‹$ 31,305â€‹$ 28,578â€‹â€‹ X - DefinitionTabular disclosure of supplemental cash flow information for the periods presented. + ReferencesNo definition available. + Details Name: us-gaap_ScheduleOfCashFlowSupplementalDisclosuresTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_SupplementalCashFlowInformationAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 55 R43.htm IDEA: XBRL DOCUMENT v3.24.3 ACQUISITIONS - Narrative (Details) - USD ($) $ in Thousands, shares in Millions 3 Months Ended Jun. 20, 2024 Sep. 30, 2024 Jun. 30, 2024 Mar. 31, 2024 Sep. 30, 2023 Jun. 30, 2023 Mar. 31, 2023 Business Acquisition [Line Items] Â Â Â Â Â Â Â Value of shares issued Â $ (529) $ (173) $ (5,327) $ 130 $ 607 $ (1,991) Airity Technologies Â Â Â Â Â Â Â Business Acquisition [Line Items] Â Â Â Â Â Â Â Acquired percentage 100.00% Â Â Â Â Â Â Shares issued 0.1 Â Â Â Â Â Â Share-Based Payment Arrangement, Grantee Status [Extensible Enumeration] us-gaap:ShareBasedPaymentArrangementEmployeeMember Â Â Â Â Â Â Value of shares issued $ 15,600 Â Â Â Â Â Â Vesting period 3 years Â Â Â Â Â Â Airity Technologies | Shares allocated to consideration paid at closing Â Â Â Â Â Â Â Business Acquisition [Line Items] Â Â Â Â Â Â Â Value of shares issued $ 4,500 Â Â Â Â Â Â Airity Technologies | Shares considered future compensation Â Â Â Â Â Â Â Business Acquisition [Line Items] Â Â Â Â Â Â Â Value of shares issued $ 11,100 Â Â Â Â Â Â X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-5 + Details Name: us-gaap_BusinessAcquisitionLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPercentage of voting equity interests acquired at the acquisition date in the business combination. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479328/805-10-50-2 + Details Name: us-gaap_BusinessAcquisitionPercentageOfVotingInterestsAcquired Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionPeriod over which grantee's right to exercise award under share-based payment arrangement is no longer contingent on satisfaction of service or performance condition, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. Includes, but is not limited to, combination of market, performance or service condition. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardAwardVestingPeriod1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionIndicates status of recipient to whom award under share-based payment arrangement is granted. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 1D -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-1DReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher

FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(v) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedPaymentArrangementGranteeStatusExtensibleList Namespace Prefix: us-gaap_ Data Type: enum2:enumerationSetItemType Balance Type: na Period Type: duration X - DefinitionNumber, after forfeiture, of shares or units issued under share-based payment arrangement. Excludes shares or units issued under employee stock ownership plan (ESOP). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionValue, after forfeiture, of shares issued under share-based payment arrangement. Excludes employee stock ownership plan (ESOP). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_StockIssuedDuringPeriodValueShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: us-gaap_BusinessAcquisitionAxis=aeis_AirityTechnologiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementScenarioAxis=aeis_SharesAllocatedToConsiderationPaidAtClosingMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementScenarioAxis=aeis_SharesConsideredFutureCompensationMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 56 R44.htm IDEA: XBRL DOCUMENT v3.24.3 ACQUISITIONS - Consideration Paid (Details) - Airity Technologies $ in Thousands Jun. 20, 2024 USD ($) Business Acquisition [Line Items] Â Cash paid at closing $ 14,301 Advanced Energy common stock 4,463 Settlement of payables (654) Indemnity holdback payable on the one-year anniversary 1,500 Total fair value of consideration transferred $ 19,610 X - DefinitionAmount of settlement of payables of the acquirer in consideration for the business combination. + ReferencesNo definition available. + Details Name: aeis_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedCurrentLiabilitiesSettlementPayable Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of assets acquired on indemnity holdback payable. + ReferencesNo definition available. + Details Name: aeis_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedIndemnityHoldbackPayable Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-5 + Details Name: us-gaap_BusinessAcquisitionLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of consideration transferred, consisting of acquisition-date fair value of assets transferred by the acquirer, liabilities incurred by the acquirer, and equity interest issued by the acquirer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 30 -Paragraph 8 -SubTopic 30 -Topic 805 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479637/805-30-30-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -SubTopic 30 -Topic 805 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479581/805-30-50-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 30 -Paragraph 7 -SubTopic 30 -Topic 805 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479637/805-30-30-7 + Details Name: us-gaap_BusinessCombinationConsiderationTransferred1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of equity interests of the acquirer, including instruments or interests issued or issuable in consideration for the business combination. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 30 -Paragraph 8 -SubTopic 30 -Topic 805 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479637/805-30-30-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 30 -Paragraph 7 -SubTopic 30 -Topic 805 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479637/805-30-30-7 + Details Name: us-gaap_BusinessCombinationConsiderationTransferredEquityInterestsIssuedAndIssuable Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow associated with the acquisition of business during the period. The cash portion only of the acquisition price. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479581/805-30-50-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquireBusinessesGross Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: us-gaap_BusinessAcquisitionAxis=aeis_AirityTechnologiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 57 R45.htm IDEA: XBRL DOCUMENT v3.24.3 ACQUISITIONS - Assets Acquired and Liabilities Assumed (Details) - USD ($) $ in Thousands Sep. 30, 2024 Jun. 20, 2024 Dec. 31, 2023 Business Acquisition [Line Items] Â Â Â Goodwill (not deductible for tax purposes) $ 299,036 Â $ 283,840 Airity Technologies Â Â Â Business Acquisition [Line Items] Â Â Â Cash Â $ 539 Â Current assets and liabilities, net Â 457 Â Property and equipment Â 42 Â Deferred tax liability Â (2,229) Â Intangible assets Â 4,200 Â Goodwill (not deductible for tax purposes) Â 16,601 Â Total fair value of net assets acquired Â $ 19,610 Â X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-5 + Details Name: us-gaap_BusinessAcquisitionLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions, acquired at the acquisition date. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 20 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-1 + Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedCashAndEquivalents Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of assets that are expected to be realized or consumed within one year or the normal operating cycle, if longer, acquired at the acquisition date. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 20 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-1 + Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedCurrentAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of deferred tax liability attributable to taxable temporary differences assumed at the acquisition date. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 20 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-1 + Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedDeferredTaxLiabilities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe amount of identifiable intangible assets recognized as of the acquisition date. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 10 -Section 55 -Paragraph 37 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479303/805-10-55-37Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 20 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-1 + Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedIntangibles Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount recognized as of the acquisition date for the identifiable assets acquired in excess of (less than) the aggregate liabilities assumed. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 10 -Section 55 -Paragraph 37 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479303/805-10-55-37Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 20 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-1 + Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionThe amount of property, plant, and equipment recognized as of the acquisition date. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 10 -Section 55 -Paragraph 37 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479303/805-10-55-37Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 20 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-1 + Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedPropertyPlantAndEquipment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482598/350-20-45-1Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_Goodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: us-gaap_BusinessAcquisitionAxis=aeis_AirityTechnologiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 58 R46.htm IDEA: XBRL DOCUMENT v3.24.3 REVENUE (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Disaggregation of Revenue [Line Items] Â Â Â Â Revenue $ 374,217 $ 409,991 $ 1,066,639 $ 1,250,539 Revenue Benchmark | Geographic Concentration Risk Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue (as a percent) 100.00% 100.00% 100.00% 100.00% North America Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue $ 175,691 $ 184,783 $ 482,564 $ 537,241 North America | Revenue Benchmark | Geographic Concentration Risk Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue (as a percent) 47.00% 45.10% 45.20% 42.90% Asia Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue $ 163,212 $ 178,190 $ 467,110 $ 543,871 Asia | Revenue Benchmark | Geographic Concentration Risk Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue (as a percent) 43.60% 43.50% 43.80% 43.50% Europe Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue $ 34,892 $ 46,088 $ 115,258 $ 164,867 Europe | Revenue Benchmark | Geographic Concentration Risk Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue (as a percent) 9.30% 11.20% 10.80% 13.20% Other Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue $ 422 $ 930 $ 1,707 $ 4,560 Other | Revenue Benchmark | Geographic Concentration Risk Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue (as a percent) 0.10% 0.20% 0.20% 0.40% United States Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue $ 134,614 $ 156,710 $ 371,925 $ 457,325 United States | Revenue Benchmark | Geographic Concentration Risk Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue (as a percent) 35.90% 38.20% 34.90% 36.60% Mexico Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue $ 40,953 $ 27,464 $ 109,768 $ 77,953 Mexico | Revenue Benchmark | Geographic Concentration Risk Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue (as a percent) 10.90% 6.70% 10.30% 6.20% Taiwan Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue $ 40,990 $ 33,136 $ 119,571 $ 98,842 Taiwan | Revenue Benchmark | Geographic Concentration Risk Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue (as a percent) 11.00% 8.10% 11.20% 7.90% China Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue $ 28,725 $ 41,391 $ 70,298 $ 132,039 China | Revenue Benchmark | Geographic Concentration Risk Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue (as a percent) 7.70% 10.10% 6.60% 10.60% All others Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue $ 128,935 $ 151,290 $ 395,077 $ 484,380 All others | Revenue Benchmark | Geographic Concentration Risk Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue (as a percent) 34.50% 36.90% 37.00% 38.70% Semiconductor Equipment Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue $ 197,497 $ 185,033

$ 565,721 $ 552,419 Industrial and Medical Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue 76,837 115,226 239,359 365,849 Data Center Computing Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue 80,653 68,286 195,519 187,021 Telecom and Networking Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue 19,230 41,446 66,040 145,250 Product Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue 332,647 369,129 944,279 1,118,284 Services and other Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue $ 41,570 $ 40,862 $ 122,360 $ 132,255 X - DefinitionFor an entity that discloses a concentration risk in relation to quantitative amount, which serves as the "benchmark" (or denominator) in the equation, this concept represents the concentration percentage derived from the division. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 21 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-21Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-20Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-18Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-20 + Details Name: us-gaap_ConcentrationRiskPercentage1 Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91 + Details Name: us-gaap_DisaggregationOfRevenueLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4 + Details Name: us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: us-gaap_ConcentrationRiskByBenchmarkAxis=us-gaap_SalesRevenueNetMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ConcentrationRiskByTypeAxis=us-gaap_GeographicConcentrationRiskMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=srt_NorthAmericaMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=srt_AsiaMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=srt_EuropeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=aeis_OtherGeographicRegionsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=country_US Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=country_MX Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=country_TW Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=country_CN Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=aeis_OtherCountriesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=aeis_SemiconductorEquipmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=aeis_IndustrialAndMedicalMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=aeis_DataCenterComputingMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=aeis_TelecomAndNetworkingMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=us-gaap_ProductMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=aeis_ServiceAndOtherMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 59 R47.htm IDEA: XBRL DOCUMENT v3.24.3 REVENUE - Significant Customers (Details) - Customer Concentration Risk 3 Months Ended 9 Months Ended 12 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Dec. 31, 2023 Revenue Benchmark | Applied Materials, Inc Â Â Â Â Â Revenue, Major Customer [Line Items] Â Â Â Â Â Significant concentration risk 25.00% 23.00% 27.00% 21.00% Â Revenue Benchmark | Lam Research Corporation Â Â Â Â Â Revenue, Major Customer [Line Items] Â Â Â Â Â Significant concentration risk 11.00% Â 10.00% Â Â Accounts Receivable Benchmark | Applied Materials, Inc Â Â Â Â Â Revenue, Major Customer [Line Items] Â Â Â Â Â Significant concentration risk Â Â 28.00% Â 26.00% X - DefinitionFor an entity that discloses a concentration risk in relation to quantitative amount, which serves as the "benchmark" (or denominator) in the equation, this concept represents the concentration percentage derived from the division. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 21 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-21Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-20Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-18Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-20 + Details Name: us-gaap_ConcentrationRiskPercentage1 Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_EntityWideRevenueMajorCustomerLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_ConcentrationRiskByBenchmarkAxis=us-gaap_SalesRevenueNetMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ConcentrationRiskByTypeAxis=us-gaap_CustomerConcentrationRiskMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=aeis_AppliedMaterialsIncMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=aeis_LamResearchCorporationMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ConcentrationRiskByBenchmarkAxis=us-gaap_AccountsReceivableMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 60 R48.htm IDEA: XBRL DOCUMENT v3.24.3 INCOME TAX - Schedule of Tax Provision Benefit) and Effective Tax Rate for Income (Loss) from Continuing Operations (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 INCOME TAX Â Â Â Â Income (loss) from continuing operations, before income tax $ (14,547) $ 34,525 $ 11,796 $ 106,263 Income tax provision (benefit) $ (400) $ 874 $ 4,552 $ 13,405 Effective tax rate (2.70%) 2.50% 38.60% 12.60% X - DefinitionPercentage of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231 + Details Name: us-gaap_EffectiveIncomeTaxRateContinuingOperations Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionAmount of income (loss) from continuing operations, including income (loss) from equity method investments, before deduction of income tax expense (benefit), and income (loss) attributable to noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 9: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-S99-1Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.I.7) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(9)) -Publisher FASB -

URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Subparagraph (a) -SubTopic 20 -Topic 740 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482659/740-20-45-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)) -SubTopic 10 -Topic 235 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap_IncomeTaxExpenseBenefit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration XML 61 R49.htm IDEA: XBRL DOCUMENT v3.24.3 INCOME TAX - Narrative (Details) 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 INCOME TAX Â Â Â Â Federal statutory tax rate 21.00% 21.00% 21.00% 21.00% X - DefinitionPercentage of domestic federal statutory tax rate applicable to pretax income (loss). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.I.1.Q1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap_EffectiveIncomeTaxRateReconciliationAtFederalStatutoryIncomeTaxRate Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 62 R50.htm IDEA: XBRL DOCUMENT v3.24.3 STOCKHOLDERS' EQUITY AND EARNINGS PER SHARE - Components of and changes in AOCIL, net of income taxes (Details) - USD ($) $ in Thousands 3 Months Ended Sep. 30, 2024 Jun. 30, 2024 Mar. 31, 2024 Sep. 30, 2023 Jun. 30, 2023 Mar. 31, 2023 Components of and changes in accumulated other comprehensive income (loss), net of income taxes Â Â Â Â Â Â Beginning Balance $ 1,165,076 $ 1,142,883 $ 1,144,182 $ 1,125,279 $ 1,095,913 $ 1,066,267 Ending Balance 1,164,392 1,165,076 1,142,883 1,100,871 1,125,279 1,095,913 Accumulated Other Comprehensive Income (Loss) Â Â Â Â Â Â Components of and changes in accumulated other comprehensive income (loss), net of income taxes Â Â Â Â Â Â Beginning Balance (6,823) (1,855) 6,114 12,281 14,307 16,320 Other comprehensive income (loss) prior to reclassifications 9,032 (2,166) (5,184) (4,033) 1,022 399 Amounts reclassified from accumulated other comprehensive income (loss) (120) (2,802) (2,785) (2,858) (3,048) (2,412) Ending Balance 2,089 (6,823) (1,855) 5,390 12,281 14,307 Accumulated Foreign Currency Adjustment Attributable to Parent Â Â Â Â Â Â Components of and changes in accumulated other comprehensive income (loss), net of income taxes Â Â Â Â Â Â Beginning Balance (19,946) (17,385) (10,796) (14,552) (13,019) (12,823) Other comprehensive income (loss) prior to reclassifications 10,816 (2,561) (6,589) (5,069) (1,533) (196) Amounts reclassified from accumulated other comprehensive income (loss) 1,585 Â Â Â Â Â Ending Balance (7,545) (19,946) (17,385) (19,621) (14,552) (13,019) Change in Fair Value of Cash Flow Hedges Â Â Â Â Â Â Components of and changes in accumulated other comprehensive income (loss), net of income taxes Â Â Â Â Â Â Beginning Balance 1,738 4,094 5,474 9,830 10,031 11,848 Other comprehensive income (loss) prior to reclassifications 444 395 1,405 1,036 2,555 595 Amounts reclassified from accumulated other comprehensive income (loss) (2,182) (2,751) (2,785) (2,858) (2,756) (2,412) Ending Balance Â 1,738 4,094 8,008 9,830 10,031 Defined Employee Benefit Plan Â Â Â Â Â Â Components of and changes in accumulated other comprehensive income (loss), net of income taxes Â Â Â Â Â Â Beginning Balance 11,385 11,436 11,436 17,003 17,295 17,295 Other comprehensive income (loss) prior to reclassifications (2,228) Â Â Â Â Â Amounts reclassified from accumulated other comprehensive income (loss) 477 (51) Â Â (292) Â Ending Balance $ 9,634 $ 11,385 $ 11,436 $ 17,003 $ 17,003 $ 17,295 X - DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. + ReferencesNo definition available. + Details Name: us-gaap_AOCIAttributableToParentNetOfTaxRollForward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount after tax, before reclassification adjustments, of other comprehensive income (loss), attributable to parent. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 55 -Paragraph 15 -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482739/220-10-55-15 + Details Name: us-gaap_OciBeforeReclassificationsNetOfTaxAttributableToParent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount after tax of reclassification adjustments of other comprehensive income (loss) attributable to parent. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 55 -Paragraph 15 -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482739/220-10-55-15 + Details Name: us-gaap_ReclassificationFromAociCurrentPeriodNetOfTaxAttributableToParent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2 + Details Name: us-gaap_StockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedOtherComprehensiveIncomeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedTranslationAdjustmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedGainLossNetCashFlowHedgeParentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedDefinedBenefitPlansAdjustmentNetUnamortizedGainLossMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 63 R51.htm IDEA: XBRL DOCUMENT v3.24.3 STOCKHOLDERS' EQUITY AND EARNINGS PER SHARE - Amounts Reclassified from AOCIL to Consolidated Statements of Operations (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Jun. 30, 2024 Mar. 31, 2024 Sep. 30, 2023 Jun. 30, 2023 Mar. 31, 2023 Sep. 30, 2024 Sep. 30, 2023 Reclassification Adjustment out of Accumulated Other Comprehensive Income [Line Items] Â Â Â Â Â Â Â Â Interest expense $ (6,378) Â Â $ (3,780) Â Â $ (20,461) $ (9,368) Other income (expense), net (8,139) Â Â 1,848 Â Â (6,122) 1,425 Net Income (Loss), Including Portion Attributable to Noncontrolling Interest (14,905) $ 15,029 $ 5,216 32,721 $ 27,140 $ 30,921 5,340 90,782 Accumulated Other Comprehensive Income (Loss) | Reclassified from accumulated other comprehensive income (loss) Â Â Â Â Â Â Â Â Reclassification Adjustment out of Accumulated Other Comprehensive Income [Line Items] Â Â Â Â Â Â Â Â Net Income (Loss), Including Portion Attributable to Noncontrolling Interest (120) Â Â (2,858) Â Â (5,707) (8,318) Foreign currency translation | Reclassified from accumulated other comprehensive income (loss) Â Â Â Â Â Â Â Â Reclassification Adjustment out of Accumulated Other Comprehensive Income [Line Items] Â Â Â Â Â Â Â Â Other income (expense), net 1,585 Â Â Â Â Â 1,585 Â Cash flow hedges | Reclassified from accumulated other comprehensive income (loss) Â Â Â Â Â Â Â Â Reclassification Adjustment out of Accumulated Other Comprehensive Income [Line Items] Â Â Â Â Â Â Â Â Interest expense (2,182) Â Â $ (2,858) Â Â (7,718) (8,026) Defined employee benefit plan | Reclassified from accumulated other comprehensive income (loss) Â Â Â Â Â Â Â Â Reclassification Adjustment out of Accumulated Other Comprehensive Income [Line Items] Â Â Â Â Â Â Â Â Other income (expense), net $ 477 Â Â Â Â Â $ 426 $ (292) X - DefinitionAmount of interest expense classified as operating and nonoperating. Includes, but is not limited to, cost of borrowing accounted for as interest expense. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-24Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483013/835-20-50-1 + Details Name: us-gaap_InterestExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of income (expense) related to nonoperating activities, classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_OtherNonoperatingIncomeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe consolidated profit or loss for the period, net of income taxes, including the portion attributable to the noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-11Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 205 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478009/946-205-45-3Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher

FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-S99-1Reference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 31: http://www.xbrl.org/2003/role/exampleRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 4J -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4JReference 32: http://www.xbrl.org/2003/role/exampleRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 4K -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4KReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 34: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-2Reference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 37: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1A + Details Name: us-gaap_ProfitLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6 + Details Name: us-gaap_ReclassificationAdjustmentOutOfAccumulatedOtherComprehensiveIncomeLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedOtherComprehensiveIncomeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ReclassificationOutOfAccumulatedOtherComprehensiveIncomeAxis=us-gaap_ReclassificationOutOfAccumulatedOtherComprehensiveIncomeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedTranslationAdjustmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedGainLossNetCashFlowHedgeParentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedDefinedBenefitPlansAdjustmentNetUnamortizedGainLossMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 64 R52.htm IDEA: XBRL DOCUMENT v3.24.3 STOCKHOLDERS' EQUITY AND EARNINGS PER SHARE - Earnings per Share (Details) - USD ($) $ / shares in Units, shares in Thousands, $ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Antidilutive Securities Excluded from Computation of Earnings Per Share [Line Items] Â Â Â Â Income (loss) from continuing operations $ (14,147) $ 33,651 $ 7,244 $ 92,858 Basic weighted-average common shares outstanding 37,532 37,575 37,455 37,541 Dilutive effect of stock awards Â 279 330 301 Diluted weighted-average common shares outstanding 37,532 37,854 37,785 37,842 EPS from continuing operations Â Â Â Â Basic EPS (in dollars per share) $ (0.38) $ 0.90 $ 0.19 $ 2.47 Diluted EPS (in dollars per share) $ (0.38) $ 0.89 $ 0.19 $ 2.45 Anti-dilutive shares 3,447 3,207 3,216 3,264 Stock awards Â Â Â Â EPS from continuing operations Â Â Â Â Anti-dilutive shares 371 27 4 84 Warrants Â Â Â Â EPS from continuing operations Â Â Â Â Anti-dilutive shares 3,076 3,180 3,212 3,180 X - DefinitionSecurities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so would increase EPS or EPU amounts or decrease loss per share or unit amounts for the period presented. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1 + Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncomeLossFromContinuingOperationsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) from continuing operations per each share of common stock or unit outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7Reference 17: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_IncomeLossFromContinuingOperationsPerBasicShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) derived from continuing operations during the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_IncomeLossFromContinuingOperationsPerDilutedShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionAdditional shares included in the calculation of diluted EPS as a result of the potentially dilutive effect of share based payment arrangements using the treasury stock method. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480454/718-10-45-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-22Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 23 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-23Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-28A + Details Name: us-gaap_IncrementalCommonSharesAttributableToShareBasedPaymentArrangements Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionAmount, after deduction of tax, noncontrolling interests, dividends on preferred stock and participating securities; of income (loss) from continuing operations available to common shareholders. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-11 + Details Name: us-gaap_NetIncomeLossFromContinuingOperationsAvailableToCommonShareholdersBasic Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-16 + Details Name: us-gaap_WeightedAverageNumberOfDilutedSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10 + Details Name: us-gaap_WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis=us-gaap_StockCompensationPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis=us-gaap_WarrantMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 65 R53.htm IDEA: XBRL DOCUMENT v3.24.3 STOCKHOLDERS' EQUITY AND EARNINGS PER SHARE - Narrative (Details) Sep. 30, 2024 $ / shares Convertible Notes due 2028 | Minimum Â Debt Instrument [Line Items] Â Stock price $ 137.46 Convertible Notes due 2028 | Maximum Â Debt Instrument [Line Items] Â Stock price 179.76 Warrants Â Debt Instrument [Line Items] Â Exercise price $ 179.76 X - DefinitionExercise price per share or per unit of warrants or rights outstanding. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3 + Details Name: us-gaap_ClassOfWarrantOrRightExercisePriceOfWarrantsOrRights1 Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69FReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 26: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 27: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1 + Details Name: us-gaap_DebtInstrumentLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPrice of a single share of a number of saleable stocks of a company. + ReferencesNo definition available. + Details Name: us-gaap_SharePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis=aeis_ConvertibleSeniorNotesDueTwoThousandTwentyEightMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis=us-gaap_WarrantMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 66 R54.htm IDEA: XBRL DOCUMENT v3.24.3 STOCKHOLDERS' EQUITY AND EARNINGS PER SHARE - Share Repurchase (Details) - USD ($) $ / shares in Units, shares in Thousands, $ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 STOCKHOLDERS' EQUITY AND EARNINGS PER SHARE Â Â Â Â Amount paid or accrued to repurchase shares $ 1,770 $ 40,000 $ 1,770 $ 40,000 Number of shares repurchased 19 378 19 378 Average repurchase price per share $ 93.58 $ 105.74 $ 93.58 $ 105.74 Remaining amount authorized by Board of Directors for future share repurchases $ 197,400 Â $ 197,400 Â X - ReferencesNo definition available. + Details Name: aeis_EquityAndEarningPerShareAbstract Namespace Prefix: aeis_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe cash outflow to reacquire common stock during the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsForRepurchaseOfCommonStock Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount remaining authorized for purchase of share under share repurchase plan. Includes, but is not limited to, repurchase of stock and unit of ownership. + ReferencesNo definition available. + Details Name: us-gaap_StockRepurchaseProgramRemainingAuthorizedRepurchaseAmount1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionNumber of shares that have been repurchased during the period and have not been retired and are not held in treasury. Some state laws may govern the circumstances under which an entity may acquire its own stock and prescribe the accounting treatment therefore. This element is used when state law does not recognize treasury stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockRepurchasedDuringPeriodShares Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionTotal cost of shares repurchased divided by the total number of shares repurchased. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481549/505-30-45-1 + Details Name: us-gaap_TreasuryStockAcquiredAverageCostPerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration XML 67 R55.htm IDEA: XBRL DOCUMENT v3.24.3 FAIR VALUE MEASUREMENTS - Assets and Liabilities Measured at Fair Value (Details) - Fair Value, Recurring - USD ($) $ in Thousands Sep. 30, 2024 Dec. 31, 2023 Certificates of Deposit | Other Current Assets Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Net assets measured at fair value on a recurring basis $ 157 $ 163 Forward Contracts | Other accrued expenses Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Liabilities, Fair Value Disclosure 168 Â Interest Rate Swap | Other assets Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Net assets measured at fair value on a recurring basis Â 6,995 Investments | Other assets Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Net assets measured at fair value on a recurring basis 9,668 5,952 Fair Value, Inputs, Level 2 | Certificates of Deposit | Other Current Assets Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Net assets measured at fair value on a recurring basis 157 163 Fair Value, Inputs, Level 2 | Forward Contracts | Other accrued expenses Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Liabilities, Fair Value Disclosure 168 Â Fair Value, Inputs, Level 2 | Interest Rate Swap | Other assets Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Net assets measured at fair value on a recurring basis Â 6,995 Fair Value, Inputs, Level 2 | Investments | Other assets Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Net assets measured at fair value on a recurring basis $ 9,668 $ 5,952 X - DefinitionFair value portion of asset recognized for present right to economic benefit. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_AssetsFairValueDisclosure Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-3 + Details Name: us-gaap_FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionFair value of financial and nonfinancial obligations. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_LiabilitiesFairValueDisclosure Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_FairValueByMeasurementFrequencyAxis=us-gaap_FairValueMeasurementsRecurringMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=us-gaap_CertificatesOfDepositMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_BalanceSheetLocationAxis=us-gaap_OtherCurrentAssetsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=us-gaap_ForwardContractsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_BalanceSheetLocationAxis=aeis_OtherAccruedLiabilitiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=us-gaap_InterestRateSwapMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_BalanceSheetLocationAxis=us-gaap_OtherNoncurrentAssetsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=us-gaap_InvestmentsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByFairValueHierarchyLevelAxis=us-gaap_FairValueInputsLevel2Member Namespace Prefix: Data Type: na Balance Type: Period Type: XML 68 R56.htm IDEA: XBRL DOCUMENT v3.24.3 DERIVATIVE FINANCIAL INSTRUMENTS (Details) - USD ($) $ in Millions Sep. 30, 2024 Dec. 31, 2023 Foreign exchange forward Â Â Derivative Instruments, Gain (Loss) [Line Items] Â Â Derivative, notional amount $ 105.9 $ 0.0 X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4E -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4E + Details Name: us-gaap_DerivativeInstrumentsGainLossLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionNominal or face amount used to calculate payment on derivative. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 815 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-1BReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 815 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-1A + Details Name: us-gaap_DerivativeNotionalAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: na Period Type: instant X - Details Name: us-gaap_DerivativeInstrumentRiskAxis=us-gaap_ForeignExchangeForwardMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 69 R57.htm IDEA: XBRL DOCUMENT v3.24.3 ACCOUNTS RECEIVABLE, NET (Details) - USD ($) $ in Thousands 9 Months Ended Sep. 30, 2024 Dec. 31, 2023 ACCOUNTS RECEIVABLE, NET Â Â Accounts receivable, net $ 259,399 $ 282,430 Balance at beginning of period 1,762 Â Additions 94 Â Deductions - write-offs, net of recoveries (399) Â Balance at end of period $ 1,457 Â X - DefinitionAmount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481990/310-10-45-2 + Details Name: us-gaap_AccountsReceivableNetCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of allowance for credit loss on accounts receivable. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479344/326-20-45-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481962/310-10-50-4Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479319/326-20-50-13Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479319/326-20-50-13 + Details Name: us-gaap_AllowanceForDoubtfulAccountsReceivable Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of increase (decrease) in allowance for credit loss on accounts receivable. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479319/326-20-50-13 + Details Name: us-gaap_AllowanceForDoubtfulAccountsReceivablePeriodIncreaseDecrease Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: na Period Type: duration X - DefinitionAmount of direct write-downs of accounts receivable charged against the allowance. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479319/326-20-50-13 + Details Name: us-gaap_AllowanceForDoubtfulAccountsReceivableWriteOffs Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_ReceivablesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 70 R58.htm IDEA: XBRL DOCUMENT v3.24.3 INVENTORIES (Details) - USD ($) $ in Thousands Sep. 30, 2024 Dec. 31, 2023 INVENTORIES Â Â Parts and raw materials $ 273,793 $ 249,698 Work in process 19,502 14,595 Finished goods 84,445 71,844 Total $ 377,740 $ 336,137 X - ReferencesNo definition available. + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionCarrying amount, net of valuation reserves and adjustments, as of the balance sheet date of merchandise or goods held by the company that are readily available for sale. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 330 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.BB) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480581/330-10-S99-2Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryFinishedGoodsNetOfReserves Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCarrying amount, net of valuation reserves and adjustments, as of the balance sheet date of items purchased for use as components of a finished product or pieces of machinery and equipment plus any items in their natural and unrefined state. This element may be used when the reporting entity combines raw materials and purchased parts into an aggregate amount. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 330 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.BB) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480581/330-10-S99-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryRawMaterialsAndPurchasedPartsNetOfReserves Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCarrying amount, net of reserves and adjustments, as of the balance sheet date of merchandise or goods which are partially completed. This inventory is generally comprised of raw materials, labor and factory overhead costs, which require further materials, labor and overhead to be converted into finished goods, and which generally require the use of estimates to determine percentage complete and pricing. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 330 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.BB) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480581/330-10-S99-2Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryWorkInProcessNetOfReserves Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 71 R59.htm IDEA: XBRL DOCUMENT v3.24.3 INTANGIBLE ASSETS AND GOODWILL (Details) - USD ($) $ in Thousands Sep. 30, 2024 Dec. 31, 2023 Finite-Lived Intangible Assets [Line Items] Â Â Gross Carrying Amount $ 298,693 $ 293,787 Accumulated Amortization (153,403) (132,309) Total $ 145,290 $ 161,478 Weighted Average Remaining Useful Life (in years) 8 years 1 month 6 days 8 years 6 months Technology Â Â Finite-Lived Intangible Assets [Line Items] Â Â Gross Carrying Amount $ 100,988 $ 97,961 Accumulated Amortization (69,407) (60,412) Total $ 31,581 $ 37,549 Weighted Average Remaining Useful Life (in years) 7 years 1 month 6 days 6 years 9 months 18 days Customer relationships Â Â Finite-Lived Intangible Assets [Line Items] Â Â Gross Carrying Amount $ 170,486 $ 168,685 Accumulated Amortization (68,944) (58,835) Total $ 101,542 $ 109,850 Weighted Average Remaining Useful Life (in years) 8 years 9 months 18 days 9 years 6 months Trademarks and other Â Â Finite-Lived Intangible Assets [Line Items] Â Â Gross Carrying Amount $ 27,219 $ 27,141 Accumulated Amortization (15,052) (13,062) Total $ 12,167 $ 14,079 Weighted Average Remaining Useful Life (in years) 4 years 10 months 24 days 5 years 7 months 6 days X - DefinitionUseful life of finite-lived intangible assets, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesNo definition available. + Details Name: us-gaap_FiniteLivedIntangibleAssetUsefulLife Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - DefinitionAccumulated amount of amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 10 -Name Accounting Standards Codification -Section S45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480265/350-10-S45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAccumulatedAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount before amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 10 -Name Accounting Standards Codification -Section S45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480265/350-10-S45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 928 -SubTopic 340 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478859/928-340-50-1 + Details Name: us-gaap_FiniteLivedIntangibleAssetsGross Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 926 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483154/926-20-50-5 + Details Name: us-gaap_FiniteLivedIntangibleAssetsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount after amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 926 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483154/926-20-50-5 + Details Name: us-gaap_FiniteLivedIntangibleAssetsNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=us-gaap_TechnologyEquipmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=us-gaap_CustomerRelationshipsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=aeis_TrademarksAndOtherMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 72 R60.htm IDEA: XBRL DOCUMENT v3.24.3 INTANGIBLE ASSETS AND GOODWILL - Amortization Expense Related to Intangible Assets (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 INTANGIBLE ASSETS AND GOODWILL Â Â Â Â Amortization of intangible assets $ 6,772 $ 7,049 $ 20,519 $ 21,186 X - DefinitionThe aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-2 + Details Name: us-gaap_AmortizationOfIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 73 R61.htm IDEA: XBRL DOCUMENT v3.24.3 INTANGIBLE ASSETS AND GOODWILL - Estimated Future Amortization Expense (Details) - USD ($) $ in Thousands Sep. 30, 2024 Dec. 31, 2023 INTANGIBLE ASSETS AND GOODWILL Â Â 2024 (remaining) $ 5,573 Â 2025 22,148 Â 2026 20,063 Â 2027 17,815 Â 2028 16,569 Â Thereafter 63,122 Â Total $ 145,290 $ 161,478 X - DefinitionAmount of amortization expense for assets, excluding financial assets and goodwill, lacking physical substance with a finite life expected to be recognized after the fourth fiscal year following the latest fiscal year. Excludes interim and annual periods when interim periods are reported on a rolling approach, from latest balance sheet date. + ReferencesNo definition available. + Details Name: aeis_FiniteLivedIntangibleAssetsAmortizationExpenseAfterYearFour Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in remainder of current fiscal year. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFour Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearThree Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 926 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483154/926-20-50-5 + Details Name: us-gaap_FiniteLivedIntangibleAssetsNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 74 R62.htm IDEA: XBRL DOCUMENT v3.24.3 INTANGIBLE ASSETS AND GOODWILL - Change in Goodwill (Details) $ in Thousands 9 Months Ended Sep. 30, 2024 USD ($) INTANGIBLE ASSETS AND GOODWILL Â Balance at beginning of period $ 283,840 Additions from acquisition 16,601 Foreign currency translation and other (1,405) Balance at end of period $ 299,036 X - DefinitionAmount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482598/350-20-45-1Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_Goodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of increase in asset representing future economic benefits arising from other assets acquired in a business combination that are not individually identified and separately recognized resulting from a business combination. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1 + Details Name: us-gaap_GoodwillAcquiredDuringPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of foreign currency translation gain (loss) which increases (decreases) asset representing future economic benefit from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1 + Details Name: us-gaap_GoodwillForeignCurrencyTranslationGainLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 75 R63.htm IDEA: XBRL DOCUMENT v3.24.3 RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGES - Restructuring, Asset Impairments, and Other Charges (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended 33 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGES Â Â Â Â Â Restructuring $ 27,790 $ 4,709 $ 27,844 $ 8,906 $ 58,934 Other charges 756 Â 1,572 Â Â Total restructuring, asset impairments, and other charges $ 28,546 $ 4,709 $ 29,416 $ 8,906 Â X - DefinitionAmount of other miscellaneous charges. + ReferencesNo definition available. + Details Name: aeis_OtherMiscellaneousCharges Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of expenses associated with exit or disposal activities pursuant to an authorized plan. Excludes expenses related to a discontinued operation or an asset retirement obligation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482047/420-10-45-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 5.P.3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-1 + Details Name: us-gaap_RestructuringCharges Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, after cash payment, of expenses associated with exit or disposal activities pursuant to an authorized plan and expenses resulting from the write-down of assets. Excludes expenses related to a business combination, a discontinued operation or an asset retirement obligation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_RestructuringCostsAndAssetImpairmentCharges Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_RestructuringCostsAndAssetImpairmentChargesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 76 R64.htm IDEA: XBRL DOCUMENT v3.24.3 RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGES - Narrative (Details) - USD ($) $ in Millions Sep. 30, 2024 Jul. 29, 2024 Dec. 31, 2023 2024 Plan Â Â Â Restructuring Cost and Reserve [Line Items] Â Â Â Expected additional charges $ 28.5 Â $ 1.0 Accrued Liabilities Â Â Â Restructuring Cost and Reserve [Line Items] Â Â Â Restructuring reserve 28.3 Â Â Other long-term liabilities Â Â Â Restructuring Cost and Reserve [Line Items] Â Â Â Restructuring reserve $ 5.6 Â Â Minimum | 2024 Plan Â Â Â Restructuring Cost and Reserve [Line Items] Â Â Â Expected additional charges Â $ 1.0 Â Maximum | 2024 Plan Â Â Â Restructuring Cost and Reserve [Line Items] Â Â Â Expected additional charges Â $ 2.0 Â X - DefinitionAmount expected to be recognized in earnings for the specified restructuring cost. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1 + Details Name: us-gaap_RestructuringAndRelatedCostExpectedCost1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1 + Details Name: us-gaap_RestructuringCostAndReserveLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionCarrying amount as of the balance sheet date of known and estimated obligations associated with exit from or disposal of business activities or restructurings pursuant to a duly authorized plan, which are expected to be paid in the next twelve months or in the normal operating cycle if longer. Costs of such activities include those for one-time termination benefits, termination of an operating lease or other contract, consolidating or closing facilities, relocating employees, and costs associated with an ongoing benefit arrangement, but excludes costs associated with the retirement of a long-lived asset. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1 + Details Name: us-gaap_RestructuringReserveCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_RestructuringPlanAxis=aeis_TwoThousandAndTwentyFourRestructuringPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_BalanceSheetLocationAxis=us-gaap_AccruedLiabilitiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_BalanceSheetLocationAxis=us-gaap_OtherNoncurrentLiabilitiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 77 R65.htm IDEA: XBRL DOCUMENT v3.24.3 RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGES - Changes in Restructuring Liabilities (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended 33 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Restructuring Reserve [Roll Forward] Â Â Â Â Â Beginning balance Â Â $ 17,342 Â Â Cost incurred and charged to expense $ 27,790 $ 4,709 27,844 $ 8,906 $ 58,934 Cost paid Â Â (11,714) Â Â Foreign currency translation Â Â 457 Â Â Ending balance 33,929 Â 33,929 Â 33,929 2024 Plan Â Â Â Â Â Restructuring Reserve [Roll Forward] Â Â Â Â Â Cost incurred and charged to expense Â Â 28,454 Â 28,454 Cost paid Â Â (855) Â Â Foreign currency translation Â Â 457 Â Â Ending balance 28,056 Â 28,056 Â 28,056 2023 Plan Â Â Â Â Â Restructuring Reserve [Roll Forward] Â Â Â Â Â Beginning balance Â Â 14,224 Â Â Cost incurred and charged to expense Â Â (698) Â 16,405 Cost paid Â Â (7,653) Â Â Ending balance $ 5,873 Â 5,873 Â 5,873 2022 Plan Â Â Â Â Â Restructuring Reserve [Roll Forward] Â Â Â Â Â Beginning balance Â Â 2,930 Â Â Cost incurred and charged to expense Â Â 88 Â $ 14,075 Cost paid Â Â (3,018) Â Â Other Â Â Â Â Â Restructuring Reserve [Roll Forward] Â Â Â Â Â Beginning balance Â Â 188 Â Â Cost paid Â Â $ (188) Â Â X - DefinitionAmount of cash payments made as the result of exit or disposal activities. Excludes payments associated with a discontinued operation or an asset retirement obligation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-17 + Details Name: us-gaap_PaymentsForRestructuring Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of expenses associated with exit or disposal activities pursuant to an authorized plan. Excludes expenses related to a discontinued operation or an asset retirement obligation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482047/420-10-45-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 5.P.3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-1 + Details Name: us-gaap_RestructuringCharges Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionCarrying amount (including both current and noncurrent portions of the accrual) as of the balance sheet date pertaining to a specified type of cost associated with exit from or disposal of business activities or restructuring pursuant to a duly authorized plan. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1 + Details Name: us-gaap_RestructuringReserve Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. + ReferencesNo definition available. + Details Name: us-gaap_RestructuringReserveRollForward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of foreign currency translation gain (loss) which decreases (increases) the restructuring reserve. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1 + Details Name: us-gaap_RestructuringReserveTranslationAdjustment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: us-gaap_RestructuringPlanAxis=aeis_TwoThousandAndTwentyFourRestructuringPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RestructuringPlanAxis=aeis_TwoThousandAndTwentyThreeRestructuringPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RestructuringPlanAxis=aeis_TwentyTwentyTwoRestructuringPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RestructuringPlanAxis=aeis_TwentyEighteenRestructuringPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 78 R66.htm IDEA: XBRL DOCUMENT v3.24.3 RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGES - Changes in Restructuring Plans (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended 33 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Restructuring Cost and Reserve [Line Items] Â Â Â Â Â Restructuring Charges $ 27,790 $ 4,709 $ 27,844 $ 8,906 $ 58,934 2024 Plan Â Â Â Â Â Restructuring Cost and Reserve [Line Items] Â Â Â Â Â Restructuring Charges Â Â 28,454 Â 28,454 2023 Plan Â Â Â Â Â Restructuring Cost and Reserve [Line Items] Â Â Â Â Â Restructuring Charges Â Â (698) Â 16,405 2022 Plan Â Â Â Â Â Restructuring Cost and Reserve [Line Items] Â Â Â Â Â Restructuring Charges Â Â 88 Â 14,075 Employee Severance Â Â Â Â Â Restructuring Cost and Reserve [Line Items] Â Â Â Â Â Restructuring Charges 27,356 $ 4,709 27,410 $ 8,906 58,500 Employee Severance | 2024 Plan Â Â Â Â Â Restructuring Cost and Reserve [Line Items] Â Â Â Â Â Restructuring Charges Â Â Â Â 28,020 Employee Severance | 2023 Plan Â Â Â Â Â Restructuring Cost and Reserve [Line Items] Â Â Â Â Â Restructuring Charges Â Â Â Â 16,405 Employee Severance | 2022 Plan Â Â Â Â Â Restructuring Cost and Reserve [Line Items] Â Â Â Â Â Restructuring Charges Â Â Â Â 14,075 Facility relocation and closure charges Â Â Â Â Â Restructuring Cost and Reserve [Line Items] Â Â Â Â Â Restructuring Charges $ 434 Â $ 434 Â 434 Facility relocation and closure charges | 2024 Plan Â Â Â Â Â Restructuring Cost and Reserve [Line Items] Â Â Â Â Â Restructuring Charges Â Â Â Â $ 434 X - DefinitionAmount of expenses associated with exit or disposal activities pursuant to an authorized plan. Excludes expenses related to a discontinued operation or an asset retirement obligation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482047/420-10-45-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 5.P.3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-1 + Details Name: us-gaap_RestructuringCharges Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1 + Details Name: us-gaap_RestructuringCostAndReserveLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_RestructuringPlanAxis=aeis_TwoThousandAndTwentyFourRestructuringPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RestructuringPlanAxis=aeis_TwoThousandAndTwentyThreeRestructuringPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RestructuringPlanAxis=aeis_TwentyTwentyTwoRestructuringPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RestructuringCostAndReserveAxis=us-gaap_EmployeeSeveranceMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RestructuringCostAndReserveAxis=us-gaap_FacilityClosingMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 79 R67.htm IDEA: XBRL DOCUMENT v3.24.3 WARRANTIES - Narrative (Details) 9 Months Ended Sep. 30, 2024 Minimum Â Product Liability Contingency [Line Items] Â Product warranty term 12 months Maximum Â Product Liability Contingency [Line Items] Â Product warranty term 36 months X - DefinitionStandard Product Warranty Term + ReferencesNo definition available. + Details Name: aeis_StandardProductWarrantyTerm Namespace Prefix: aeis_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 5.Y.Q2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480102/450-20-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-4Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-9 + Details Name: us-gaap_ProductLiabilityContingencyLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 80 R68.htm IDEA: XBRL DOCUMENT v3.24.3 WARRANTIES - Changes in Product Warranty Obligation (Details) $ in Thousands 9 Months Ended Sep. 30, 2024 USD ($) Movement in Standard Product Warranty Accrual [Roll Forward] Â Balance at beginning of period $ 4,007 Net increases to accruals 2,088 Warranty expenditures (1,640) Effect of changes in exchange rates 155 Balance at end of period $ 4,610 X - DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. + ReferencesNo definition available. + Details Name: us-gaap_MovementInStandardAndExtendedProductWarrantyIncreaseDecreaseRollForward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionCarrying value as of the balance sheet date of obligations incurred through that date and payable for estimated claims under standard and extended warranty protection rights granted to customers. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(15)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(5) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8 + Details Name: us-gaap_ProductWarrantyAccrual Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of increase in the standard and extended product warranty accrual from warranties issued. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8 + Details Name: us-gaap_ProductWarrantyAccrualWarrantiesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe expense charged against earnings for the period pertaining to standard and extended warranties on the entity's goods and services granted to customers. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8 + Details Name: us-gaap_ProductWarrantyExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of foreign currency translation gain (loss) which decreases (increases) the standard and extended product warranty accrual. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8 + Details Name: us-gaap_StandardAndExtendedProductWarrantyAccrualForeignCurrencyTranslationGainLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 81 R69.htm IDEA: XBRL DOCUMENT v3.24.3 LEASES - Components of Operating Lease Cost (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 LEASES Â Â Â Â Operating lease cost $ 5,859 $ 5,629 $ 17,575 $ 16,965 Short-term and variable lease cost 897 1,100 2,474 3,170 Total operating lease cost $ 6,756 $ 6,729 $ 20,049 $ 20,135 X - DefinitionRepresents the amount of short-term and variable lease costs. + ReferencesNo definition available. + Details Name: aeis_ShortTermAndVariableLeaseCosts Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of lease cost recognized by lessee for lease contract. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_LeaseCost Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_LeasesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of single lease cost, calculated by allocation of remaining cost of lease over remaining lease term. Includes, but is not limited to, single lease cost, after impairment of right-of-use asset, calculated by amortization of remaining right-of-use asset and accretion of lease liability. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeaseCost Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration XML 82 R70.htm IDEA: XBRL DOCUMENT v3.24.3 LEASES - Maturities of Operating Lease Liabilities (Details) $ in Thousands Sep. 30, 2024 USD ($) LEASES Â 2024 (remaining) $ 6,127 2025 22,557 2026 17,077 2027 13,616 2028 13,171 Thereafter 50,930 Total lease payments 123,478 Less: Interest (24,854) Present value of lease liabilities 98,624 Payments for lease agreements that commence in the future $ 32,800 X - DefinitionAmount of payments for lease agreements that commence in the future. + ReferencesNo definition available. + Details Name: aeis_FutureCommencementLeaseAgreementPayments Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payments for operating lease, due after fourth fiscal year following latest fiscal year. + ReferencesNo definition available. + Details Name: aeis_LesseeOperatingLeaseLiabilityPaymentsDueAfterYearFour Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_LeasesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearFour Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearThree Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearTwo Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease having initial or remaining lease term in excess of one year to be paid in remainder of current fiscal year. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payments in excess of discounted obligation for lease payments for operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityUndiscountedExcessAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 83 R71.htm IDEA: XBRL DOCUMENT v3.24.3 LEASES - Other Lease Cost Information (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Dec. 31, 2023 Lessee, Lease, Description [Line Items] Â Â Â Â Â Weighted average remaining lease term (in years) 7 years 9 months 18 days Â 7 years 9 months 18 days Â 8 years 3 months 18 days Weighted average discount rate 5.50% Â 5.50% Â 5.00% Cash paid for operating leases $ 5,823 $ 5,683 $ 17,476 $ 17,290 Â Right-of-use assets obtained in exchange for operating lease liabilities 7,367 $ 9,271 $ 25,784 $ 11,900 Â Zhongshan, China Â Â Â Â Â Lessee, Lease, Description [Line Items] Â Â Â Â Â Operating lease right of use asset, decrease 20,700 Â Â Â Â Operating lease liability, decrease $ 20,700 Â Â Â Â X - DefinitionDecrease in value of lessee's discounted obligation for lease payments from operating lease. + ReferencesNo definition available. + Details Name: aeis_OperatingLeaseLiabilityDecrease Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionDecrease in amount of lessee's right to use underlying asset under operating lease. + ReferencesNo definition available. + Details Name: aeis_OperatingLeaseRightOfUseAssetDecrease Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7AReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-3 + Details Name: us-gaap_LesseeLeaseDescriptionLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash outflow from operating lease, excluding payments to bring another asset to condition and location necessary for its intended use. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-5Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeasePayments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionWeighted average discount rate for operating lease calculated at point in time. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeaseWeightedAverageDiscountRatePercent Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionWeighted average remaining lease term for operating lease, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeaseWeightedAverageRemainingLeaseTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - DefinitionAmount of increase in right-of-use asset obtained in exchange for operating lease liability. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_RightOfUseAssetObtainedInExchangeForOperatingLeaseLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - Details Name: srt_StatementGeographicalAxis=aeis_ZhongshanChinaMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 84 R72.htm IDEA: XBRL DOCUMENT v3.24.3 STOCK-BASED COMPENSATION (Details) shares in Thousands, $ in Millions 9 Months Ended Sep. 30, 2024 USD ($) plan shares Stock-based incentive compensation plans | plan 2 Awards term 10 years Modification of stock-based compensation expense | $ $ 1.8 The 2023 Incentive Plan Â Shares available for future issuance 1,809 Restricted Stock Units (RSUs) | Minimum Â Vesting period 3 years Employee Stock Â Shares available for future issuance 556 Employee Stock | Minimum Â Vesting period 3 years Employee Stock | Maximum Â Vesting period 4 years X - DefinitionNumber Of Stock Based Incentive Compensation Plans + ReferencesNo definition available. + Details Name: aeis_NumberOfStockBasedIncentiveCompensationPlans Namespace Prefix: aeis_ Data Type: xbrli:integerItemType Balance Type: na Period Type: duration X - DefinitionPeriod over which grantee's right to exercise award under share-based payment arrangement is no longer contingent on satisfaction of service or performance condition, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. Includes, but is not limited to, combination of market, performance or service condition. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardAwardVestingPeriod1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionThe difference between the maximum number of shares (or other type of equity) authorized for issuance under the plan (including the effects of amendments and adjustments), and the sum of: 1) the number of shares (or other type of equity) already issued upon exercise of options or other equity-based awards under the plan; and 2) shares (or other type of equity) reserved for issuance on granting of outstanding awards, net of cancellations and forfeitures, if applicable. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardNumberOfSharesAvailableForGrant Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionAn excess of the fair value of the modified award over the fair value of the award immediately before the modification. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardPlanModificationIncrementalCompensationCost Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionPeriod from grant date that an equity-based award expires, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardExpirationPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_PlanNameAxis=aeis_Omnibus2023IncentivePlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=us-gaap_RestrictedStockUnitsRSUMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=us-gaap_EmployeeStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 85 R73.htm IDEA: XBRL DOCUMENT v3.24.3 STOCK-BASED COMPENSATION - Schedule of Share-Based Compensation Expense (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 STOCK-BASED COMPENSATION Â Â Â Â Stock-based compensation expense $ 11,914 $ 8,075 $ 34,303 $ 22,813 X - DefinitionAmount of expense for award under share-based payment arrangement. Excludes amount capitalized. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 14.F) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479830/718-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_AllocatedShareBasedCompensationExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 86 R74.htm IDEA: XBRL DOCUMENT v3.24.3 STOCK-BASED COMPENSATION - Summary of Restricted Stock Units activity (Details) - Restricted Stock Units (RSUs) shares in Thousands 9 Months Ended Sep. 30, 2024 $ / shares shares Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Â RSUs outstanding at beginning of period | shares 917 RSUs granted | shares 546 RSUs vested | shares (286) RSUs forfeited | shares (87) RSUs outstanding at end of period | shares 1,090 Weighted Average Grant Date Fair Value, Beginning Balance | $ / shares $ 85.96 Weighted Average Grant Date Fair Value, granted | $ / shares 104.79 Weighted Average Grant Date Fair Value, Vested | $ / shares 90.22 Weighted Average Grant Date Fair Value, Forfeited | $ / shares 77.73 Weighted Average Grant Date Fair Value, Ending Balance | $ / shares $ 94.92 X - DefinitionThe number of equity-based payment instruments, excluding stock (or unit) options, that were forfeited during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeitedInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionWeighted average fair value as of the grant date of equity-based award plans other than stock (unit) option plans that were not exercised or put into effect as a result of the occurrence of a terminating event. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeituresWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe number of grants made during the period on other than stock (or unit) option plans (for example, phantom stock or unit plan, stock or unit appreciation rights plan, performance target plan). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrantsInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe number of non-vested equity-based payment instruments, excluding stock (or unit) options, that validly exist and are outstanding as of the balance sheet date. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionPer share or unit weighted-average fair value of nonvested award under share-based payment arrangement. Excludes share and unit options. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe number of equity-based payment instruments, excluding stock (or unit) options, that vested during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsVestedInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe weighted average fair value as of grant date pertaining to an equity-based award plan other than a stock (or unit) option plan for which the grantee gained the right during the reporting period, by satisfying service and performance requirements, to receive or retain shares or units, other instruments, or cash in accordance with the terms of the arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsVestedInPeriodWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 1D -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-1DReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10

-Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification 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-Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(v) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe weighted average grant-date fair value of options granted during the reporting period as calculated by applying the disclosed option pricing methodology. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_AwardTypeAxis=us-gaap_RestrictedStockUnitsRSUMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 87 R75.htm IDEA: XBRL DOCUMENT v3.24.3 STOCK-BASED COMPENSATION - Summary of Stock Option Activity (Details) - Time Based shares in Thousands 9 Months Ended Sep. 30, 2024 $ / shares shares Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Â Options outstanding at beginning of period | shares 89 Options exercised | shares (10) Options outstanding at ending of period | shares 79 Weighted-Average Exercise Price per Share, Options outstanding at beginning of period | $ / shares $ 76.69 Weighted-Average Exercise Price per Share, Options exercised | $ / shares 26.32 Weighted-Average Exercise Price per Share, Options outstanding at end of period | $ / shares $ 83.05 X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 1D -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-1DReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher 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https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(v) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionNumber of options outstanding, including both vested and non-vested options. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionWeighted average price at which grantees can acquire the shares reserved for issuance under the stock option plan. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionWeighted average price at which option holders acquired shares when converting their stock options into shares. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsExercisesInPeriodWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionNumber of share options (or share units) exercised during the current period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - Details Name: aeis_OptionTypeAxis=aeis_TimeBasedMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 88 R76.htm IDEA: XBRL DOCUMENT v3.24.3 LONG-TERM DEBT - Debt Obligation (Details) - USD ($) $ in Thousands Sep. 30, 2024 Dec. 31, 2023 Debt: Â Â Gross long-term debt, including current maturities $ 575,000 $ 930,000 Less: debt discount (11,000) (14,321) Net long-term debt, including current maturities 564,000 915,679 Less: current maturities Â (20,000) Net long-term debt 564,000 895,679 Term Loan Facility Â Â Debt: Â Â Gross long-term debt, including current maturities Â 355,000 Convertible Notes due 2028 Â Â Debt: Â Â Gross long-term debt, including current maturities 575,000 $ 575,000 Net long-term debt, including current maturities $ 564,000 Â X - DefinitionAmount, before unamortized (discount) premium and debt issuance costs, of long-term debt. Includes, but is not limited to, notes payable, bonds payable, commercial loans, mortgage loans, convertible debt, subordinated debt and other types of debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-4 + Details Name: us-gaap_DebtInstrumentCarryingAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after accumulated amortization, of debt discount. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-1AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1D + Details Name: us-gaap_DebtInstrumentUnamortizedDiscount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt. Excludes lease obligation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(16)(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-4 + Details Name: us-gaap_LongTermDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_LongTermDebtAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as current. Excludes lease obligation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LongTermDebtCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as noncurrent. Excludes lease obligation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LongTermDebtNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_CreditFacilityAxis=aeis_TermLoanFacilityMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=aeis_ConvertibleSeniorNotesDueTwoThousandTwentyEightMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 89 R77.htm IDEA: XBRL DOCUMENT v3.24.3 LONG-TERM DEBT - Interest Expense (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 LONG-TERM DEBT Â Â Â Â Interest expense $ 5,736 $ 3,528 $ 18,403 $ 8,818 Amortization of debt issuance costs 794 245 2,469 509 Capitalized interest (157) Â (428) Â Total interest expense related to debt $ 6,373 $ 3,773 $ 20,444 $ 9,327 X - DefinitionAmount of interest capitalized during the period. + ReferencesNo definition available. + Details Name: aeis_InterestCostsCapitalized1 Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of amortization expense attributable to debt issuance costs. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-3 + Details Name: us-gaap_AmortizationOfFinancingCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionInterest and debt related expenses associated with nonoperating financing activities of the entity. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_InterestAndDebtExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of the cost of borrowed funds accounted for as interest expense for debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69FReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-6 + Details Name: us-gaap_InterestExpenseDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration XML 90 R78.htm IDEA: XBRL DOCUMENT v3.24.3 LONG-TERM DEBT - Credit Facility (Details) - Revolving Credit Facility - USD ($) $ in Thousands Sep. 30, 2024 Sep. 09, 2024 Sep. 08, 2024 Dec. 31, 2023 Line of Credit Facility [Line Items] Â Â Â Â Borrowing capacity Â $ 600,000 $ 200,000 Â Balance $ 0 Â Â Â Available capacity 600,000 Â Â $ 200,000 Increase in borrowing capacity $ 250,000 Â Â Â Outstanding principal balance Â $ 345,000 Â Â X - DefinitionThe contingent increase above the maximum borrowing capacity under the credit facility, if any one or more of the existing banks or new banks agree to provide such increased commitment amount. + ReferencesNo definition available. + Details Name: aeis_LineOfCreditFacilityContingentIncreaseAdditionalBorrowingCapacity Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of outstanding principal balance under the credit facility. + ReferencesNo definition available. + Details Name: aeis_LineOfCreditFacilityOutstandingPrincipalBalance Namespace Prefix: aeis_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe carrying value as of the balance sheet date of the current and noncurrent portions of long-term obligations drawn from a line of credit, which is a bank's commitment to make loans up to a specific amount. Examples of items that might be included in the application of this element may consist of letters of credit, standby letters of credit, and revolving credit arrangements, under which borrowings can be made up to a maximum amount as of any point in time conditional on satisfaction of specified terms before, as of and after the date of drawdowns on the line. Includes short-term obligations that would normally be classified as current liabilities but for which (a) postbalance sheet date issuance of a long term obligation to refinance the short term obligation on a long term basis, or (b) the enterprise has entered into a financing agreement that clearly permits the enterprise to refinance the short-term obligation on a long term basis and the following conditions are met (1) the agreement does not expire within 1 year and is not cancelable by the lender except for violation of an objectively determinable provision, (2) no violation exists at the BS date, and (3) the lender has entered into the financing agreement is expected to be financially capable of honoring the agreement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(16)(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap_LineOfCredit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap_LineOfCreditFacilityLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionMaximum borrowing capacity under the credit facility without consideration of any current restrictions on the amount that could be borrowed or the amounts currently outstanding under the facility. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LineOfCreditFacilityMaximumBorrowingCapacity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of borrowing capacity currently available under the credit facility (current borrowing capacity less the amount of borrowings outstanding). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LineOfCreditFacilityRemainingBorrowingCapacity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_CreditFacilityAxis=us-gaap_RevolvingCreditFacilityMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 91 R79.htm IDEA: XBRL DOCUMENT v3.24.3 LONG-TERM DEBT - Convertible Senior Notes (Details) - USD ($) $ / shares in Units, $ in Thousands Sep. 12, 2023 Sep. 30, 2024 Dec. 31, 2023 Sep. 13, 2023 Debt Instrument [Line Items] Â Â Â Â Long-term Debt Â $ 564,000 $ 915,679 Â 2.50% Convertible Notes Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Principal amount $ 575,000 Â Â Â Interest rate 2.50% Â Â Â Long-term Debt Â 564,000 Â Â Redemption price of the principal amount to be redeemed 100.00% Â Â Â Conversion price $ 137.46 Â Â $ 179.76 Debt fair value Â $ 598,200 Â Â X - DefinitionThe price per share of the conversion feature embedded in the debt instrument. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-5 + Details Name: us-gaap_DebtInstrumentConvertibleConversionPrice1 Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionFace (par) amount of debt instrument at time of issuance. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2 + Details Name: us-gaap_DebtInstrumentFaceAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionFair value portion of debt instrument payable, including, but not limited to, notes payable and loans payable. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2E -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2EReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-10 + Details Name: us-gaap_DebtInstrumentFairValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionContractual interest rate for funds borrowed, under the debt agreement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B + Details Name: us-gaap_DebtInstrumentInterestRateStatedPercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name

Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69FReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 26: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 27: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1 + Details Name: us-gaap_DebtInstrumentLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPercentage of principal amount of debt redeemed. + ReferencesNo definition available. + Details Name: us-gaap_DebtInstrumentRedemptionPricePercentageOfPrincipalAmountRedeemed Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionAmount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt. Excludes lease obligation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(16)(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-4 + Details Name: us-gaap_LongTermDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_DebtInstrumentAxis=aeis_ConvertibleSeniorNotesDueTwoThousandAndTwentyEightMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 92 R80.htm IDEA: XBRL DOCUMENT v3.24.3 SUPPLEMENTAL CASH FLOW INFORMATION AND OTHER DISCLOSURES (Details) - USD ($) $ in Thousands 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Non-cash investing activities: Â Â Capital expenditures in accounts payable and other accrued expenses $ 7,200 $ 7,699 Cash paid for: Â Â Interest expense 17,975 8,060 Income taxes 29,041 45,040 Cash received from income taxes 1,627 828 Depreciation expense $ 31,305 $ 28,578 X - DefinitionInterest And Income Taxes Paid Abstract [Abstract] + ReferencesNo definition available. + Details Name: aeis_InterestAndIncomeTaxesPaidAbstractAbstract Namespace Prefix: aeis_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionFuture cash outflow to pay for purchases of fixed assets that have occurred. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-4Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-3Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-5 + Details Name: us-gaap_CapitalExpendituresIncurredButNotYetPaid Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_CashFlowNoncashInvestingAndFinancingActivitiesDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe amount of expense recognized in the current period that reflects the allocation of the cost of tangible assets over the assets' useful lives. Includes production and non-production related depreciation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_Depreciation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, before refund, of cash paid to foreign, federal, state, and local jurisdictions as income tax. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 23 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-23Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-22Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2 + Details Name: us-gaap_IncomeTaxesPaid Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash paid for interest, excluding capitalized interest, classified as operating activity. Includes, but is not limited to, payment to settle zero-coupon bond for accreted interest of debt discount and debt instrument with insignificant coupon interest rate in relation to effective interest rate of borrowing attributable to accreted interest of debt discount. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-17Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2 + Details Name: us-gaap_InterestPaidNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of income tax refund received from tax jurisdiction. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 23 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-23Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-22Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2 + Details Name: us-gaap_ProceedsFromIncomeTaxRefunds Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration EXCEL 93 Financial_Report.xlsx IDEA: XBRL DOCUMENT begin 644 Financial_Report.xlsx

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~~***0pt;">Advanced Energy Industries, Inc., a Delaware corporation, and its consolidated subsidiaries (“we,” “us,” “our,” “Advanced Energy,” or the “Company”) provides highly engineered, critical, precision power conversion, measurement, and control solutions to our global customers. We design, manufacture, sell and support precision power products that transform, refine, and modify the raw electrical power coming from either the utility or the building facility and convert it into various types of highly controllable, usable power that is predictable, repeatable, and customizable to meet the necessary requirements for powering a wide range of complex equipment. Many of our products enable customers to reduce or optimize their energy consumption through increased power conversion efficiency, power density, power coupling, and process control across a wide range of applications.</p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;text-indent:36pt;margin:0pt 0pt 10pt 0pt;">In management's opinion, the accompanying unaudited consolidated financial statements contain all adjustments, consisting of normal, recurring adjustments, necessary to present fairly Advanced Energy’s financial position as of September 30, 2024, and the results of our operations and cash flows for the three and nine months ended September 30, 2024 and 2023.</p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;text-indent:36pt;margin:0pt 0pt 10pt 0pt;">The unaudited consolidated financial statements included herein have been prepared pursuant to the rules and regulations of the U.S. Securities and Exchange Commission (“SEC”). Certain information and footnote disclosures normally included in financial statements prepared in accordance with accounting principles generally accepted in the United States of America (“U.S. GAAP”) have been omitted pursuant to such rules and regulations. These unaudited consolidated financial statements should be read in conjunction with the audited consolidated financial statements and notes thereto contained in our Annual Report on Form 10-K for the year ended December 31, 2023 and other financial information filed with the SEC.</p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;font-weight:bold;margin:0pt 0pt 10pt 0pt;">Use of Estimates in the Preparation of the Consolidated Financial Statements </p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;font-weight:bold;text-indent:36pt;margin:0pt;">The preparation of our consolidated financial statements in conformity with U.S. GAAP requires us to make estimates, assumptions, and judgments that affect the reported amounts of assets and liabilities, the disclosure of contingent liabilities at the date of the financial statements, and the reported amounts of revenue and expenses during the reporting period. The significant estimates, assumptions, and judgments include, but are not limited to, excess and obsolete inventory, income taxes and other provisions, and acquisitions and asset valuations.</p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;margin:0pt;"></p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;font-weight:bold;margin:0pt 0pt 10pt 0pt;">Significant Accounting Policies</p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;text-indent:36pt;margin:0pt 0pt 10pt 0pt;">Our accounting policies are described in <i style="font-style:italic;">Note 1. Summary of Operations and Significant Accounting Policies and Estimates</i> to our audited consolidated financial statements in our Annual Report on Form 10-K for the year ended December 31, 2023. </p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;margin:0pt;"></p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;font-weight:bold;margin:0pt 0pt 10pt 0pt;">New Accounting Standards</p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;text-indent:36pt;margin:0pt 0pt 10pt 0pt;">From time to time, the Financial Accounting Standards Board (“FASB”) or other standards setting bodies issue new accounting pronouncements. Updates to the FASB Accounting Standards Codification (“ASC”) are communicated through issuance of an Accounting Standards Update (“ASU”). Unless otherwise discussed, we believe that the impact of recently issued guidance, whether adopted or to be adopted in the future, will not have a material impact on the consolidated financial statements upon adoption.</p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;font-style:italic;margin:0pt 0pt 10pt 0pt;"><b style="font-style:normal;font-weight:bold;">New Accounting Standards Issued But Not Yet Adopted</p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;text-indent:36pt;margin:0pt 0pt 10pt 0pt;">In November 2023, the FASB issued ASU 2023-07 “Segment Reporting (Topic 280) Improvements to Reportable Segment Disclosures.” ASU 2023-07 expands disclosure requirements to require additional information about significant segment expenses. In addition, the ASU enhances interim disclosures, clarifies circumstances in which an entity can disclose multiple segment measures of profit or loss, and provides new disclosures requirements for entities with a single reportable segment. This guidance will be effective for us in our Annual Report on Form 10-K for the year ending December 31, 2024. We do not expect the above guidance to materially impact our consolidated financial statements.</p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;text-indent:36pt;margin:0pt 0pt 10pt 0pt;">In December 2023, the FASB issued ASU 2023-09 “Improvements to Income Tax Disclosures.” ASU 2023-09 requires disaggregated information about a reporting entity’s effective tax rate reconciliation as well as additional disclosure on income taxes paid. This guidance will be effective for us on January 1, 2025. We do not expect the above guidance to materially impact our consolidated financial statements.</p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;text-indent:36pt;margin:0pt 0pt 10pt 0pt;">In March 2024, the SEC issued climate-related disclosure rules. These rules do not change accounting treatment, but they significantly expand the climate-related information companies are required to disclose. Several petitions were filed challenging these climate-related disclosure rules and, in April 2024, the SEC voluntarily stayed the rules, pending completion of judicial review. We do not expect the above disclosure requirement to materially impact our consolidated financial statements. We are evaluating the disclosure requirements and changes to our business processes, systems, and controls to support the additional disclosures.</p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;text-align:justify;text-indent:36pt;margin:0pt 0pt 10pt 0pt;"></p>***~~

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size:10pt;margin:0pt 0pt 0.05pt 0pt;"><span style="visibility:hidden;"></span></p></td></tr></table><p style="font-family:'Times New
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bottom:10pt;visibility:hidden;"></span>
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S?=-1?/<@&@T$M"F>Q9"Z72*]N6\0(2+"]X M"DS/S+A(L-)=,;=E*@!/,U!";==QVG:"";/";C;V(,(N7RI*&#P())=)@L5K M'RA?]ZR6]38P(O.%,@-
VV$WQ',:@GM('H7MVR3(E"3!).$,"9CWKNG45=8Q] M9O"3P%INM)'9R83S9].YG?8LQS@$%&)E&+!^K& E!HB[<;?@M,JES3 S?8; M^TVV=
[V7"98PX/07F:I%S[JTT!1F>$G5B*^_0;&?P/#%G,KL'ZT+6\="\5(J MGA1@[4%"6/[$+X4.&X"6OP?@%@#W4(!7 +Q# 7X!\ \%! 4@V[J=[ST3;H@5
M#KN"KY$PUIK--#+U,[36BS!S3L9*Z%FB<2K\?O_CZ_EC-+I#PZC_B,[10,"4 M*'2#8T*)>D6G0U"84'FFYT:PXG1%V'S'ZAP]C8?H].0,G2#"T.."+R5F4]FU
ME7;2+&7'A4/]W"%WCT-C2"^0YWQ"KN/Z%?#! 7#G\U[X\!#XY5YX5 \?0JR= M;V5P;QMNZ\"4T7'+Z+@9G[JYDBF. MH6?IW")!K,
*/WYHM9TO58(W239LDBQJB&PK-%X9&J^./>QSH1'F+L18+Z*C M4A6(6HYC Y&3M3,RD_]78=LQOZZ]VI1XU\RM,
(L:_M30JU=,>FT\HGF85X(0K74]FS87^I@!A#/3\ MC'/UUC%%9?F5$OX#4$L#!!0 ( /*!7EF#&E['M0, *42 9 >&PO M=V]R:W-H965TQ M!Y#H\BQ&+
"J#JS93S'4G7YSA4%!YP:49ZY@><-W1P3 MZLRGYM@]GT_906:$PCU'XI#GF'^Y@8R=9H[O?#OP0'9[J0^X\VF!=[ "^53<
M<]5S:TI*RIJQ3[ISF\X<3T<$&6RD M1F#U=X0%9)DFJ3C^K:!./:<6-MO?Z+^:Q:O%K+& !AF7"_*)3-=9ST.8@),LKL8H@)[3\QY\K(QH"/WI%$%2"X%Q!
M6 G"=3SDZ(Z]&*IAO&?:-6?A&J+Y25Y.HL M43HYO_OCXV]7C\G#![1,;A[1%5HP>@0NR3H#M )*&$B)$BG>JX.J_;AG!X%I*J:N5&'JR=Q-%=)-&5+P
M2D@K* ;(#]ZCP O"#OGB#'GH&7G4(5_VRY>P47+_U=F3VS:^W+8Q(^'HTE[6&(IM)9Q46U\-]!M]25;=!2,2Q MA"YW2[D?
-.SU!EX0/W.W=Y9+W;4)2RS!6NZ.:W?'__/!V*N_M(:4L/B_'HPV MYTPLP5KV3FI[)[WV/D *>6&V5P4G&T!LB^0>=*=5-9!D: UJ%Y<"Y)!VY:&<
MR/<:WOG/+O'>6"Z]Q&W"$DNP5@Y\[_M^R>O-0OGZ(NHL=.YO2L2X:6\X&D3# M9Q[W3W6IR59I2=<:1I/!Z/L:V@8V-
IQ^KX'FO6.+"4='G!VZ_>LE7%HG*EKK MD3D9!R\*A=59$UNTTF6WLHOTS-OP)02P,$% @ \H%>63R+>8%" M P :0D !D
!X;"]W;W)K&ULK59M;]HP$/XK M5E9-G;0V(0%".HA$@:I(+2#2KI_=Y"!6$SNS#;3_?K8#&864[D._@%_N'C_/
MW<7G[H;Q%Y$"2/2:9U3TK%3*XLJV19Q"CL4E*X"JG07C.99JRI>V*#C@Q#CE MF>TZ3MO.,:%6V#5K,QYVV4IFA,*,(['*<\S?KB%CFY[5L'8+
<[),I5ZPPVZ! MEQ"!?"QF7,WL"B4A.5!!&$4<%CVKW[@:!-K>&/PFL!%[8Z25/#/VHB?CI&97+.-K>PU=/2>#'+A/E%FZVM8Z%X)23+M\Z*04YH^8]?
MW'8IS-[D;WH\E#_PX-^M$MNKF;/J'QY&8ZO^\_C*<3U)\,T?3A=C1'PW$TN)M& MC_-1A,Z'(#')Q
]T@1ZC(3H_^X'.$*'H(64K@6DBNK94!/4Q=KPE/H+OQ(%CJ%GJ4]8 %^# M%7[_UF@[O^K$?A'8.^G-2GKS%'HXP 61.$/PJNZ?A,B5.D)7"XYCMJ)2H *_
MX><,D*HBH/;9M#]86U#GUU?W7M];[N&J-V$%1&[_2T M*CVMDZDJ^".R=U'8EM7TR=6,J0:'*72+JQ)8(K;T0 M-_S
;QTDXMBJX[2=^D3X%3O_$W8QRP%)_%I?(?[1F6[@-!L'S(ZMFBVG^0&U M3D6M\TG-JQKA$(-J5*I..,M5Q9]FVSF.8]OU#\@>&W7<3CW5H*
(:G*0Z!%4X M,<&FM9[(,R=U$'U"]KL*_4$L#!!0 ( /*!7EFW4DFD2P, ,H4 - M>&POS7S]<.X:.^B/5AI0MJ8]_C<^ZQ?4/<#BJ]XO1^3JD.E@47U3"<
M:UU^C*)J.J<%J5JRI,(@N50%T::K9E%5*DJR"D@%C[KM=A(5A(EP-!"+XK;0 M53"5"Z&'8:\)!>
[V)1N&G>0J#)S<6&9T&#Y>O/^YD/KF7>#N9Q_.SMJ/ES?[ M\0L+7(:15_3Z"-%6NXT+ XB))\>)']+&I'N[TG;XN1%RQ'.,UO?06NV&UT+S
MI5[B5DKH(.1>^ZAU.+ ,5CBJRV0TR*785$L$LXEBP,I) MP?C*A;L0F$HN5:!-F1HK'8A4OQW<<3VHX%JG8$(JF]ME<+\G]? ]8-T#@XSS MQF W=
('1H"1:4R5N3<<.ML%G4%"W'U:E<3A39-7I7H<;@KV9)!.I,JJ:-)UP M'1H-.,W!CF*S.=RU+", M9:%:62,S*0@UL.:43>,[)1R?@^/]X]\1WN9;^VI MW5'1-
(VANNED7 ?TM]6<]K;LU8MT@Y(]2?UY8:8C;!]JA=XIFK.E[2_SQ@"F MWL'525GRU2?.9J*@;O)')QP-R)H7S*5BOTTV*)6I"5 5!D]4:3;=COQ2I'R@
M2[TNIV6.>^Z^0<__=IUG5%!%^+9I4_NGO,HO=ASW7LNR_5;9-^SU6+^S3]WD M]5LPF9R^R3@]?8_UR>G43?;?@LFWL-
V]5_MF/V@RJD]"6\>MG<-6$PW@4#L, MO\/QF6^2!I,%XYJ)NC=G64;%LS.7D==D8OY0V]$WXS.:DP77#PTX##?M;S1C MBR)M1MW!0M2C-
NVO,+U.TIRH32XF,KJDV;CNJMG$-@/3,%GK"PC[R*V]_C& M<9@? 0S+@SG .(Z%Y?F?YM-'Y^,PS%O?
B_113A_E.)8/&=L/EL?/2PVH'\_CQ04WY.',.N8MZP)QA'TA1#H!;]-9HD MR.HD\/'O#_:4Q'&:^A' _[B&$/@:<01S %XP) XMN_!O?=1M'Y/19O_7H[^ M %!+
P04 " #R@5Y9EXJ[', 3 @ "P %]R96QS+RYR96QSG9*Y M;L,P#$!_Q=">, ?0(8@S9?$6!/D!5J(/V!(%BD6=OZ_:I7&0"QEY/3P2W!YI
M0.TXI+:+J1C]$%)I6M6X 4BV)8]ISI%"KM0L'C6'TD!$VV-#L%HL/D N&6:W MO606IW.D5XA-
/E_G;@2=&A(E@6FD7)TZ(=I7\=Q_:0T^FO8R*T>EOH^7%H5 J.W&,EC'%B MM/XU@LD/['X 4$L#!!0 ( /*!7EE ="BY6 8 )@T / >&PO=V]R
M:V)O;VLN>&ULQ9M;<]HX%(#_BH:7]K)7: MOAT.F^6:;UCS6[WEE3ZRJN6&*;TI'X;-5G)6-&O.U:8<6I>7WG##1#5X_^[I M6G,Y-
#=JQ9=*U)7>V>ZX$_QS\_-XNTD>12/N12G4U^M!]W_)!V0C*K$1WWAQ M/;@6+W5D+F;/[IMNCV'W*-,CU MP+O4%UP)V:CNC.[Z3#,^MH!5LQ;;9D
JMN'7@Z=3"*L*0BNE M@T2B:G\I?6[[2_571\7^5RN-:\10OA7Z@(R*#AP/)%T TCTGI&U M>@"D=TY(QX#T 4C_G)"N 7D%0%
[A0HYI%J;1/(^2F"03A+]_2*9CFF:_$*I;,/^KNZUHD,91;&)"XA@AFV,21"FY"Z8+ M2F8TR!8IG=$X[]UFD#)&R,
[0T8ON@CRZHV02Q4$<1L&41'&6IXN6T\2$I#%" MMD80ALE"AXVD-*0:^&9*7Y.8]O@@7XR0A1'%NK?F21K17LM"=A@AZR&*\R"^ MC72D2)!E--
\_L]*8EF<]UKGM]_MD"!&R(;X&*1I$.?]YK4@/UC(?ICJATF?!M*#A:R'[F%\H85.QT2+8D[C+&AU M:O*!-0:R+#33+,J[)V_7#<)$-
V9\2_7SKA]$2!46LBJF27Q[D=-T1L;TQKSU M+<@0%K(ALL5\/NVDIU AG&0#?,C2^S:N.QW&L@I#KI3]F 7)!,/E="?
8I4BX:Y1]89+,\EQ(*^X9RUGS,DY%_*.>\Y)E$^>B0EYQT7V#HSIFYB0=UQD M[QPK#K\KR,0$9^"1O0/.^?37"4 6#W*/ASY7#V&:[O$@]WC([H%'
M+GJ-#KG'0W8/C-EK=,@]'K)[8,Q>HT/N\=!K'@C33#@\Z4;5=#6^;N>2&B)T*2[K8K]" +><@6^H$Y8VHGA1+\&*8/6<@_R_FF
M#UG(1[;0LT'K"S+F]XHD]Z5X:$\V,2$+^<@6>H$958I+KGLZ_;+MK3KWP77( MR!9Z@1E*7@A%)FS9OCUB8D(6\K$M]
*SKA[;5U0T!LEZ/1VRD(\]#@?.6)AI M\15DH:O.0L/NY.;]NX*O1,6+6']%H_7@M[_"U!+ P04 " #R@5Y9M,4*KF@" !'+P &@ 'AL M+U]R96QS+W=O=@?
NF'Q M<3J>AW6U'\?N1UT/FWTY-<-#VY7SY%GVN[IK-N_-KM2R7'K=W\^H MGI_N9RY>/[OR/Q/;[?:P*3_;S>]3.8__&%S_:?OW85_*6"U>FWY7QG55?
QQO MNX?ZNDD/E\G5XN5M7?4O;ZFJYPX2")+Y@S($Y?F#%()T_B"#()L_R"'(YP\* M"(KY@U80M)H_Z!&'"N&?7.!'KG MRF4#OC'IG
KTSZIT)],ZH=R;06U%O)=!;46\E MT%M1;R706U%O)=!;)R^["?16U%L)]%;46PGT5M1;"?16U%L)]%;46PGT-M3; M"/0VU-L(]#;4VPCT-M3;"/0VU-
L(]+;)QTH"O0WU-@*]#?4V KT-]38"O0WU M-@*]'?5V KT=]78"O1WU=@*]'?5V KT=]78"O1WU=@*]??*S"8'>CGH[@=Z.
M>CN!WHYZ.X'>@7H'@=Z!>@>!WH%Z!X'>@7H'@=Z!>@>!WH%Z!X'>@7H'@=XQ M^5F00.] O8- [T"]@T#O%>J]^DZ]A_'S6(9;S]
<:K_^=5(^7<\OM\M?EUTZ\ M7ZRN.-?W%!7J;)%C>M_&%$V,-L9%O,")KFE49/8 ML@U3WGZ<%) 8,16H2',VC5K;]]SX2M^JE[^> J7%?
NC'M*ZV.8=OC*5F2X-+ MM0\TEI6-CX/+Y6N\9\$U.W=/3*Q6AC5^S#3F99YJ5%>7-[1Q#WU>?-^7GU/G MQW45J4_5XOJP<XIT>_6;3-
=3ZYF$H1^H4(KDV M;8GRT->'HF?'DW.Y83I\\I/SYS+' LO.V^A#*A.+]/FXEY%,IY>A%**8N^.O M^)I82I_\?C1-NZ7V@]GE>G_[N)OGD=C\./V.W\[XM?
XG^Q @?4B0/A1('QJD M#P/2AP7IXQRDCPN0/O@*I1$443D*J1S%5(Z"*D=1E:.PRE%&UL4$L! A0#% @ \H%> M6=M=ZM#O *P( !$ ( !KP
&1O8U!R;W!S+V-O&UL4$L! A0#% @ \H%>69EP% M D'P & @($." >&PO=V]R:W-H965T&UL4$L! A0#% @ \H%>613#B4[Y!@ AQP !@ ("! M, X
'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ M\H%>6<]>E4JL P O T !@ ("!)B 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ \H%>
M6>^C$5=)!0 T P !D ("!,E( 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ \H%>60VMK-T/!0 V0L M !D ("!&64 'AL+W=O&PO=V]R:W-
H965T&UL4$L! A0#% @ \H%>65%J6SNF! ( X !D M ("!;7 'AL+W=O&PO=V]R:W-H965T M&UL4$L! A0# M% @ \H%>6&PO=V]R:W-H965T&UL4$L!
A0#% @ \H%>6>8T M8HFH!P MA4 !D ("!(Y( 'AL+W=O" &0 M @($"F@ >&PO=V]R:W-H965TA[@,A0( +\' 9 " @4>= !X;"]W;W)K&UL4$L! A0#% @
\H%>60!ZCZM# @ B@8 !D M ("! Z 'AL+W=O&PO M=V]R:W-H965T&UL4$L! A0#% @ \H%>68 _"P](!0 YA, !D ("! M(*T 'AL+W=O&PO=V]R:W-
H965T&UL4$L! A0#% M @ \H%>62:;>Q\J P =@H !D ("!_;P 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ \H%>632^&:\0! J@P !D M ("!S-$
'AL+W=O&PO=V]R M:W-H965T&UL M4$L! A0#% @ \H%>6:[V.YH+ P G@< !D ("!*MX M 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @
M\H%>6>_1P%2V P HQ !D ("!^ND 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ \H%>69,S+-P\ P M, H !D ("!(_T 'AL+W=O&PO=V]R:W-
H965T='!IP< &&UL4$L! A0#% @ \H%>6:/@N:-.!@ +3( !D M ("!% L! 'AL+W=O&PO=V]R:W-H M965T&UL4$L! M A0#% @ \H%>62?W=VML P GPL !D
("!F1D! 'AL M+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ \H%> M65 NH5?D @ S0@ !D ("!H20! 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @
\H%>6:2%4I^U @ #0@ M !D ("!6B\! 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ \H%>65 NNEM$ P * P !D M ("!-3@! 'AL+W=O&PO=V]R:W-
H965T M&UL4$L! A0# M% @ \H%>68BH_5H$!@ T#D !D ("!$$8! 'AL+W=O M&PO=V]R:W-H965T1. M 0!X;"]W;W)K&UL4$L! A0#% @ \H%>65H4
MUB#R @ K D !D ("![5$! 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ \H%>60X,9#)D P ;@L !D M ("!M%P! 'AL+W=O&PO M=V]R:W-
H965T&UL4$L! A0#% @ \H%>69!J(/X. P D0@ !D ("! M[&8! 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% M @ \H%>67QJU^H$ P L0P !D ("!'W$!
'AL+W=O6QE@ $ >&PO=V]R:V)O;VLN>&UL4$L! A0#% @ \H%>6;3%"JYH @ M1R\ !H ( !HX8! 'AL+U]R96QS+W=O62P!9SL; @ #BX !, ( ! M0XD!
%M#;VYT96YT7U1Y<&5S72YX;6Q02P4& %@ 6 ?& CXL! end XML 94 Show.js IDEA: XBRL DOCUMENT // Edgar(tm) Renderer was created by staff of
the U.S. Securities and Exchange Commission. Data and content created by government employees within the scope of their employment are not
subject to domestic copyright protection. 17 U.S.C. 105. var Show={};Show.LastAR=null,Show.showAR=function(a,r,w)
{if(Show.LastAR)Show.hideAR();var e=a;while(e&&e.nodeName!='TABLE')e=e.nextSibling;if(!e||e.nodeName!='TABLE'){var ref=((window)?
w.document:document).getElementById(r);if(ref){e=ref.cloneNode(!0); e.removeAttribute('id');a.parentNode.appendChild(e)}}
if(e)e.style.display='block';Show.LastAR=e};Show.hideAR=function(){Show.LastAR.style.display='none'};Show.toggleNext=function(a){var
e=a;while(e.nodeName!='DIV')e=e.nextSibling;if(!e.style){}else if(!e.style.display){}else{var d,p_;if(e.style.display=='none'){d='block';p='-
'}else{d='none';p='+'} e.style.display=d;if(a.textContent)
{a.textContent=p+a.textContent.substring(1)}else{a.innerText=p+a.innerText.substring(1)}}} XML 95 report.css IDEA: XBRL DOCUMENT /*
Updated 2009-11-04 */ /* v2.2.0.24 */ /* DefRef Styles */ .report table.authRefData{ background-color: #def; border: 2px solid #2F4497; font-size:
1em; position: absolute; } .report table.authRefData a { display: block; font-weight: bold; } .report table.authRefData p { margin-top: 0px; } .report
table.authRefData .hide { background-color: #2F4497; padding: 1px 3px 0px 0px; text-align: right; } .report table.authRefData .hide a:hover {
background-color: #2F4497; } .report table.authRefData .body { height: 150px; overflow: auto; width: 400px; } .report table.authRefData table{
font-size: 1em; } /* Report Styles */ .pl a, .pl a:visited { color: black; text-decoration: none; } /* table */ .report { background-color: white; border:
```

~~2px solid #acf; clear: both; color: black; font: normal 8pt Helvetica, Arial, san-serif; margin-bottom: 2em; } .report hr { border: 1px solid #acf; } /* Top labels */ .report th { background-color: #acf; color: black; font-weight: bold; text-align: center; } .report th.void { background-color: transparent; color: #000000; font: bold 10pt Helvetica, Arial, san-serif; text-align: left; } .report .pl { text-align: left; vertical-align: top; white-space: normal; width: 200px; white-space: normal; /* word-wrap: break-word; */ } .report td.pl a.a { cursor: pointer; display: block; width: 200px; overflow: hidden; } .report td.pl div.a { width: 200px; } .report td.pl a:hover { background-color: #ffc; } /* Header rows... */ .report tr.rh { background-color: #acf; color: black; font-weight: bold; } /* Calendars... */ .report .rc { background-color: #f0f0f0; } /* Even rows... */ .report .re, .report .reu { background-color: #def; } .report .reu td { border-bottom: 1px solid black; } /* Odd rows... */ .report .ro, .report .rou { background-color: white; } .report .rou td { border-bottom: 1px solid black; } .report .rou table td, .report .reu table td { border-bottom: 0px solid black; } /* styles for footnote marker */ .report .fn { white-space: nowrap; } /* styles for numeric types */ .report .num, .report .nump { text-align: right; white-space: nowrap; } .report .nump { padding-left: 2em; } .report .nump { padding: 0px 0.4em 0px 2em; } /* styles for text types */ .report .text { text-align: left; white-space: normal; } .report .text .big { margin-bottom: 1em; width: 17em; } .report .text .more { display: none; } .report .text .note { font-style: italic; font-weight: bold; } .report .text .small { width: 10em; } .report sup { font-style: italic; } .report .outerFootnotes { font-size: 1em; } XML 97 FilingSummary.xml IDEA: XBRL DOCUMENT 3.24.3 html3213131false660false5 falsefalseR1.htm995200090 - Document - Document and Entity InformationSheethttp://www.aei.com/role/DocumentDocumentAndEntityInformationDocument and Entity InformationCover1 falsefalseR2.htm995200100 - Statement - Unaudited Consolidated Balance SheetsSheethttp://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheetsUnaudited Consolidated Balance SheetsStatements2 falsefalseR3.htm995200105 - Statement - Unaudited Consolidated Balance Sheets (Parenthetical)Sheethttp://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheetsParentheticalUnaudited Consolidated Balance Sheets (Parenthetical)Statements3 falsefalseR4.htm995200200 - Statement - Unaudited Consolidated Statements of OperationsSheethttp://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfOperationsUnaudited Consolidated Statements of OperationsStatements4 falsefalseR5.htm995200300 - Statement - Unaudited Consolidated Statements of Comprehensive Income (Loss)Sheethttp://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfComprehensiveIncomeLossUnaudited Consolidated Statements of Comprehensive Income (Loss)Statements5 falsefalseR6.htm995200400 - Statement - Unaudited Consolidated Statements of Stockholders' EquitySheethttp://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfStockholdersEquityUnaudited Consolidated Statements of Stockholders' EquityStatements6 falsefalseR7.htm995200405 - Statement - Unaudited Consolidated Statements of Stockholders' Equity (Parenthetical)Sheethttp://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfStockholdersEquityParentheticalUnaudited Consolidated Statements of Stockholders' Equity (Parenthetical)Statements7 falsefalseR8.htm995200500 - Statement - Unaudited Consolidated Statements of Cash FlowsSheethttp://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfCashFlowsUnaudited Consolidated Statements of Cash FlowsStatements8 falsefalseR9.htm995210101 - Disclosure - DESCRIPTION OF BUSINESS AND BASIS OF PRESENTATIONSheethttp://www.aei.com/role/DisclosureDescriptionOfBusinessAndBasisOfPresentationDESCRIPTION OF BUSINESS AND BASIS OF PRESENTATIONNotes9 falsefalseR10.htm995210201 - 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Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r61"] }, "us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedCurrentAssets": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedCurrentAssets", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureAcquisitionsAssetsAcquiredAndLiabilitiesAssumedDetails"], "lang": { "en-us": { "role": { "label": "Business Combination, Recognized Identifiable Assets Acquired and Liabilities Assumed, Current Assets", "terseLabel": "Current assets and liabilities, net", "documentation": "Amount of assets that are expected to be realized or consumed within one year or the normal operating cycle, if 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Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation." } } }, "auth_ref": ["r29", "r179", "r700"] }, "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsIncludingDisposalGroupAndDiscontinuedOperations": { "xbrltype":~~

~~"monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsIncludingDisposalGroupAndDiscontinuedOperations", "crdr": "debit", "presentation": ["http://www.aci.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Including Disposal Group and Discontinued Operations", "periodEndLabel": "CASH AND CASH EQUIVALENTS, end of period", "periodStartLabel": "CASH AND CASH EQUIVALENTS, beginning of period", "documentation": "Amount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including, but not limited to, disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r29", "r123", "r211"] }, "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "crdr": "debit", "presentation": ["http://www.aci.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Including Exchange Rate Effect", "totalLabel": "NET CHANGE IN CASH AND CASH EQUIVALENTS", "documentation": "Amount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r2", "r123"] }, "us-gaap_CashFlowNoncashInvestingAndFinancingActivitiesDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashFlowNoncashInvestingAndFinancingActivitiesDisclosureAbstract", "presentation": ["http://www.aci.com/role/DisclosureSupplementalCashFlowInformationAndOtherDisclosuresDetails"], "lang": { "en-us": { "role": { "label": "Cash Flow, Noncash Investing and Financing Activities Disclosure [Abstract]", "terseLabel": "Non-cash investing activities:" } } }, "auth_ref": [] }, "us-gaap_CashFlowSupplementalDisclosuresTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashFlowSupplementalDisclosuresTextBlock", "presentation": ["http://www.aci.com/role/DisclosureSupplementalCashFlowInformationAndOtherDisclosures"], "lang": { "en-us": { "role": { "label": "Cash Flow, Supplemental Disclosures [Text Block]", "terseLabel": "SUPPLEMENTAL CASH FLOW INFORMATION AND OTHER DISCLOSURES", "documentation": "The entire disclosure for supplemental cash flow activities, including cash, noncash, and part noncash transactions, for the period. Noncash is defined as information about all investing and financing activities of an enterprise during a period that affect recognized assets or liabilities but that do not result in cash receipts or cash payments in the period. \"Part noncash\" refers to that portion of the transaction not resulting in cash receipts or cash payments in the period." } } }, "auth_ref": ["r119"] }, "us-gaap_CashProvidedByUsedInOperatingActivitiesDiscontinuedOperations": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashProvidedByUsedInOperatingActivitiesDiscontinuedOperations", "crdr": "debit", "presentation": ["http://www.aci.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Cash Provided by (Used in) Operating Activities, Discontinued Operations", "terseLabel": "Net cash from operating activities from discontinued operations", "documentation": "Amount of cash inflow (outflow) of operating activities of discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities." } } }, "auth_ref": ["r81", "r123"] }, "us-gaap_CertificatesOfDepositMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CertificatesOfDepositMember", "presentation": ["http://www.aci.com/role/DisclosureFairValueMeasurementsAssetsAndLiabilitiesMeasuredAtFairValueDetails"], "lang": { "en-us": { "role": { "label": "Certificates of Deposit", "documentation": "Short to medium-term investment available at banks and savings and loan institutions where a customer agrees to lend money to the institution for a certain amount of time and is paid a predetermined rate of interest. Certificates of deposit (CD) are typically Federal Deposit Insurance Corporation (FDIC) insured." } } }, "auth_ref": ["r13", "r768", "r769", "r770", "r773"] }, "ecd_ChangedPeerGroupFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ChangedPeerGroupFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Changed Peer Group, Footnote [Text Block]", "terseLabel": "Changed Peer Group, Footnote" } } }, "auth_ref": ["r824"] }, "ecd_ChngInFrValAsOfVstngDtOfPrrYrEqtyAwrdsVstdInCvrdYrMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ChngInFrValAsOfVstngDtOfPrrYrEqtyAwrdsVstdInCvrdYrMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year [Member]", "terseLabel": "Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year" } } }, "auth_ref": ["r821"] }, "ecd_ChngInFrValOfOutsdngAndUnvstdEqtyAwrdsGrntdInPrrYrsMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ChngInFrValOfOutsdngAndUnvstdEqtyAwrdsGrntdInPrrYrsMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested [Member]", "terseLabel": "Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested" } } }, "auth_ref": ["r819"] }, "dei_CityAreaCode": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CityAreaCode", "presentation": ["http://www.aci.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "City Area Code", "documentation": "Area code of city" } } }, "auth_ref": [] }, "us-gaap_ClassOfWarrantOrRightExercisePriceOfWarrantsOrRights1": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightExercisePriceOfWarrantsOrRights1", "presentation": ["http://www.aci.com/role/DisclosureStockholdersEquityAndEarningsPerShareNarrativeDetails"], "lang": { "en-us": { "role": { "label": "Class of Warrant or Right, Exercise Price of Warrants or Rights", "verboseLabel": "Exercise price", "documentation": "Exercise price per share or per unit of warrants or rights outstanding." } } }, "auth_ref": ["r367"] }, "ecd_CoSelectedMeasureAmt": { "xbrltype": "decimalItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CoSelectedMeasureAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Company Selected Measure Amount", "terseLabel": "Company Selected Measure Amount" } } }, "auth_ref": ["r825"] }, "ecd_CoSelectedMeasureName": { 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losses or, less frequently, gains, arising from (a) possible claims against a company's resources due to future performance under contract terms, and (b) possible losses or likely gains from uncertainties that will ultimately be resolved when one or more future events that are deemed likely to occur do occur or fail to occur." } } }, "auth_ref": ["r92", "r158", "r574", "r625"] }, "us-gaap_CommitmentsAndContingenciesDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommitmentsAndContingenciesDisclosureAbstract", "lang": { "en-us": { "role": { "label": "COMMITMENTS AND CONTINGENCIES" } } }, "auth_ref": [] }, "us-gaap_CommitmentsAndContingenciesDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommitmentsAndContingenciesDisclosureTextBlock", "presentation": ["http://www.aci.com/role/DisclosureCommitmentsAndContingencies"], "lang": { "en-us": { "role": { "label": "Commitments and Contingencies Disclosure [Text Block]", "verboseLabel": "COMMITMENTS AND CONTINGENCIES", "documentation": "The entire disclosure for commitments and contingencies." } } }, "auth_ref": ["r137", "r308", "r309", "r684", "r918", "r926"] }, "us-gaap_CommonStockDividendsPerShareDeclared": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockDividendsPerShareDeclared", "presentation": ["http://www.aci.com/role/StatementUnauditedConsolidatedStatementsOfStockholdersEquityParenthetical"], "lang": { "en-us": { "role": { "label": "Common Stock, Dividends, Per Share, Declared", "terseLabel": "Dividends declared (in dollars per share)", "documentation": "Aggregate dividends declared during the period for each share of common stock outstanding." } } }, "auth_ref": ["r142"] }, "us-gaap_CommonStockMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockMember", "presentation": 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Shares issued include shares outstanding and shares held in the treasury." } } }, "auth_ref": ["r95"] }, "us-gaap_CommonStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockSharesOutstanding", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheetsParenthetical", "http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfStockholdersEquity"], "lang": { "en-us": { "role": { "label": "Common Stock, Shares, Outstanding", "periodEndLabel": "Ending Balance (in shares)", "periodStartLabel": "Beginning Balance (in shares)", "terseLabel": "Common stock, shares outstanding (in shares)", "documentation": "Number of shares of common stock outstanding. Common stock represent the ownership interest in a corporation." } } }, "auth_ref": ["r16", "r95", "r626", "r644", "r1044", "r1045"] }, "us-gaap_CommonStockValueOutstanding": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockValueOutstanding", "crdr": "credit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Common Stock, Value, Outstanding", "terseLabel": "Common stock, $0.001 par value, 70,000 shares authorized; 37,671 and 37,318 issued and outstanding at September 30, 2024 and December 31, 2023, respectively", "documentation": "Value of common shares held by shareholders. Excludes common shares repurchased and held as treasury shares." } } }, "auth_ref": ["r95", "r626"] }, "ecd_CompActuallyPaidVsCoSelectedMeasureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsCoSelectedMeasureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Compensation Actually Paid vs. Company Selected Measure [Text Block]", "terseLabel": "Compensation Actually Paid vs. Company Selected Measure" } } }, "auth_ref": ["r830"] }, "ecd_CompActuallyPaidVsNetIncomeTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsNetIncomeTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Compensation Actually Paid vs. Net Income [Text Block]", "terseLabel": "Compensation Actually Paid vs. Net Income" } } }, "auth_ref": ["r829"] }, "ecd_CompActuallyPaidVsOtherMeasureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsOtherMeasureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Compensation Actually Paid vs. Other Measure [Text Block]", "terseLabel": "Compensation Actually Paid vs. Other Measure" } } }, "auth_ref": ["r831"] }, "ecd_CompActuallyPaidVsTotalShareholderRtnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsTotalShareholderRtnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Compensation Actually Paid vs. Total Shareholder Return [Text Block]", "terseLabel": "Compensation Actually Paid vs. Total Shareholder Return" } } }, "auth_ref": ["r828"] }, "us-gaap_ComprehensiveIncomeNetOfTaxAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ComprehensiveIncomeNetOfTaxAbstract", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfComprehensiveIncomeLoss"], "lang": { "en-us": { "role": { "label": "Comprehensive Income (Loss), Net of Tax, Attributable to Parent [Abstract]", "verboseLabel": "Other comprehensive income (loss), net of income tax" } } }, "auth_ref": [] }, "us-gaap_ComprehensiveIncomeNetOfTaxIncludingPortionAttributableToNoncontrollingInterest": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ComprehensiveIncomeNetOfTaxIncludingPortionAttributableToNoncontrollingInterest", "crdr": "credit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfComprehensiveIncomeLoss"], "lang": { "en-us": { "role": { "label": "Comprehensive Income (Loss), Net of Tax, Including Portion Attributable to Noncontrolling Interest", "totalLabel": "Comprehensive income (loss)", "documentation": "Amount after tax of increase (decrease) in equity from transactions and other events and circumstances from net income and other comprehensive income. Excludes changes in equity resulting from investments by owners and distributions to owners." } } }, "auth_ref": ["r64", "r150", "r195", "r197", "r202", "r569", "r585"] }, "us-gaap_ConcentrationRiskBenchmarkDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskBenchmarkDomain", "presentation": ["http://www.aei.com/role/DisclosureRevenueDetails", "http://www.aei.com/role/DisclosureRevenueSignificantCustomersDetails"], "lang": { "en-us": { "role": { "label": "Concentration Risk Benchmark [Domain]", "documentation": "The denominator in a calculation of a disclosed concentration risk percentage." } } }, "auth_ref": ["r36", "r38", "r72", "r73", "r262", "r683"] }, "us-gaap_ConcentrationRiskByBenchmarkAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskByBenchmarkAxis", "presentation": ["http://www.aei.com/role/DisclosureRevenueDetails", "http://www.aei.com/role/DisclosureRevenueSignificantCustomersDetails"], "lang": { "en-us": { "role": { "label": "Concentration Risk Benchmark [Axis]", "documentation": "Information by benchmark of concentration risk." } } }, "auth_ref": ["r36", "r38", "r72", "r73", "r262", "r604", "r683"] }, "us-gaap_ConcentrationRiskByTypeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskByTypeAxis", "presentation": ["http://www.aei.com/role/DisclosureRevenueDetails", "http://www.aei.com/role/DisclosureRevenueSignificantCustomersDetails"], "lang": { "en-us": { "role": { "label": "Concentration Risk Type [Axis]", "documentation": "Information by type of concentration risk, for example, but not limited to, asset, liability, net assets, geographic, customer, employees, supplier, lender." } } }, "auth_ref": ["r36", "r38", "r72", "r73", "r262", "r683", "r867"] }, "us-gaap_ConcentrationRiskPercentage1": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskPercentage1", "presentation": ["http://www.aei.com/role/DisclosureRevenueDetails", "http://www.aei.com/role/DisclosureRevenueSignificantCustomersDetails"], "lang": { "en-us": { "role": { "label": "Concentration Risk, Percentage", "terseLabel": "Significant concentration risk", "verboseLabel": "Revenue (as a percent)", "documentation": "For an entity that discloses a concentration risk in relation to quantitative amount, which serves as the \"benchmark\" (or denominator) in the equation, this concept represents the concentration percentage derived from the division." } } }, "auth_ref": ["r36", "r38", "r72", "r73", "r262"] }, "us-gaap_ConcentrationRiskTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskTypeDomain", "presentation": ["http://www.aei.com/role/DisclosureRevenueDetails", "http://www.aei.com/role/DisclosureRevenueSignificantCustomersDetails"], "lang": { "en-us": { "role": { "label": "Concentration Risk Type [Domain]", "documentation": "For an entity that discloses a concentration risk as a percentage of some financial balance or benchmark, identifies the type (for example, asset, liability, net assets, geographic, customer, employees, supplier, lender) of the concentration." } } }, "auth_ref": ["r36", "r38", "r72", "r73", "r262", "r683"] }, "aeis_ConvertibleSeniorNotesDueTwoThousandTwentyEightMember": { "xbrltype": "domainItemType", "nsuri": "http://www.aei.com/20240930", "localname": "ConvertibleSeniorNotesDueTwoThousandTwentyEightMember", "presentation": ["http://www.aei.com/role/DisclosureLongTermDebtConvertibleSeniorNotesDetails", "http://www.aei.com/role/DisclosureLongTermDebtDebtObligationDetails", "http://www.aei.com/role/DisclosureStockholdersEquityAndEarningsPerShareNarrativeDetails"], "lang": { "en-us": { "role": { "documentation": "Represents convertible senior notes due 2028.", "label": "2.50% Convertible Notes", "terseLabel": "Convertible Notes due 2028" } } }, "auth_ref": [] }, "us-gaap_CostOfGoodsAndServicesSold": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CostOfGoodsAndServicesSold", "crdr": "debit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Cost of Goods and Services Sold", "verboseLabel": "Cost of revenue", "documentation": "The aggregate costs related to goods produced and sold and services rendered by an entity during the reporting period. This excludes costs incurred during the reporting period related to financial services rendered and other revenue generating activities." } } }, "auth_ref": ["r112", "r113", "r533"] }, "dei_CoverAbstract": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CoverAbstract", "lang": { "en-us": { "role": { "label": "Document and Entity Information", "documentation": "Cover page." } } }, "auth_ref": [] }, "us-gaap_CreditFacilityAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CreditFacilityAxis", "presentation": ["http://www.aei.com/role/DisclosureLongTermDebtCreditFacilityDetails", "http://www.aei.com/role/DisclosureLongTermDebtDebtObligationDetails"], "lang": { "en-us": { "role": { "label": "Credit Facility [Axis]", "documentation": "Information by type of credit facility. Credit facilities provide capital to borrowers without the need to structure a loan for each borrowing." } } }, "auth_ref": ["r326", "r933"] }, "us-gaap_CreditFacilityDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CreditFacilityDomain", "presentation": ["http://www.aei.com/role/DisclosureLongTermDebtCreditFacilityDetails", "http://www.aei.com/role/DisclosureLongTermDebtDebtObligationDetails"], "lang": { "en-us": { "role": { "label": "Credit Facility [Domain]", "documentation": "Type of credit facility. Credit facilities provide capital to borrowers without the need to structure a loan for each borrowing." } } }, "auth_ref": ["r326", "r933", "r934"] }, "dei_CurrentFiscalYearEndDate": { "xbrltype": "gMonthDayItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CurrentFiscalYearEndDate", "presentation": ["http://www.aei.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Current Fiscal Year End Date", "terseLabel": "Current Fiscal Year End Date", "documentation": "End date of current fiscal year in the format --MM-DD." } } }, "auth_ref": [] }, "us-gaap_CustomerConcentrationRiskMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CustomerConcentrationRiskMember", "presentation": ["http://www.aei.com/role/DisclosureRevenueSignificantCustomersDetails"], "lang": { "en-us": { "role": { "label": "Customer Concentration Risk [Member]", "terseLabel": "Customer Concentration Risk", "documentation": "Reflects the percentage that revenues in the period from one or more significant customers is to net revenues, as defined by the entity, such as total net revenues, product line revenues, segment revenues. The risk is the materially adverse effects of loss of a significant customer." } } }, "auth_ref": ["r130", "r262"] }, "aeis_CustomerDepositsAndDeferredRevenueCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://www.aei.com/20240930", "localname": "CustomerDepositsAndDeferredRevenueCurrent", "crdr": "credit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "documentation": "The current portion, due within one year or one operating cycle, if longer, of aggregate prepayments received from customers for goods or services to be provided in the future, as well as the amount of deferred revenue as of balance sheet date. Deferred revenue represents collections of cash or other assets related~~

to a revenue producing activity for which revenue has not yet been recognized. Generally, an entity records deferred revenue when it receives consideration from a customer before achieving certain criteria that must be met for revenue to be recognized in conformity with GAAP.", "label": "Customer Deposits And Deferred Revenue Current", "terseLabel": "Customer deposits and other" } } }, "auth_ref": [] }, "us-gaap_CustomerRelationshipsMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CustomerRelationshipsMember", "presentation": ["http://www.aci.com/role/DisclosureIntangibleAssetsAndGoodwillDetails"], "lang": { "en-us": { "role": { "label": "Customer Relationships [Member]", "verboseLabel": "Customer relationships", "documentation": "Customer relationship that exists between an entity and its customer, for example, but not limited to, tenant relationships." } } }, "auth_ref": ["r62", "r908", "r909", "r910", "r911", "r912", "r914", "r916", "r917"] }, "aeis_DataCenterComputingMember": { "xbrltype": "domainItemType", "nsuri": "http://www.aci.com/20240930", "localname": "DataCenterComputingMember", "presentation": ["http://www.aci.com/role/DisclosureRevenueDetails"], "lang": { "en-us": { "role": { "documentation": "Represents data center computing.", "label": "Data Center Computing" } } }, "auth_ref": [] }, "us-gaap_DebtDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtDisclosureAbstract", "lang": { "en-us": { "role": { "label": "LONG-TERM DEBT" } } }, "auth_ref": [] }, "us-gaap_DebtDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtDisclosureTextBlock", "presentation": ["http://www.aci.com/role/DisclosureLongTermDebt"], "lang": { "en-us": { "role": { "label": "Debt Disclosure [Text Block]", "verboseLabel": "LONG-TERM DEBT", "documentation": "The entire disclosure for information about short-term and long-term debt arrangements, which includes amounts of borrowings under each line of credit, note payable, commercial paper issue, bonds indenture, debenture issue, own-share lending arrangements and any other contractual agreement to repay funds, and about the underlying arrangements, rationale for a classification as long-term, including repayment terms, interest rates, collateral provided, restrictions on use of assets and activities, whether or not in compliance with debt covenants, and other matters important to users of the financial statements, such as the effects of refinancing and noncompliance with debt covenants." } } }, "auth_ref": ["r138", "r213", "r294", "r295", "r296", "r297", "r298", "r325", "r326", "r336", "r342", "r343", "r344", "r345", "r346", "r347", "r352", "r359", "r360", "r362", "r508"] }, "us-gaap_DebtInstrumentAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentAxis", "presentation": ["http://www.aci.com/role/DisclosureLongTermDebtConvertibleSeniorNotesDetails", "http://www.aci.com/role/DisclosureLongTermDebtDebtObligationDetails"], "lang": { "en-us": { "role": { "label": "Debt Instrument [Axis]", "documentation": "Information by type of debt instrument, including, but not limited to, draws against credit facilities." } } }, "auth_ref": ["r21", "r85", "r86", "r155", "r157", "r216", "r337", "r338", "r339", "r340", "r341", "r343", "r348", "r349", "r350", "r351", "r353", "r354", "r355", "r356", "r357", "r358", "r714", "r715", "r716", "r717", "r718", "r745", "r878", "r919", "r920", "r921", "r993", "r995"] }, "us-gaap_DebtInstrumentCarryingAmount": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentCarryingAmount", "crdr": "credit", "presentation": ["http://www.aci.com/role/DisclosureLongTermDebtDebtObligationDetails"], "lang": { "en-us": { "role": { "label": "Long-Term Debt, Gross", "terseLabel": "Gross long-term debt, including current maturities", "documentation": "Amount, before unamortized (discount) premium and debt issuance costs, of long-term debt. Includes, but is not limited to, notes payable, bonds payable, commercial loans, mortgage loans, convertible debt, subordinated debt and other types of debt." } } }, "auth_ref": ["r21", "r157", "r363"] }, "us-gaap_DebtInstrumentConvertibleConversionPrice1": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentConvertibleConversionPrice1", "presentation": ["http://www.aci.com/role/DisclosureLongTermDebtConvertibleSeniorNotesDetails"], "lang": { "en-us": { "role": { "label": "Debt Instrument, Convertible, Conversion Price", "terseLabel": "Conversion price", "documentation": "The price per share of the conversion feature embedded in the debt instrument." } } }, "auth_ref": ["r139", "r339"] }, "us-gaap_DebtInstrumentFaceAmount": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentFaceAmount", "crdr": "credit", "presentation": ["http://www.aci.com/role/DisclosureLongTermDebtConvertibleSeniorNotesDetails"], "lang": { "en-us": { "role": { "label": "Debt Instrument, Face Amount", "terseLabel": "Principal amount", "documentation": "Face (par) amount of debt instrument at time of issuance." } } }, "auth_ref": ["r337", "r508", "r509", "r715", "r716", "r745"] }, "us-gaap_DebtInstrumentFairValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentFairValue", "crdr": "credit", "presentation": ["http://www.aci.com/role/DisclosureLongTermDebtConvertibleSeniorNotesDetails"], "lang": { "en-us": { "role": { "label": "Debt Instrument, Fair Value Disclosure", "terseLabel": "Debt fair value", "documentation": "Fair value portion of debt instrument payable, including, but not limited to, notes payable and loans payable." } } }, "auth_ref": ["r350", "r498", "r715", "r716", "r974", "r975", "r976", "r977", "r984"] }, "us-gaap_DebtInstrumentInterestRateStatedPercentage": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentInterestRateStatedPercentage", "presentation": ["http://www.aci.com/role/DisclosureLongTermDebtConvertibleSeniorNotesDetails"], "lang": { "en-us": { "role": { "label": "Debt Instrument, Interest Rate, Stated Percentage", "terseLabel": "Interest rate", "documentation": "Contractual interest rate for funds borrowed, under the debt agreement." } } }, "auth_ref": ["r88", "r338"] }, "us-gaap_DebtInstrumentLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentLineItems", "presentation": ["http://www.aci.com/role/DisclosureLongTermDebtConvertibleSeniorNotesDetails", "http://www.aci.com/role/DisclosureStockholdersEquityAndEarningsPerShareNarrativeDetails"], "lang": { "en-us": { "role": { "label": "Debt Instrument [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r216", "r337", "r338", "r339", "r340", "r341", "r343", "r348", "r349", "r350", "r351", "r353", "r354", "r355", "r356", "r357", "r358", "r361", "r714", "r715", "r716", "r717", "r718", "r745", "r878", "r993", "r995"] }, "us-gaap_DebtInstrumentNameDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentNameDomain", "presentation": ["http://www.aci.com/role/DisclosureLongTermDebtConvertibleSeniorNotesDetails", "http://www.aci.com/role/DisclosureLongTermDebtDebtObligationDetails"], "lang": { "en-us": { "role": { "label": "Debt Instrument, Name [Domain]", "documentation": "The name for the particular debt instrument or borrowing that distinguishes it from other debt instruments or borrowings, including draws against credit facilities." } } }, "auth_ref": ["r21", "r216", "r337", "r338", "r339", "r340", "r341", "r343", "r348", "r349", "r350", "r351", "r353", "r354", "r355", "r356", "r357", "r358", "r714", "r715", "r716", "r717", "r718", "r745", "r878", "r919", "r920", "r921", "r993", "r995"] }, "us-gaap_DebtInstrumentRedemptionPricePercentageOfPrincipalAmountRedeemed": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentRedemptionPricePercentageOfPrincipalAmountRedeemed", "presentation": ["http://www.aci.com/role/DisclosureLongTermDebtConvertibleSeniorNotesDetails"], "lang": { "en-us": { "role": { "label": "Debt Instrument, Redemption Price, Percentage of Principal Amount Redeemed", "terseLabel": "Redemption price of the principal amount to be redeemed", "documentation": "Percentage of principal amount of debt redeemed." } } }, "auth_ref": [] }, "us-gaap_DebtInstrumentTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentTable", "presentation": ["http://www.aci.com/role/DisclosureLongTermDebtConvertibleSeniorNotesDetails", "http://www.aci.com/role/DisclosureStockholdersEquityAndEarningsPerShareNarrativeDetails"], "lang": { "en-us": { "role": { "label": "Schedule of Long-Term Debt Instruments [Table]", "documentation": "Disclosure of information about long-term debt instrument or arrangement." } } }, "auth_ref": ["r21", "r45", "r46", "r74", "r140", "r141", "r216", "r337", "r338", "r339", "r340", "r341", "r343", "r348", "r349", "r350", "r351", "r353", "r354", "r355", "r356", "r357", "r358", "r361", "r714", "r715", "r716", "r717", "r718", "r745", "r878", "r993", "r995"] }, "us-gaap_DebtInstrumentUnamortizedDiscount": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentUnamortizedDiscount", "crdr": "debit", "presentation": ["http://www.aci.com/role/DisclosureLongTermDebtDebtObligationDetails"], "lang": { "en-us": { "role": { "label": "Debt Instrument, Unamortized Discount", "negatedLabel": "Less: debt discount", "documentation": "Amount, after accumulated amortization, of debt discount." } } }, "auth_ref": ["r938", "r992", "r993", "r995"] }, "us-gaap_DeferredIncomeTaxExpenseBenefit": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DeferredIncomeTaxExpenseBenefit", "crdr": "debit", "presentation": ["http://www.aci.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Deferred Income Tax Expense (Benefit)", "verboseLabel": "Deferred income tax benefit", "documentation": "Amount of deferred income tax expense (benefit) pertaining to income (loss) from continuing operations." } } }, "auth_ref": ["r10", "r172", "r880"] }, "us-gaap_DefinedBenefitPensionPlanLiabilitiesNoncurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DefinedBenefitPensionPlanLiabilitiesNoncurrent", "crdr": "credit", "presentation": ["http://www.aci.com/role/StatementUnauditedConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Liability, Defined Benefit Pension Plan, Noncurrent", "terseLabel": "Pension benefits", "documentation": "Amount of liability, recognized in statement of financial position, for defined benefit pension plan, classified as noncurrent. Excludes other postretirement benefit plan." } } }, "auth_ref": ["r51", "r52", "r91", "r143"] }, "us-gaap_Depreciation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "Depreciation", "crdr": "debit", "presentation": ["http://www.aci.com/role/DisclosureSupplementalCashFlowInformationAndOtherDisclosuresDetails"], "lang": { "en-us": { "role": { "label": "Depreciation", "verboseLabel": "Depreciation expense", "documentation": "The amount of expense recognized in the current period that reflects the allocation of the cost of tangible assets over the assets' useful lives. Includes production and non-production related depreciation." } } }, "auth_ref": ["r10", "r42"] }, "us-gaap_DepreciationDepletionAndAmortization": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DepreciationDepletionAndAmortization", "crdr": "debit", "presentation": ["http://www.aci.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Depreciation, Depletion and Amortization", "verboseLabel": "Depreciation and amortization", "documentation": "The aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets." } } }, "auth_ref": ["r10", "r246", "r253", "r258", "r709", "r710"] }, "us-gaap_DerivativeContractTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DerivativeContractTypeDomain", "presentation": [

"http://www.aei.com/role/DisclosureDerivativeFinancialInstrumentsDetails"], "lang": { "en-us": { "role": { "label": "Derivative Contract [Domain]", "documentation": "Financial instrument or contract with one or more underlyings, notional amount or payment provision or both, and the contract can be net settled by means outside the contract or delivery of an asset." } } }, "auth_ref": ["r615", "r617", "r631", "r632", "r633", "r634", "r635", "r636", "r637", "r639", "r640", "r641", "r642", "r651", "r652", "r653", "r654", "r657", "r658", "r659", "r660", "r673", "r674", "r677", "r678", "r764", "r766", "r978", "r979", "r980", "r981", "r982", "r983", "r985", "r986"] }, "us-gaap_DerivativeInstrumentRiskAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DerivativeInstrumentRiskAxis", "presentation": ["http://www.aei.com/role/DisclosureDerivativeFinancialInstrumentsDetails"], "lang": { "en-us": { "role": { "label": "Derivative Instrument [Axis]", "documentation": "Information by type of derivative contract." } } }, "auth_ref": ["r66", "r68", "r69", "r153", "r615", "r617", "r631", "r632", "r633", "r634", "r635", "r636", "r637", "r639", "r640", "r641", "r642", "r651", "r652", "r653", "r654", "r657", "r658", "r659", "r660", "r673", "r674", "r677", "r678", "r704", "r764", "r766", "r978", "r979", "r980", "r981", "r982", "r983", "r985", "r986"] }, "us-gaap_DerivativeInstrumentsAndHedgingActivitiesDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DerivativeInstrumentsAndHedgingActivitiesDisclosureAbstract", "lang": { "en-us": { "role": { "label": "DERIVATIVE FINANCIAL INSTRUMENTS" } } }, "auth_ref": [] }, "us-gaap_DerivativeInstrumentsAndHedgingActivitiesDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DerivativeInstrumentsAndHedgingActivitiesDisclosureTextBlock", "presentation": ["http://www.aei.com/role/DisclosureDerivativeFinancialInstruments"], "lang": { "en-us": { "role": { "label": "Derivative Instruments and Hedging Activities Disclosure [Text Block]", "verboseLabel": "DERIVATIVE FINANCIAL INSTRUMENTS", "documentation": "The entire disclosure for derivative instruments and hedging activities including, but not limited to, risk management strategies, non-hedging derivative instruments, assets, liabilities, revenue and expenses, and methodologies and assumptions used in determining the amounts." } } }, "auth_ref": ["r152", "r465", "r472"] }, "us-gaap_DerivativeInstrumentsGainLossByHedgingRelationshipByIncomeStatementLocationByDerivativeInstrumentRiskTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DerivativeInstrumentsGainLossByHedgingRelationshipByIncomeStatementLocationByDerivativeInstrumentRiskTable", "presentation": ["http://www.aei.com/role/DisclosureDerivativeFinancialInstrumentsDetails"], "lang": { "en-us": { "role": { "label": "Derivative Instruments, Gain (Loss) [Table]", "documentation": "Disclosure of information about the location and amount of derivative instruments and nonderivative instruments designated as hedging instruments reported before netting adjustments, and the amount of gain (loss) on derivative instruments and nonderivative instruments designated and qualified as hedging instruments." } } }, "auth_ref": ["r17", "r66", "r68", "r69", "r70", "r71", "r464"] }, "us-gaap_DerivativeInstrumentsGainLossLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DerivativeInstrumentsGainLossLineItems", "presentation": ["http://www.aei.com/role/DisclosureDerivativeFinancialInstrumentsDetails"], "lang": { "en-us": { "role": { "label": "Derivative Instruments, Gain (Loss) [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r464"] }, "us-gaap_DerivativeNotionalAmount": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DerivativeNotionalAmount", "presentation": ["http://www.aei.com/role/DisclosureDerivativeFinancialInstrumentsDetails"], "lang": { "en-us": { "role": { "label": "Derivative, Notional Amount", "terseLabel": "Derivative, notional amount", "documentation": "Nominal or face amount used to calculate payment on derivative." } } }, "auth_ref": ["r969", "r970"] }, "us-gaap_DisaggregationOfRevenueLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DisaggregationOfRevenueLineItems", "presentation": ["http://www.aei.com/role/DisclosureRevenueDetails"], "lang": { "en-us": { "role": { "label": "Disaggregation of Revenue [Line Items]", "terseLabel": "Disaggregation of Revenue [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r378", "r720", "r721", "r722", "r723", "r724", "r725", "r726"] }, "us-gaap_DisaggregationOfRevenueTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DisaggregationOfRevenueTable", "presentation": ["http://www.aei.com/role/DisclosureRevenueDetails"], "lang": { "en-us": { "role": { "label": "Disaggregation of Revenue [Table]", "terseLabel": "Disaggregation of Revenue [Table]", "documentation": "Disclosure of information about disaggregation of revenue into categories depicting how nature, amount, timing, and uncertainty of revenue and cash flows are affected by economic factor." } } }, "auth_ref": ["r378", "r720", "r721", "r722", "r723", "r724", "r725", "r726"] }, "us-gaap_DisaggregationOfRevenueTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DisaggregationOfRevenueTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureRevenueTables"], "lang": { "en-us": { "role": { "label": "Disaggregation of Revenue [Table Text Block]", "terseLabel": "Schedule of disaggregation of revenue", "documentation": "Tabular disclosure of disaggregation of revenue into categories depicting how nature, amount, timing, and uncertainty of revenue and cash flows are affected by economic factor." } } }, "auth_ref": ["r939"] }, "us-gaap_DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "presentation": ["http://www.aei.com/role/DisclosureStockBasedCompensation"], "lang": { "en-us": { "role": { "label": "Share-Based Payment Arrangement [Text Block]", "verboseLabel": "STOCK-BASED COMPENSATION", "documentation": "The entire disclosure for share-based payment arrangement." } } }, "auth_ref": ["r389", "r394", "r422", "r423", "r425", "r733"] }, "us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract", "lang": { "en-us": { "role": { "label": "STOCK-BASED COMPENSATION" } } }, "auth_ref": [] }, "us-gaap_DisclosureOfShareBasedCompensationArrangementsByShareBasedPaymentAwardTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DisclosureOfShareBasedCompensationArrangementsByShareBasedPaymentAwardTextBlock", "presentation": ["http://www.aei.com/role/DisclosureStockBasedCompensationTables"], "lang": { "en-us": { "role": { "label": "Disclosure of Share-Based Compensation Arrangements by Share-Based Payment Award [Table Text Block]", "terseLabel": "Summary of information related to stock-based incentive compensation plans", "documentation": "Tabular disclosure of share-based payment arrangement." } } }, "auth_ref": ["r12", "r53"] }, "us-gaap_DividendsCommonStock": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DividendsCommonStock", "crdr": "debit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfStockholdersEquity"], "lang": { "en-us": { "role": { "label": "Dividends, Common Stock", "negatedLabel": "Dividends declared ($0.10 per share)", "documentation": "Amount of paid and unpaid common stock dividends declared with the form of settlement in cash, stock and payment-in-kind (PIK)." } } }, "auth_ref": ["r8", "r142"] }, "dei_DocumentFiscalPeriodFocus": { "xbrltype": "fiscalPeriodItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentFiscalPeriodFocus", "presentation": ["http://www.aei.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Fiscal Period Focus", "terseLabel": "Document Fiscal Period Focus", "documentation": "Fiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY." } } }, "auth_ref": [] }, "dei_DocumentFiscalYearFocus": { "xbrltype": "gYearItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentFiscalYearFocus", "presentation": ["http://www.aei.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Fiscal Year Focus", "terseLabel": "Document Fiscal Year Focus", "documentation": "This is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006." } } }, "auth_ref": [] }, "dei_DocumentPeriodEndDate": { "xbrltype": "dateItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentPeriodEndDate", "presentation": ["http://www.aei.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Period End Date", "terseLabel": "Document Period End Date", "documentation": "For the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD." } } }, "auth_ref": [] }, "dei_DocumentQuarterlyReport": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentQuarterlyReport", "presentation": ["http://www.aei.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Quarterly Report", "documentation": "Boolean flag that is true only for a form used as an quarterly report." } } }, "auth_ref": ["r780"] }, "dei_DocumentTransitionReport": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentTransitionReport", "presentation": ["http://www.aei.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Transition Report", "documentation": "Boolean flag that is true only for a form used as a transition report." } } }, "auth_ref": ["r812"] }, "dei_DocumentType": { "xbrltype": "submissionTypeItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentType", "presentation": ["http://www.aei.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Type", "terseLabel": "Document Type", "documentation": "The type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). 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Diluted", "terseLabel": "Diluted earnings (loss) per share", "documentation": "The amount of net income (loss) for the period available to each
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assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period." } } },
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Discontinued Operations", "terseLabel": "EFFECT OF CURRENCY TRANSLATION ON CASH AND CASH EQUIVALENTS", "documentation": "Amount
of increase (decrease) from effect of exchange rate changes on cash and cash equivalents, and cash and cash equivalents restricted to withdrawal
or usage; held in foreign currencies; including, but not limited to, disposal group and discontinued operations. Cash includes, but is not limited to,
currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash
equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so
near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r989"] }, "us-
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related to services received from employees, such as accrued salaries and bonuses, payroll taxes and fringe benefits. Used to reflect the current
portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r86"] }, "us-
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or restructurings pursuant to a plan." } } }, "auth_ref": [] }, "us-gaap_EmployeeStockMember": { "xbrltype": "domainItemType", "nsuri":
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of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where
multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B
[Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument." } } }, "auth_ref": [] },
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months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for
the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure." } } },
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Category", "terseLabel": "Entity Filer Category", "documentation": "Indicate whether the registrant is one of the following: Large Accelerated Filer,
Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be
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~~electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files)." } } }, "auth_ref": ["r862"] }, "dei_EntityRegistrantName": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityRegistrantName", "presentation": ["http://www.aei.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Registrant Name", "terseLabel": "Entity Registrant Name", "documentation": "The exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC." } } }, "auth_ref": ["r778"] }, "dei_EntityShellCompany": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityShellCompany", "presentation": ["http://www.aei.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Shell Company", "terseLabel": "Entity Shell Company", "documentation": "Boolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act." } } }, "auth_ref": ["r778"] }, "dei_EntitySmallBusiness": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntitySmallBusiness", "presentation": ["http://www.aei.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Small Business", "terseLabel": "Entity Small Business", "documentation": "Indicates that the company is a Smaller Reporting Company (SRC)." } } }, "auth_ref": ["r778"] }, "dei_EntityTaxIdentificationNumber": { "xbrltype": "employerIdItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityTaxIdentificationNumber", "presentation": ["http://www.aei.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Tax Identification Number", "documentation": "The Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS." } } }, "auth_ref": ["r778"] }, "us-gaap_EntityWideRevenueMajorCustomerLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EntityWideRevenueMajorCustomerLineItems", "presentation": ["http://www.aei.com/role/DisclosureRevenueSignificantCustomersDetails"], "lang": { "en-us": { "role": { "label": "Revenue, Major Customer [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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those instruments as well as disclosures related to the fair value of non-financial assets and liabilities. Such disclosures about the financial
instruments, assets, and liabilities would include: (1) the fair value of the required items together with their carrying amounts (as appropriate); (2)
for items for which it is not practicable to estimate fair value, disclosure would include: (a) information pertinent to estimating fair value
(including, carrying amount, effective interest rate, and maturity, and (b) the reasons why it is not practicable to estimate fair value; (3) significant
concentrations of credit risk including: (a) information about the activity, region, or economic characteristics identifying a concentration, (b) the
maximum amount of loss the entity is exposed to based on the gross fair value of the related item, (c) policy for requiring collateral or other
security and information as to accessing such collateral or security, and (d) the nature and brief description of such collateral or security; (4)
quantitative information about market risks and how such risks are managed; (5) for items measured on both a recurring and nonrecurring basis
information regarding the inputs used to develop the fair value measurement; and (6) for items presented in the financial statement for which fair
value measurement is elected: (a) information necessary to understand the reasons for the election, (b) discussion of the effect of fair value
changes on earnings, (c) a description of [similar groups] items for which the election is made and the relation thereof to the balance sheet, the
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Risk is the materially adverse effects of economic decline or antagonistic political actions resulting in loss of assets, sales volume, labor supply, or source of materials and supplies in a US state or a specified country, continent, or region such as EMEA (Europe, Middle East, Africa)." } } }, "auth_ref": ["r37", "r683"] }, "us-gaap_Goodwill": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "Goodwill", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureAcquisitionsAssetsAcquiredAndLiabilitiesAssumedDetails", "http://www.aei.com/role/DisclosureIntangibleAssetsAndGoodwillChangeInGoodwillDetails", "http://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Goodwill", "periodEndLabel": "Balance at end of period", "periodStartLabel": "Balance at beginning of period", "terseLabel": "Goodwill (not deductible for tax purposes)", "verboseLabel": "Goodwill", "documentation": "Amount, 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tax expense (benefit) pertaining to continuing operations." } } }, "auth_ref": ["r167", "r173", "r229", "r230", "r246", "r254", "r258", "r430", "r431",
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Operating Capital [Abstract]", "verboseLabel": "Changes in operating assets and liabilities, net of assets acquired" } } }, "auth_ref": [] },
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~~yet paid and customer deposits and deferred revenue.", "label": "Increase Decrease In Other Current Liabilities And Accrued Expenses", "negatedLabel": "Other liabilities and accrued expenses" } } }, "auth_ref": [] }, "us-gaap_IncreaseDecreaseInOtherOperatingAssets": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncreaseDecreaseInOtherOperatingAssets", "crdr": "credit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Increase (Decrease) in Other Operating Assets", "negatedLabel": "Other assets", "documentation": "Amount of increase (decrease) in operating assets classified as other." } } }, "auth_ref": ["r9"] }, "us-gaap_IncrementalCommonSharesAttributableToShareBasedPaymentArrangements": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncrementalCommonSharesAttributableToShareBasedPaymentArrangements", 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"Individual:" } } }, "auth_ref": ["r789", "r799", "r809", "r833", "r841", "r845", "r853"] }, "aeis_IndustrialAndMedicalMember": { "xbrltype": "domainItemType", "nsuri": "http://www.aei.com/20240930", "localname": "IndustrialAndMedicalMember", "presentation": ["http://www.aei.com/role/DisclosureRevenueDetails"], "lang": { "en-us": { "role": { "documentation": "Represents industrial and medical product or service.", "label": "Industrial and Medical" } } }, "auth_ref": [] }, "ecd_InsiderTradingArrLineItems": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "InsiderTradingArrLineItems", "lang": { "en-us": { "role": { "label": "Insider Trading Arrangements [Line Items]", "terseLabel": "Insider Trading Arrangements:" } } }, "auth_ref": ["r851"] }, "ecd_InsiderTradingPoliciesProcLineItems": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "InsiderTradingPoliciesProcLineItems", "lang": { "en-us": { "role": { "label": "Insider Trading Policies and Procedures [Line Items]", "terseLabel": "Insider Trading Policies and Procedures:" } } }, "auth_ref": ["r781", "r857"] }, "ecd_InsiderTrdPoliciesProcAdoptedFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "InsiderTrdPoliciesProcAdoptedFlag", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingPoliciesProc"], "lang": { "en-us": { "role": { "label": "Insider Trading Policies and Procedures Adopted [Flag]", "terseLabel": "Insider Trading Policies and Procedures Adopted" } } }, "auth_ref": ["r781", "r857"] }, "ecd_InsiderTrdPoliciesProcNotAdoptedTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "InsiderTrdPoliciesProcNotAdoptedTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingPoliciesProc"], "lang": { "en-us": { "role": { "label": "Insider Trading Policies and Procedures Not Adopted [Text Block]", "terseLabel": "Insider Trading Policies and Procedures Not Adopted" } } }, "auth_ref": ["r781", "r857"] }, "us-gaap_InterestAndDebtExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InterestAndDebtExpense", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureLongTermDebtInterestExpenseDetails"], "lang": { "en-us": { "role": { "label": "Interest and Debt Expense", "totalLabel": "Total interest expense related to debt", "documentation": "Interest and debt related expenses associated with nonoperating financing activities of the entity." } } }, "auth_ref": ["r874"] }, "aeis_InterestAndIncomeTaxesPaidAbstractAbstract": { "xbrltype": "stringItemType", "nsuri": "http://www.aei.com/20240930", "localname": "InterestAndIncomeTaxesPaidAbstractAbstract", "presentation": ["http://www.aei.com/role/DisclosureSupplementalCashFlowInformationAndOtherDisclosuresDetails"], "lang": { "en-us": { "role": { "documentation": "Interest And Income Taxes Paid Abstract 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{ "role": { "label": "Interest Expense, Operating and Nonoperating", "negatedLabel": "Interest expense", "documentation": "Amount of interest expense classified as operating and nonoperating. Includes, but is not limited to, cost of borrowing accounted for as interest expense." } } }, "auth_ref": ["r246", "r248", "r252", "r255", "r258", "r507", "r709", "r710"] }, "us-gaap_InterestExpenseDebt": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InterestExpenseDebt", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureLongTermDebtInterestExpenseDetails"], "lang": { "en-us": { "role": { "label": "Interest Expense, Debt", "terseLabel": "Interest expense", "documentation": "Amount of the cost of borrowed funds accounted for as interest expense for debt." } } }, "auth_ref": ["r117", "r356", "r365", "r717", "r718"] }, "us-gaap_InterestPaidNet": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InterestPaidNet", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureSupplementalCashFlowInformationAndOtherDisclosuresDetails"], "lang": { "en-us": { "role": { "label": "Interest Paid, Excluding Capitalized Interest, Operating Activities", "terseLabel": "Interest expense", "documentation": "Amount of cash paid for interest, excluding capitalized interest, classified as operating activity. Includes, but is not limited to, payment to settle zero-coupon bond for accreted interest of debt discount and debt instrument with insignificant coupon interest rate in relation to effective interest rate of borrowing attributable to accreted interest of debt discount." } } }, "auth_ref": ["r205", "r208", "r210"] }, "us-gaap_InterestRateSwapMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InterestRateSwapMember", "presentation": ["http://www.aei.com/role/DisclosureFairValueMeasurementsAssetsAndLiabilitiesMeasuredAtFairValueDetails"], "lang": { "en-us": { "role": { "label": "Interest Rate Swap", "documentation": "Forward based contracts in which two parties agree to swap periodic payments that are fixed at the outset of the swap contract with variable payments based on a market interest rate (index rate) over a specified period." } } }, "auth_ref": ["r697", "r771", "r772"] }, "us-gaap_InventoryDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InventoryDisclosureAbstract", "lang": { "en-us": { "role": { "label": "INVENTORIES" } } }, "auth_ref": [] }, "us-gaap_InventoryDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InventoryDisclosureTextBlock", "presentation": ["http://www.aei.com/role/DisclosureInventories"], "lang": { "en-us": { "role": { "label": "Inventory Disclosure [Text Block]", "verboseLabel": "INVENTORIES", "documentation": "The entire disclosure for inventory. Includes, but is not limited to, the basis of stating inventory, the method of determining inventory cost, the classes of inventory, and the nature of the cost elements included in inventory." } } }, "auth_ref": ["r275"] }, "us-gaap_InventoryFinishedGoodsNetOfReserves": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InventoryFinishedGoodsNetOfReserves", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureInventoriesDetails"], "lang": { "en-us": { "role": { "label": "Inventory, Finished Goods, Net of Reserves", "terseLabel": "Finished goods", "documentation": "Carrying amount, net of valuation reserves and adjustments, as of the balance sheet date of merchandise or goods held by the company that are readily available for sale." } } }, "auth_ref": ["r133", "r702"] }, "us-gaap_InventoryNet": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InventoryNet", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureInventoriesDetails", "http://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Inventory, Net", "terseLabel": "Inventories", "totalLabel": "Total", "documentation": "Amount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer." } } }, "auth_ref": ["r187", "r701", "r747"] }, "us-gaap_InventoryRawMaterialsAndPurchasedPartsNetOfReserves": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InventoryRawMaterialsAndPurchasedPartsNetOfReserves", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureInventoriesDetails"], "lang": { "en-us": { "role": { "label": "Inventory, Raw Materials and Purchased Parts, Net of Reserves", "terseLabel": "Parts and raw materials", "documentation": "Carrying amount, net of valuation reserves and adjustments, as of the balance sheet date of items purchased for use as components of a finished product or pieces of machinery and equipment plus any items in their natural and unrefined state. This element may be used when the reporting entity combines raw materials and purchased parts into an aggregate amount." } } }, "auth_ref": ["r133", "r869"] }, "us-gaap_InventoryWorkInProcessNetOfReserves": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InventoryWorkInProcessNetOfReserves", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureInventoriesDetails"], "lang": { "en-us": { "role": { "label": "Inventory, Work in Process, Net of Reserves", "terseLabel": "Work in process", "documentation": "Carrying amount, comprised of net of reserves and adjustments, as of the balance sheet date of merchandise or goods which are partially completed. This inventory is generally comprised of raw materials, labor and factory overhead costs, which require further materials, labor and overhead to be converted into finished goods, and which generally require the use of estimates to determine percentage complete and pricing." } } }, "auth_ref": ["r133", "r703"] }, "us-gaap_InvestmentIncomeInterest": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InvestmentIncomeInterest", "crdr": "credit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Investment Income, Interest", "terseLabel": "Interest income", "documentation": "Amount before accretion (amortization) of purchase discount (premium) of interest income on nonoperating securities." } } }, "auth_ref": ["r246", "r251", "r258", "r709", "r873"] }, "us-gaap_InvestmentsMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InvestmentsMember", "presentation": ["http://www.aei.com/role/DisclosureFairValueMeasurementsAssetsAndLiabilitiesMeasuredAtFairValueDetails"], "lang": { "en-us": { "role": { "label": "Investments [Member]", "terseLabel": "Investments", "documentation": "Assets held for their financial return, rather than for the entity's~~

~~operations." } } }, "auth_ref": [] }, "aeis_LamResearchCorporationMember": { "xbrltype": "domainItemType", "nsuri": "http://www.aei.com/20240930", "localname": "LamResearchCorporationMember", "presentation": ["http://www.aei.com/role/DisclosureRevenueSignificantCustomersDetails"], "lang": { "en-us": { "role": { "documentation": "Represents Lam Research Corporation.", "label": "Lam Research Corporation [Member]", "terseLabel": "Lam Research Corporation" } } }, "auth_ref": [] }, "us-gaap_LeaseCost": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LeaseCost", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureLeasesComponentsOfOperatingLeaseCostDetails"], "lang": { "en-us": { "role": { "label": "Lease, Cost", "totalLabel": "Total operating lease cost", "documentation": "Amount of lease cost recognized by lessee for lease contract." } } }, "auth_ref": ["r517", "r746"] }, "us-gaap_LeaseCostTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LeaseCostTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureLeasesTables"], "lang": { "en-us": { "role": { "label": "Lease, Cost [Table Text Block]", "terseLabel": "Components of operating lease cost", "documentation": "Tabular disclosure of lessee's lease cost. Includes, but is not limited to, interest expense for finance lease, amortization of right-of-use asset for finance lease, operating lease cost, short-term lease cost, variable lease cost and sublease income." } } }, "auth_ref": ["r996"] }, "us-gaap_LeasesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LeasesAbstract", "lang": { "en-us": { "role": { "label": "LEASES" } } }, "auth_ref": [] }, "us-gaap_LesseeLeaseDescriptionLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeLeaseDescriptionLineItems", "presentation": ["http://www.aei.com/role/DisclosureLeasesOtherLeaseCostInformationDetails"], "lang": { "en-us": { "role": { "label": "Lessee, Lease, Description [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r516", "r525"] }, "us-gaap_LesseeLeaseDescriptionTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeLeaseDescriptionTable", "presentation": ["http://www.aei.com/role/DisclosureLeasesOtherLeaseCostInformationDetails"], "lang": { "en-us": { "role": { "label": "Lessee, Lease, Description [Table]", "documentation": "Disclosure of information about lessee's leases." } } }, "auth_ref": ["r516", "r525"] }, "us-gaap_LesseeOperatingLeaseLiabilityMaturityTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityMaturityTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureLeasesTables"], "lang": { "en-us": { "role": { "label": "Lessee, Operating Lease, Liability, to be Paid, Maturity [Table Text Block]", "terseLabel": "Schedule of estimated future payments on operating lease liabilities", "documentation": "Tabular disclosure of undiscounted cash flows of lessee's operating lease liability. Includes, but is not limited to, reconciliation of undiscounted cash flows to operating lease liability recognized in statement of financial position." } } }, "auth_ref": ["r997"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDue", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureLeasesMaturitiesOfOperatingLeaseLiabilitiesDetails"], "lang": { "en-us": { "role": { "label": "Lessee, Operating Lease, Liability, to be Paid", "totalLabel": "Total lease payments", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease." } } }, "auth_ref": ["r523"] }, "aeis_LesseeOperatingLeaseLiabilityPaymentsDueAfterYearFour": { "xbrltype": "monetaryItemType", "nsuri": "http://www.aei.com/20240930", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueAfterYearFour", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureLeasesMaturitiesOfOperatingLeaseLiabilitiesDetails"], "lang": { "en-us": { "role": { "documentation": "Amount of lessee's undiscounted obligation for lease payments for operating lease, due after fourth fiscal year following latest fiscal year.", "label": "Lessee Operating Lease Liability Payments Due After Year Four", "terseLabel": "Thereafter" } } }, "auth_ref": [] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureLeasesMaturitiesOfOperatingLeaseLiabilitiesDetails"], "lang": { "en-us": { "role": { "label": "Lessee, Operating Lease, Liability, to be Paid, Year One", "terseLabel": "2025", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r523"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearFour": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueYearFour", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureLeasesMaturitiesOfOperatingLeaseLiabilitiesDetails"], "lang": { "en-us": { "role": { "label": "Lessee, Operating Lease, Liability, to be Paid, Year Four", "terseLabel": "2028", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r523"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearThree": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueYearThree", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureLeasesMaturitiesOfOperatingLeaseLiabilitiesDetails"], "lang": { "en-us": { "role": { "label": "Lessee, Operating Lease, Liability, to be Paid, Year Three", "terseLabel": "2027", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r523"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearTwo": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueYearTwo", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureLeasesMaturitiesOfOperatingLeaseLiabilitiesDetails"], "lang": { "en-us": { "role": { "label": "Lessee, Operating Lease, Liability, to be Paid, Year Two", "terseLabel": "2026", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r523"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsRemainderOfFiscalYear": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsRemainderOfFiscalYear", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureLeasesMaturitiesOfOperatingLeaseLiabilitiesDetails"], "lang": { "en-us": { "role": { "label": "Lessee, Operating Lease, Liability, to be Paid, Remainder of Fiscal Year", "verboseLabel": "2024 (remaining)", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease having initial or remaining lease term in excess of one year to be paid in remainder of current fiscal year." } } }, "auth_ref": ["r997"] }, "us-gaap_LesseeOperatingLeaseLiabilityUndiscountedExcessAmount": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityUndiscountedExcessAmount", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureLeasesMaturitiesOfOperatingLeaseLiabilitiesDetails"], "lang": { "en-us": { "role": { "label": "Lessee, Operating Lease, Liability, Undiscounted Excess Amount", "negatedTerseLabel": "Less: Interest", "documentation": "Amount of lessee's undiscounted obligation for lease payments in excess of discounted obligation for lease payments for operating lease." } } }, "auth_ref": ["r523"] }, "us-gaap_LesseeOperatingLeasesTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeasesTextBlock", "presentation": ["http://www.aei.com/role/DisclosureLeases"], "lang": { "en-us": { "role": { "label": "Lessee, Operating Leases [Text Block]", "terseLabel": "LEASES", "documentation": "The entire disclosure for operating leases of lessee. Includes, but is not limited to, description of operating lease and maturity analysis of operating lease liability." } } }, "auth_ref": ["r511"] }, "us-gaap_Liabilities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "Liabilities", "crdr": "credit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Liabilities", "totalLabel": "Total liabilities", "documentation": "Amount of liability recognized for present obligation requiring transfer or otherwise providing economic benefit to others." } } }, "auth_ref": ["r21", "r85", "r86", "r87", "r90", "r91", "r92", "r93", "r214", "r267", "r327", "r328", "r329", "r330", "r331", "r332", "r333", "r334", "r335", "r458", "r462", "r463", "r499", "r624", "r707", "r776", "r935", "r998", "r999"] }, "us-gaap_LiabilitiesAndStockholdersEquity": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LiabilitiesAndStockholdersEquity", "crdr": "credit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Liabilities and Equity", "totalLabel": "TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY", "documentation": "Amount of liabilities and equity items, including the portion of equity attributable to noncontrolling interests, if any." } } }, "auth_ref": ["r100", "r159", "r578", "r747", "r879", "r893", "r988"] }, "us-gaap_LiabilitiesAndStockholdersEquityAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LiabilitiesAndStockholdersEquityAbstract", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Liabilities and Equity [Abstract]", "verboseLabel": "LIABILITIES AND STOCKHOLDERS' EQUITY" } } }, "auth_ref": [] }, "us-gaap_LiabilitiesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LiabilitiesCurrent", "crdr": "credit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Liabilities, Current", "totalLabel": "Total current liabilities", "documentation": "Total obligations incurred as part of normal operations that are expected to be paid during the following twelve months or within one business cycle, if longer." } } }, "auth_ref": ["r87", "r178", "r214", "r267", "r327", "r328", "r329", "r330", "r331", "r332", "r333", "r334", "r335", "r458", "r462", "r463", "r499", "r747", "r935", "r998", "r999"] }, "us-gaap_LiabilitiesCurrentAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LiabilitiesCurrentAbstract", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Liabilities, Current [Abstract]", "verboseLabel": "Current liabilities:" } } }, "auth_ref": [] }, "us-gaap_LiabilitiesFairValueDisclosure": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LiabilitiesFairValueDisclosure", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureFairValueMeasurementsAssetsAndLiabilitiesMeasuredAtFairValueDetails"], "lang": { "en-us": { "role": { "label": "Liabilities, Fair Value Disclosure", "terseLabel": "Liabilities, Fair Value Disclosure", "documentation": "Fair value of financial and nonfinancial obligations." } } }, "auth_ref": ["r478", "r973"] }, "us-gaap_LineOfCredit": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LineOfCredit", "crdr": "credit", "presentation": [~~

~~"http://www.aei.com/role/DisclosureLongTermDebtCreditFacilityDetails"], "lang": { "en-us": { "role": { "label": "Long-Term Line of Credit",
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obligations drawn from a line of credit, which is a bank's commitment to make loans up to a specific amount. Examples of items that might be
included in the application of this element may consist of letters of credit, standby letters of credit, and revolving credit arrangements, under
which borrowings can be made up to a maximum amount as of any point in time conditional on satisfaction of specified terms before, as of and
after the date of drawdowns on the line. Includes short-term obligations that would normally be classified as current liabilities but for which (a)
postbalance sheet date issuance of a long term obligation to refinance the short term obligation on a long term basis, or (b) the enterprise has
entered into a financing agreement that clearly permits the enterprise to refinance the short-term obligation on a long term basis and the
following conditions are met (1) the agreement does not expire within 1 year and is not cancelable by the lender except for violation of an
objectively determinable provision, (2) no violation exists at the BS date, and (3) the lender has entered into the financing agreement is expected
to be financially capable of honoring the agreement." } } }, "auth_ref": ["r21", "r157", "r1008"] },
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"presentation": ["http://www.aei.com/role/DisclosureLongTermDebtCreditFacilityDetails"], "lang": { "en-us": { "role": { "documentation": "The
contingent increase above the maximum borrowing capacity under the credit facility, if any one or more of the existing banks or new banks agree
to provide such increased commitment amount.", "label": "Line of Credit Facility Contingent Increase, Additional Borrowing Capacity",
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"Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain
members defined in one or many axes to the table." } } }, "auth_ref": ["r326", "r878", "r933"] }, "us-
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Borrowing Capacity", "verboseLabel": "Borrowing capacity", "documentation": "Maximum borrowing capacity under the credit facility without
consideration of any current restrictions on the amount that could be borrowed or the amounts currently outstanding under the facility." } } },
"auth_ref": ["r84", "r89"] }, "aeis_LineOfCreditFacilityOutstandingPrincipalBalance": { "xbrltype": "monetaryItemType", "nsuri":
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principal balance under the credit facility.", "label": "Line Of Credit Facility Outstanding Principal Balance", "terseLabel": "Outstanding principal
balance" } } }, "auth_ref": [] }, "us-gaap_LineOfCreditFacilityRemainingBorrowingCapacity": { "xbrltype": "monetaryItemType", "nsuri":
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facility (current borrowing capacity less the amount of borrowings outstanding)." } } }, "auth_ref": ["r84", "r89", "r326"] }, "us-
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"http://www.aei.com/role/DisclosureLongTermDebtDebtObligationDetails"], "lang": { "en-us": { "role": { "label": "Line of Credit Facility [Table]",
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arrangements with lender under which borrowing can occur up to maximum amount. Includes, but is not limited to, letter of credit, standby letter
of credit, and revolving credit arrangement." } } }, "auth_ref": ["r84", "r89", "r326", "r878", "r933"] }, "dei_LocalPhoneNumber": { "xbrltype":
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"http://www.aei.com/role/DisclosureLongTermDebtDebtObligationDetails"], "lang": { "en-us": { "role": { "label": "Long-Term Debts", "terseLabel":
"Long-term Debt", "totalLabel": "Net long-term debt, including current maturities", "documentation": "Amount, after deduction of unamortized
premium (discount) and debt issuance cost, of long-term debt. Excludes lease obligation." } } }, "auth_ref": ["r21", "r157", "r349", "r364", "r715",
"r716", "r745", "r1008"] }, "us-gaap_LongTermDebtAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname":
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Maturities", "negatedLabel": "Less: current maturities", "verboseLabel": "Current portion of long-term debt", "documentation": "Amount, after
deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as current. Excludes lease obligation." } } },
"auth_ref": ["r183"] }, "us-gaap_LongTermDebtNoncurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024",
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"r1040", "r1041"] }, "srt_MaximumMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "MaximumMember",
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"http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesNarrativeDetails",
"http://www.aei.com/role/DisclosureStockBasedCompensationDetails",
"http://www.aei.com/role/DisclosureStockholdersEquityAndEarningsPerShareNarrativeDetails",
"http://www.aei.com/role/DisclosureWarrantiesNarrativeDetails"], "lang": { "en-us": { "role": { "label": "Maximum" } } }, "auth_ref": ["r310",
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"r711", "r719", "r732", "r741", "r742", "r743", "r744", "r758", "r937", "r1000", "r1001", "r1002", "r1003", "r1004", "r1005"] }, "ecd_MeasureAxis":
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"http://www.aei.com/role/DisclosureStockBasedCompensationDetails",
"http://www.aei.com/role/DisclosureStockholdersEquityAndEarningsPerShareNarrativeDetails",
"http://www.aei.com/role/DisclosureWarrantiesNarrativeDetails"], "lang": { "en-us": { "role": { "label": "Minimum" } } }, "auth_ref": ["r310",
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Standard and Extended Product Warranty Accrual, Increase (Decrease) [Roll Forward]", "terseLabel": "Movement in Standard Product Warranty
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"MtrlTermsOfTrdArrTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements"], "lang": { "en-us": { "role": { "label": "Material Terms of Trading Arrangement [Text Block]", "terseLabel": "Material Terms of Trading Arrangement" } } }, "auth_ref": ["r852"] }, "srt_NameOfMajorCustomerDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "NameOfMajorCustomerDomain", "presentation": ["http://www.aei.com/role/DisclosureRevenueSignificantCustomersDetails"], "lang": { "en-us": { "role": { "label": "Customer [Domain]" } } }, "auth_ref": ["r262", "r722", "r757", "r761", "r939", "r1011", "r1014", "r1015", "r1017", "r1018", "r1019", "r1020", "r1021", "r1022", "r1023", "r1024", "r1025", "r1026", "r1027", "r1028", "r1029", "r1030", "r1031", "r1032", "r1033", "r1034", "r1035", "r1036", "r1037", "r1038", "r1039", "r1040", "r1041"] }, "ecd_NamedExecutiveOfficersFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "NamedExecutiveOfficersFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Named Executive Officers, Footnote [Text Block]", "terseLabel": "Named Executive Officers, Footnote" } } }, "auth_ref": ["r826"] }, "us-gaap_NetCashProvidedByUsedInFinancingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInFinancingActivities", "crdr": "debit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Net Cash Provided by (Used in) Financing Activities", "totalLabel": "Net cash from financing activities", "documentation": "Amount of cash inflow (outflow) from financing activities, including discontinued operations. Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit." } } }, "auth_ref": ["r207"] }, "us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInFinancingActivitiesAbstract", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Net Cash Provided by (Used in) Financing Activities [Abstract]", "verboseLabel": "CASH FLOWS FROM FINANCING ACTIVITIES:" } } }, "auth_ref": [] }, "us-gaap_NetCashProvidedByUsedInInvestingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInInvestingActivities", "crdr": "debit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Net Cash Provided by (Used in) Investing Activities", "totalLabel": "Net cash from investing activities", "documentation": "Amount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets." } } }, "auth_ref": ["r207"] }, "us-gaap_NetCashProvidedByUsedInInvestingActivitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInInvestingActivitiesAbstract", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Net Cash Provided by (Used in) Investing Activities [Abstract]", "verboseLabel": "CASH FLOWS FROM INVESTING ACTIVITIES:" } } }, "auth_ref": [] }, "us-gaap_NetCashProvidedByUsedInOperatingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInOperatingActivities", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Net Cash Provided by (Used in) Operating Activities", "totalLabel": "Net cash from operating activities", "documentation": "Amount of cash inflow (outflow) from operating activities, including discontinued operations. 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Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities." } } }, "auth_ref": ["r123", "r124", "r126"] }, "us-gaap_NetIncomeLoss": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetIncomeLoss", "crdr": "credit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfComprehensiveIncomeLoss", "http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfOperations", "http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "totalLabel": "Net income (loss)", "verboseLabel": "Net income (loss)", "label": "Net Income (Loss)", "terseLabel": "Net Income (Loss)", "documentation": "The portion of profit or loss for the period, net of income taxes, which is attributable to the parent." } } }, "auth_ref": ["r115", "r126", "r162", "r176", "r193", "r196", "r200", "r214", "r220", "r222", "r223", "r224", "r225", "r226", "r229", "r230", "r240", "r267", "r327", "r328", "r329", "r330", "r331", "r332", "r333", "r334", "r335", "r449", "r455", "r475", "r499", "r583", "r646", "r661", "r662", "r774", "r935"] }, "us-gaap_NetIncomeLossAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetIncomeLossAbstract", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Net Income (Loss) Attributable to Parent [Abstract]", "terseLabel": "Net income (loss):" } } }, "auth_ref": [] }, "us-gaap_NetIncomeLossFromContinuingOperationsAvailableToCommonShareholdersBasic": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetIncomeLossFromContinuingOperationsAvailableToCommonShareholdersBasic", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureStockholdersEquityAndEarningsPerShareEarningsPerShareDetails"], "lang": { "en-us": { "role": { "label": "Net Income (Loss) from Continuing Operations Available to Common Shareholders, Basic", "terseLabel": "Income (loss) from continuing operations", "documentation": "Amount, after deduction of tax, noncontrolling interests, dividends on preferred stock and participating securities; of income (loss) from continuing operations available to common shareholders." } } }, "auth_ref": ["r233", "r243"] }, "aeis_NetPaymentsProceedsRelatedToStockBasedAwardActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://www.aei.com/20240930", "localname": "NetPaymentsProceedsRelatedToStockBasedAwardActivities", "crdr": "debit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "documentation": "Net (payments) proceeds related to stock based award activities", "label": "Net Payments Proceeds Related To Stock Based Award Activities", "terseLabel": "Net payments related to stock-based awards" } } }, "auth_ref": [] }, "us-gaap_NewAccountingPronouncementsPolicyPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NewAccountingPronouncementsPolicyPolicyTextBlock", "presentation": ["http://www.aei.com/role/DisclosureDescriptionOfBusinessAndBasisOfPresentationPolicies"], "lang": { "en-us": { "role": { "label": "New Accounting Pronouncements, Policy [Policy Text Block]", "terseLabel": "New Accounting Standards", "documentation": "Disclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity's financial reporting. Includes, but is not limited to, quantification of the expected or actual impact." } } }, "auth_ref": [] }, "ecd_NonGaapMeasureDescriptionTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "NonGaapMeasureDescriptionTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Non-GAAP Measure Description [Text Block]", "terseLabel": "Non-GAAP Measure Description" } } }, "auth_ref": ["r825"] }, "ecd_NonNeosMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "NonNeosMember", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"], "lang": { "en-us": { "role": { "label": "Non-NEOs [Member]", "terseLabel": "Non-NEOs" } } }, "auth_ref": ["r789", "r799", "r809", "r833", "r841"] }, "ecd_NonPeoNeoAvgCompActuallyPaidAmt": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": 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Includes selling, general and administrative expense." } } }, "auth_ref": [] }, "us-gaap_OperatingExpensesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingExpensesAbstract", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Operating Expenses [Abstract]", "terseLabel": "Operating expenses:" } } }, "auth_ref": [] }, "us-gaap_OperatingIncomeLoss": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingIncomeLoss", "crdr": "credit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Operating Income (Loss)", "totalLabel": "Operating income (loss)", "documentation": "The net result for the period of deducting operating expenses from operating revenues." } } }, "auth_ref": ["r165", "r708", "r887", "r888", "r889", "r890", "r891"] }, "us-gaap_OperatingLeaseCost": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseCost", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureLeasesComponentsOfOperatingLeaseCostDetails"], "lang": { "en-us": { "role": { "label": "Operating Lease, Cost", "terseLabel": "Operating lease cost", "documentation": "Amount of single lease cost, calculated by allocation of remaining cost of lease over remaining lease term. Includes, but is not limited to, single lease cost, after impairment of right-of-use asset, calculated by amortization of remaining right-of-use asset and accretion of lease liability." } } }, "auth_ref": ["r518", "r746"] }, "us-gaap_OperatingLeaseLiability": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseLiability", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureLeasesMaturitiesOfOperatingLeaseLiabilitiesDetails"], "lang": { "en-us": { "role": { "label": "Operating Lease, Liability", "verboseLabel": "Present value of lease liabilities", "documentation": "Present value of lessee's discounted obligation for lease payments from operating lease." } } }, "auth_ref": ["r514"] }, "us-gaap_OperatingLeaseLiabilityCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseLiabilityCurrent", "crdr": "credit", "presentation": 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necessary for its intended use." } } }, "auth_ref": ["r515", "r519"] }, "us-gaap_OperatingLeaseRightOfUseAsset": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseRightOfUseAsset", "crdr": "debit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Operating Lease, Right-of-Use Asset", "terseLabel": "Operating lease right-of-use assets", "documentation": "Amount of lessee's right to use underlying asset under operating lease." } } }, "auth_ref": ["r513"] }, "aeis_OperatingLeaseRightOfUseAssetDecrease": { "xbrltype": "monetaryItemType", "nsuri": "http://www.aei.com/20240930", "localname": "OperatingLeaseRightOfUseAssetDecrease", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureLeasesOtherLeaseCostInformationDetails"], "lang": { "en-us": { "role": { "documentation": "Decrease in amount of lessee's right to use underlying asset under 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Includes, but is not limited to, preferred shares issued, repurchased, and held as treasury shares. Excludes preferred shares classified as debt." } } }, "auth_ref": ["r94", "r366"] }, "us-gaap_PreferredStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockSharesOutstanding", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheetsParenthetical"], "lang": { "en-us": { "role": { "label": "Preferred Stock, Shares Outstanding", "terseLabel": "Preferred stock, shares outstanding (in shares)", "documentation": "Aggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. 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Note: elements for number of nonredeemable preferred shares, par value and other disclosure concepts are in another section within stockholders' equity." } } }, "auth_ref": ["r94", "r575", "r747"] }, "us-gaap_ProceedsFromIncomeTaxRefunds": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromIncomeTaxRefunds", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureSupplementalCashFlowInformationAndOtherDisclosuresDetails"], "lang": { "en-us": { "role": { "label": "Proceeds from Income Tax Refunds", "verboseLabel": "Cash received from income taxes", "documentation": "Amount of income tax refund received from tax jurisdiction." } } }, "auth_ref": ["r30", "r124", "r877", "r966", "r967"] }, "us-gaap_ProceedsFromIssuanceOfWarrants": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromIssuanceOfWarrants", "crdr": "debit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Proceeds from Issuance of Warrants", "terseLabel": "Proceeds from sale of warrants", "documentation": "The cash inflow from issuance of rights to purchase common shares at predetermined price (usually issued together with corporate debt)." } } }, "auth_ref": ["r7"] }, "us-gaap_ProceedsFromLinesOfCredit": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromLinesOfCredit", "crdr": "debit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Proceeds from Lines of Credit", "verboseLabel": "Proceeds from long-term borrowings", "documentation": "Amount of cash inflow from contractual arrangement with the lender, including but not limited to, letter of credit, standby letter of credit and revolving credit arrangements." } } }, "auth_ref": ["r27", "r878"] }, "us-gaap_ProductLiabilityContingencyLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProductLiabilityContingencyLineItems", "presentation": ["http://www.aei.com/role/DisclosureWarrantiesNarrativeDetails"], "lang": { "en-us": { "role": { "label": "Product Liability Contingency [Line Items]", "terseLabel": "Product Liability Contingency [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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and furniture and fixtures." } } }, "auth_ref": ["r11", "r524", "r572", "r579", "r747"] }, "ecd_PvpTable": { "xbrltype": "stringItemType", "nsuri":
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Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity." } } }, "auth_ref": ["r428", "r696", "r709", "r1006"] }, "ecd_RestatementDateAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "RestatementDateAxis", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"], "lang": { "en-us": { "role": { "label": "Restatement Determination Date [Axis]", "terseLabel": "Restatement Determination Date:" } } }, "auth_ref": ["r783", "r793", "r803", "r835"] }, "ecd_RestatementDeterminationDate": { "xbrltype": "dateItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "RestatementDeterminationDate", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"], "lang": { "en-us": { "role": { "label": "Restatement Determination Date", "terseLabel": "Restatement Determination Date" } } }, "auth_ref": ["r784", "r794", "r804", "r836"] }, "ecd_RestatementDoesNotRequireRecoveryTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "RestatementDoesNotRequireRecoveryTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"], "lang": { "en-us": { "role": { "label": "Restatement Does Not Require Recovery [Text Block]", "terseLabel": "Restatement does not require Recovery" } } }, "auth_ref": ["r791", "r801", "r811", "r843"] }, "us-gaap_RestrictedStockUnitsRSUMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestrictedStockUnitsRSUMember", "presentation": ["http://www.aei.com/role/DisclosureStockBasedCompensationDetails", "http://www.aei.com/role/DisclosureStockBasedCompensationSummaryOfRestrictedStockUnitsActivityDetails"], "lang": { "en-us": { "role": { "label": "Restricted Stock Units (RSUs)", "documentation": "Share instrument which is convertible to stock or an equivalent amount of cash, after a specified period of time or when specified performance conditions are met." } } }, "auth_ref": [] }, "us-gaap_RestructuringAndRelatedCostExpectedCost1": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestructuringAndRelatedCostExpectedCost1", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesNarrativeDetails"], "lang": { "en-us": { "role": { "label": "Restructuring and Related Cost, Expected Cost", "terseLabel": "Expected additional charges", "documentation": "Amount expected to be recognized in earnings for the specified restructuring cost." } } }, "auth_ref": ["r300", "r303", "r305", "r307"] }, "us-gaap_RestructuringCharges": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestructuringCharges", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesChangesInRestructuringLiabilitiesDetails", "http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesChangesInRestructuringPlansDetails", "http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesRestructuringAssetImpairmentsAndOtherChargesDetails"], "lang": { "en-us": { "role": { "label": "Restructuring Charges", "terseLabel": "Restructuring", "verboseLabel": "Cost incurred and charged to expense", "documentation": "Amount of expenses associated with exit or disposal activities pursuant to an authorized plan. Excludes expenses related to a discontinued operation or an asset retirement obligation." } } }, "auth_ref": ["r10", "r304", "r305", "r923"] }, "us-gaap_RestructuringCostAndReserveAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestructuringCostAndReserveAxis", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesChangesInRestructuringPlansDetails"], "lang": { "en-us": { "role": { "label": "Restructuring Type [Axis]", "documentation": "Information by type of restructuring cost." } } }, "auth_ref": ["r300", "r301", "r305", "r306"] }, "us-gaap_RestructuringCostAndReserveLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestructuringCostAndReserveLineItems", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesChangesInRestructuringLiabilitiesDetails", "http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesChangesInRestructuringPlansDetails", "http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesNarrativeDetails"], "lang": { "en-us": { "role": { "label": "Restructuring Cost and Reserve [Line Items]", "terseLabel": "Restructuring Cost and Reserve [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r300", "r301", "r302", "r303", "r305", "r306", "r307"] }, "us-gaap_RestructuringCostsAndAssetImpairmentCharges": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestructuringCostsAndAssetImpairmentCharges", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesRestructuringAssetImpairmentsAndOtherChargesDetails", "http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Restructuring Costs and Asset Impairment Charges", "terseLabel": "Restructuring, asset impairments, and other charges", "totalLabel": "Total restructuring, asset impairments, and other charges", "documentation": "Amount, after cash payment, of expenses associated with exit or disposal activities pursuant to an authorized plan and expenses resulting from the write-down of assets. Excludes expenses related to a business combination, a discontinued operation or an asset retirement obligation." } } }, "auth_ref": ["r10"] }, "us-gaap_RestructuringCostsAndAssetImpairmentChargesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestructuringCostsAndAssetImpairmentChargesAbstract", "lang": { "en-us": { "role": { "label": "RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGES" } } }, "auth_ref": [] }, "us-gaap_RestructuringImpairmentAndOtherActivitiesDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestructuringImpairmentAndOtherActivitiesDisclosureTextBlock", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherCharges"], "lang": { "en-us": { "role": { "label": "Restructuring, Impairment, and Other Activities Disclosure [Text Block]", "terseLabel": "RESTRUCTURING, ASSET IMPAIRMENTS, AND OTHER CHARGES", "documentation": "The entire disclosure of costs incurred for restructuring including, but not limited to, exit and disposal activities, remediation, implementation, integration, asset impairment, and charges against earnings from the write-down of assets." } } }, "auth_ref": [] }, "us-gaap_RestructuringPlanAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestructuringPlanAxis", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesChangesInRestructuringLiabilitiesDetails", "http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesChangesInRestructuringPlansDetails", "http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesNarrativeDetails"], "lang": { "en-us": { "role": { "label": "Restructuring Plan [Axis]", "documentation": "Information by individual restructuring plan." } } }, "auth_ref": [] }, "us-gaap_RestructuringPlanDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestructuringPlanDomain", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesChangesInRestructuringLiabilitiesDetails", "http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesChangesInRestructuringPlansDetails", "http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesNarrativeDetails"], "lang": { "en-us": { "role": { "label": "Restructuring Plan [Domain]", "documentation": "Identification of the individual restructuring plans." } } }, "auth_ref": [] }, "us-gaap_RestructuringReserve": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestructuringReserve", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesChangesInRestructuringLiabilitiesDetails"], "lang": { "en-us": { "role": { "label": "Restructuring Reserve", "periodEndLabel": "Ending balance", "periodStartLabel": "Beginning balance", "documentation": "Carrying amount (including both current and noncurrent portions of the accrual) as of the balance sheet date pertaining to a specified type of cost associated with exit from or disposal of business activities or restructuring pursuant to a duly authorized plan." } } }, "auth_ref": ["r301", "r306"] }, "us-gaap_RestructuringReserveCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestructuringReserveCurrent", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesNarrativeDetails"], "lang": { "en-us": { "role": { "label":~~

"Restructuring Reserve, Current", "terseLabel": "Restructuring reserve", "documentation": "Carrying amount as of the balance sheet date of known and estimated obligations associated with exit from or disposal of business activities or restructurings pursuant to a duly authorized plan, which are expected to be paid in the next twelve months or in the normal operating cycle if longer. Costs of such activities include those for one-time termination benefits, termination of an operating lease or other contract, consolidating or closing facilities, relocating employees, and costs associated with an ongoing benefit arrangement, but excludes costs associated with the retirement of a long-lived asset." } } }, "auth_ref": ["r868", "r924", "r925"] }, "us-gaap_RestructuringReserveRollForward": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestructuringReserveRollForward", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesChangesInRestructuringLiabilitiesDetails"], "lang": { "en-us": { "role": { "label": "Restructuring Reserve [Roll Forward]", "terseLabel": "Restructuring Reserve [Roll Forward]", "documentation": "A roll forward is a reconciliation of a concept from the beginning of a period to the end of a period." } } }, "auth_ref": [] }, "us-gaap_RestructuringReserveTranslationAdjustment": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestructuringReserveTranslationAdjustment", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesChangesInRestructuringLiabilitiesDetails"], "lang": { "en-us": { "role": { "label": "Restructuring Reserve, Foreign Currency Translation Gain (Loss)", "terseLabel": "Foreign currency translation", "documentation": "Amount of foreign currency translation gain (loss) which decreases (increases) the restructuring reserve." } } }, "auth_ref": ["r924", "r925"] }, "us-gaap_RetainedEarningsAccumulatedDeficit": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RetainedEarningsAccumulatedDeficit", "crdr": "credit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Retained Earnings (Accumulated Deficit)", "verboseLabel": "Retained earnings", "documentation": "Amount of accumulated undistributed earnings (deficit)." } } }, "auth_ref": ["r97", "r142", "r577", "r600", "r602", "r607", "r627", "r747"] }, "us-gaap_RetainedEarningsMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RetainedEarningsMember", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfStockholdersEquity"], "lang": { "en-us": { "role": { "label": "Retained Earnings", "documentation": "Accumulated undistributed earnings (deficit)." } } }, "auth_ref": ["r175", "r217", "r218", "r219", "r221", "r226", "r228", "r230", "r269", "r270", "r293", "r437", "r438", "r446", "r447", "r448", "r450", "r454", "r455", "r466", "r468", "r469", "r471", "r473", "r510", "r512", "r597", "r599", "r610", "r1044"] }, "us-gaap_RevenueFromContractWithCustomerAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueFromContractWithCustomerAbstract", "lang": { "en-us": { "role": { "label": "REVENUE" } } }, "auth_ref": [] }, "us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueFromContractWithCustomerExcludingAssessedTax", "crdr": "credit", "presentation": ["http://www.aei.com/role/DisclosureRevenueDetails", "http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Revenue from Contract with Customer, Excluding Assessed Tax", "terseLabel": "Revenue", "verboseLabel": "Revenue, net", "documentation": "Amount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise." } } }, "auth_ref": ["r163", "r164", "r246", "r249", "r250", "r256", "r258", "r259", "r260", "r262", "r377", "r378", "r533"] }, "us-gaap_RevenueFromContractWithCustomerTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueFromContractWithCustomerTextBlock", "presentation": ["http://www.aei.com/role/DisclosureRevenue"], "lang": { "en-us": { "role": { "label": "Revenue from Contract with Customer [Text Block]", "terseLabel": "REVENUE", "documentation": "The entire disclosure of revenue from contract with customer to transfer good or service and to transfer nonfinancial asset. Includes, but is not limited to, disaggregation of revenue, credit loss recognized from contract with customer, judgment and change in judgment related to contract with customer, and asset recognized from cost incurred to obtain or fulfill contract with customer. Excludes insurance and lease contracts." } } }, "auth_ref": ["r174", "r369", "r370", "r371", "r372", "r373", "r374", "r375", "r376", "r379"] }, "us-gaap_RevolvingCreditFacilityMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevolvingCreditFacilityMember", "presentation": ["http://www.aei.com/role/DisclosureLongTermDebtCreditFacilityDetails"], "lang": { "en-us": { "role": { "label": "Revolving Credit Facility", "documentation": "Arrangement in which loan proceeds can continuously be obtained following repayments, but the total amount borrowed cannot exceed a specified maximum amount." } } }, "auth_ref": [] }, "us-gaap_RightOfUseAssetObtainedInExchangeForOperatingLeaseLiability": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RightOfUseAssetObtainedInExchangeForOperatingLeaseLiability", "crdr": "debit", "presentation": ["http://www.aei.com/role/DisclosureLeasesOtherLeaseCostInformationDetails"], "lang": { "en-us": { "role": { "label": "Right-of-Use Asset Obtained in Exchange for Operating Lease Liability", "terseLabel": "Right-of-use assets obtained in exchange for operating lease liabilities", "documentation": "Amount of increase in right-of-use asset obtained in exchange for operating lease liability." } } }, "auth_ref": ["r520", "r746"] }, "ecd_Rule10b51ArrAdoptedFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "Rule10b51ArrAdoptedFlag", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements"], "lang": { "en-us": { "role": { "label": "Rule 10b5-1 Arrangement Adopted [Flag]", "terseLabel": "Rule 10b5-1 Arrangement Adopted" } } }, "auth_ref": ["r852"] }, "ecd_Rule10b51ArrTrmntdFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "Rule10b51ArrTrmntdFlag", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements"], "lang": { "en-us": { "role": { "label": "Rule 10b5-1 Arrangement Terminated [Flag]", "terseLabel": "Rule 10b5-1 Arrangement Terminated" } } }, "auth_ref": ["r852"] }, "us-gaap_SalesRevenueNetMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SalesRevenueNetMember", "presentation": ["http://www.aei.com/role/DisclosureRevenueDetails", "http://www.aei.com/role/DisclosureRevenueSignificantCustomersDetails"], "lang": { "en-us": { "role": { "label": "Revenue Benchmark", "documentation": "Revenue from sale of product and rendering of service and other sources of income, when it serves as benchmark in concentration of risk calculation." } } }, "auth_ref": ["r262", "r866"] }, "srt_ScenarioUnspecifiedDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ScenarioUnspecifiedDomain", "presentation": ["http://www.aei.com/role/DisclosureAcquisitionsNarrativeDetails"], "lang": { "en-us": { "role": { "label": "Scenario [Domain]" } } }, "auth_ref": ["r231", "r388", "r863", "r884"] }, "us-gaap_ScheduleOfAccumulatedOtherComprehensiveIncomeLossTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfAccumulatedOtherComprehensiveIncomeLossTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureStockholdersEquityAndEarningsPerShareTables"], "lang": { "en-us": { "role": { "label": "Schedule of Accumulated Other Comprehensive Income (Loss) [Table Text Block]", "terseLabel": "Summary of the components of and changes in accumulated other comprehensive income (loss), net of income taxes", "documentation": "Tabular disclosure of the components of accumulated other comprehensive income (loss)." } } }, "auth_ref": ["r24", "r990", "r991"] }, "us-gaap_ScheduleOfAntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfAntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareTable", "presentation": ["http://www.aei.com/role/DisclosureStockholdersEquityAndEarningsPerShareEarningsPerShareDetails"], "lang": { "en-us": { "role": { "label": "Antidilutive Security, Excluded EPS Calculation [Table]", "terseLabel": "Schedule of Antidilutive Securities Excluded from Computation of Earnings Per Share [Table]", "documentation": "Disclosure of information about security that could potentially dilute basic earnings per share (EPS) in future that was not included in calculation of diluted EPS." } } }, "auth_ref": ["r35"] }, "us-gaap_ScheduleOfBusinessAcquisitionsByAcquisitionContingentConsiderationTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfBusinessAcquisitionsByAcquisitionContingentConsiderationTextBlock", "presentation": ["http://www.aei.com/role/DisclosureAcquisitionsTables"], "lang": { "en-us": { "role": { "label": "Schedule of Business Acquisitions by Acquisition, Contingent Consideration [Table Text Block]", "terseLabel": "Schedule of consideration paid", "documentation": "Tabular disclosure of contingent payment arrangements including the terms that will result in payment and the accounting treatment that will be followed if such contingencies occur, including the potential impact on earnings per share if contingencies are to be settled in common stock of the entity. The description also may include the period over which amounts are expected to be paid, and changes in the amount since the previous reporting period. This also includes contingent options and commitments." } } }, "auth_ref": [] }, "us-gaap_ScheduleOfBusinessAcquisitionsByAcquisitionTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfBusinessAcquisitionsByAcquisitionTable", "presentation": ["http://www.aei.com/role/DisclosureAcquisitionsAssetsAcquiredAndLiabilitiesAssumedDetails", "http://www.aei.com/role/DisclosureAcquisitionsConsiderationPaidDetails", "http://www.aei.com/role/DisclosureAcquisitionsNarrativeDetails"], "lang": { "en-us": { "role": { "label": "Schedule of Business Acquisitions, by Acquisition [Table]", "terseLabel": "Schedule of Business Acquisitions, by Acquisition [Table]", "documentation": "Disclosure of information about business combination. Includes, but is not limited to, recognized asset and liability." } } }, "auth_ref": ["r57", "r59", "r451"] }, "us-gaap_ScheduleOfCashFlowSupplementalDisclosuresTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfCashFlowSupplementalDisclosuresTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureSupplementalCashFlowInformationAndOtherDisclosuresTables"], "lang": { "en-us": { "role": { "label": "Schedule of Cash Flow, Supplemental Disclosures [Table Text Block]", "terseLabel": "Schedule of supplemental cash flow information", "documentation": "Tabular disclosure of supplemental cash flow information for the periods presented." } } }, "auth_ref": [] }, "aeis_ScheduleOfChargesRelatedToRestructuringPlansTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://www.aei.com/20240930", "localname": "ScheduleOfChargesRelatedToRestructuringPlansTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesTables"], "lang": { "en-us": { "role": { "documentation": "Tabular disclosure of information pertaining to changes related to restructuring plans.", "label": "Schedule of Charges Related to Restructuring Plans [Table Text Block]", "terseLabel": "Schedule of charges related to restructuring plans" } } }, "auth_ref": [] }, "us-gaap_ScheduleOfComponentsOfIncomeTaxExpenseBenefitTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfComponentsOfIncomeTaxExpenseBenefitTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureIncomeTaxTables"], "lang": { "en-us": { "role": { "label": "Schedule of Components of Income Tax Expense (Benefit) [Table Text Block]", "verboseLabel": "Schedule of tax provision (benefit) and the effective tax rate for income (loss) from continuing operations", "documentation": "Tabular disclosure of the components of income tax expense attributable to continuing operations for each year presented including, but not limited to: current tax expense (benefit), deferred tax expense (benefit), investment tax credits, government grants, the benefits of operating loss carryforwards, tax expense that results from allocating certain tax benefits either directly to contributed capital or to reduce goodwill or other noncurrent intangible assets of an acquired entity, adjustments of a deferred tax liability or asset for enacted changes in tax laws or rates or a change in the tax status of the entity, and adjustments of the beginning-of-the-year balances of a valuation allowance because of a change in circumstances that causes a change in judgment about the realizability of the related deferred tax asset in future years." } } }, "auth_ref": ["r968"] }, "us-gaap_ScheduleOfDebtTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfDebtTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureLongTermDebtTables"], "lang": { "en-us": { "role": { "label": "Schedule of Debt [Table Text Block]", "terseLabel": "Schedule of long-term debt", "documentation": "Tabular disclosure of information pertaining to short-term and long-debt instruments or arrangements, including but not limited to identification of terms, features, collateral requirements and other information necessary to a fair presentation." } } }, "auth_ref": [] }, "us-gaap_ScheduleOfEntityWideRevenueByMajorCustomersByReportingSegmentsTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfEntityWideRevenueByMajorCustomersByReportingSegmentsTable", "presentation": ["http://www.aei.com/role/DisclosureRevenueSignificantCustomersDetails"], "lang": { "en-us": { "role": { "label": "Schedule of Revenue by Major Customers, by Reporting Segments [Table]", "documentation": "Disclosure of information about the extent of the entity's reliance on its major customers." } } }, "auth_ref": ["r131"] }, "us-gaap_ScheduleOfFairValueAssetsAndLiabilitiesMeasuredOnRecurringBasisTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfFairValueAssetsAndLiabilitiesMeasuredOnRecurringBasisTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureFairValueMeasurementsTables"], "lang": { "en-us": { "role": { "label": "Schedule of Fair Value, Assets and Liabilities Measured on Recurring Basis [Table Text Block]", "terseLabel": "Schedule of assets and liabilities measured at fair value on a recurring basis", "documentation": "Tabular disclosure of assets and liabilities, including [financial] instruments measured at fair value that are classified in stockholders' equity, if any, that are measured at fair value on a recurring basis. The disclosures contemplated herein include the fair value measurements at the reporting date by the level within the fair value hierarchy in which the fair value measurements in their entirety fall, segregating fair value measurements using quoted prices in active markets for identical assets (Level 1), significant other observable inputs (Level 2), and significant unobservable inputs (Level 3)." } } }, "auth_ref": ["r973", "r974"] }, "us-gaap_ScheduleOfFiniteLivedIntangibleAssetsTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfFiniteLivedIntangibleAssetsTable", "presentation": ["http://www.aei.com/role/DisclosureIntangibleAssetsAndGoodwillDetails"], "lang": { "en-us": { "role": { "label": "Intangible Asset, Finite-Lived [Table]", "terseLabel": "Schedule of Finite-Lived Intangible Assets [Table]", "documentation": "Disclosure of information about finite-lived intangible asset. Excludes indefinite-lived intangible asset." } } }, "auth_ref": ["r280", "r287", "r290", "r291", "r292", "r534", "r696", "r713"] }, "us-gaap_ScheduleOfFiniteLivedIntangibleAssetsTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfFiniteLivedIntangibleAssetsTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureIntangibleAssetsAndGoodwillTables"], "lang": { "en-us": { "role": { "label": "Schedule of Finite-Lived Intangible Assets [Table Text Block]", "terseLabel": "Schedule of intangible assets", "documentation": "Tabular disclosure of assets, excluding financial assets and goodwill, lacking physical substance with a finite life, by either major class or business segment." } } }, "auth_ref": ["r713", "r913"] }, "us-gaap_ScheduleOfGoodwillTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfGoodwillTextBlock", "presentation": 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changes in the liability for accruals related to product warranties issued during the reporting period, the aggregate changes in the liability for accruals related to preexisting warranties (including adjustments related to changes in estimates), and the ending balance of the aggregate product warranty liability." } } }, "auth_ref": ["r321"] }, "us-gaap_ScheduleOfRecognizedIdentifiedAssetsAcquiredAndLiabilitiesAssumedTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfRecognizedIdentifiedAssetsAcquiredAndLiabilitiesAssumedTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureAcquisitionsTables"], "lang": { "en-us": { "role": { "label": "Schedule of Recognized Identified Assets Acquired and Liabilities Assumed [Table Text Block]", "terseLabel": "Schedule of fair value of assets acquired and liabilities assumed", "documentation": "Tabular disclosure of the amounts recognized as of the acquisition date for each major class of assets acquired and liabilities assumed. May include but not limited to the following: (a) acquired receivables; (b) contingencies recognized at the acquisition date; and (c) the fair value of noncontrolling interests in the acquiree." } } }, "auth_ref": ["r148"] }, "us-gaap_ScheduleOfRestructuringAndRelatedCostsTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfRestructuringAndRelatedCostsTable", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesChangesInRestructuringLiabilitiesDetails", "http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesChangesInRestructuringPlansDetails", "http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesNarrativeDetails"], "lang": { "en-us": { "role": { "label": "Restructuring Cost [Table]", "terseLabel": "Schedule of Restructuring and Related Costs [Table]", "documentation": "Disclosure of information about restructuring cost. Includes, but is not limited to, expected cost, cost incurred, statement of income caption that includes restructuring cost recognized, and amount of restructuring reserve." } } }, "auth_ref": ["r300", "r301", "r302", "r303", "r305", "r306", "r307"] }, "us-gaap_ScheduleOfRestructuringAndRelatedCostsTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfRestructuringAndRelatedCostsTextBlock", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesTables"], "lang": { "en-us": { "role": { "label": "Restructuring and Related Costs [Table Text Block]", "terseLabel": "Schedule of restructuring, asset impairments, and other charges", "documentation": "Tabular disclosure of costs incurred for restructuring including, but not limited to, exit and disposal activities, remediation, implementation, integration, asset impairment, and charges against earnings from the write-down of assets." } } }, "auth_ref": ["r43", "r134", "r135"] }, "us-gaap_ScheduleOfRestructuringReserveByTypeOfCostTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfRestructuringReserveByTypeOfCostTextBlock", "presentation": ["http://www.aei.com/role/DisclosureRestructuringAssetImpairmentsAndOtherChargesTables"], "lang": { "en-us": { "role": { "label": "Schedule of Restructuring Reserve by Type of Cost [Table Text Block]", "terseLabel": "Schedule of changes in restructuring liabilities", "documentation": "Tabular disclosure of an entity's restructuring reserve that occurred during the period associated with the exit from or disposal of business activities or restructurings for each major type of cost. This element may also include a description of any reversal and other adjustment made during the period to the amount of an accrued liability for restructuring activities. This element may be used to encapsulate the roll forward presentations of an entity's restructuring reserve by type of cost and in total, and explanation of changes that occurred in the period." } } }, "auth_ref": ["r44", "r136"] }, "us-gaap_ScheduleOfShareBasedCompensationActivityTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri":

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Includes, but is not limited to, outstanding award at beginning and end of year, granted, exercised, forfeited, and weighted-average grant date fair value." } } }, "auth_ref": ["r18", "r19", "r145"] }, "us-gaap_ScheduleOfShareBasedCompensationArrangementByShareBasedPaymentAwardRestrictedStockUnitsVestedAndExpectedToVestTableTextBlock { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfShareBasedCompensationArrangementByShareBasedPaymentAwardRestrictedStockUnitsVestedAndExpectedToVestTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureStockBasedCompensationTables"], "lang": { "en-us": { "role": { "label": "Share-Based Compensation Arrangements by Share-Based Payment Award, Restricted Stock Units, Vested and Expected to Vest [Table Text Block]", "terseLabel": "Summary of changes in RSUs", "documentation": "Tabular disclosure of number, weighted-average exercise price or conversion ratio, aggregate intrinsic value, and weighted-average remaining contractual term for outstanding restricted stock units that are fully vested and expected to vest. Includes, but is not limited to, unvested restricted stock units for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur." } } }, "auth_ref": ["r146"] }, "us-gaap_ScheduleOfShareBasedCompensationArrangementsByShareBasedPaymentAwardTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfShareBasedCompensationArrangementsByShareBasedPaymentAwardTable", "presentation": ["http://www.aei.com/role/DisclosureStockBasedCompensationSummaryOfRestrictedStockUnitsActivityDetails", "http://www.aei.com/role/DisclosureStockBasedCompensationSummaryOfStockOptionActivityDetails"], "lang": { "en-us": { "role": { "label": "Schedule of Share-Based Compensation Arrangements by Share-Based Payment Award [Table]", "terseLabel": "Schedule of Share-based Compensation Arrangements by Share-based Payment Award [Table]", "documentation": "Disclosure of information about share-based payment arrangement." } } }, "auth_ref": ["r390", "r392", "r395", "r396", "r397", "r398", "r399", "r400", "r401", "r402", "r403", "r404", "r405", "r406", "r407", "r408", "r409", "r410", "r411", "r412", "r413", "r414", "r415", "r416", "r417", "r418", "r419", "r420"] }, "us-gaap_ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureStockBasedCompensationTables"], "lang": { "en-us": { "role": { "label": "Share-Based Payment Arrangement, Option, Activity [Table Text Block]", "terseLabel": "Summary of changes in stock options", "documentation": "Tabular disclosure for stock option plans. Includes, but is not limited to, outstanding awards at beginning and end of year, grants, exercises, forfeitures, and weighted-average grant date fair value." } } }, "auth_ref": ["r18", "r19", "r144"] }, "us-gaap_ScheduleOfTreasuryStockByClassTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfTreasuryStockByClassTextBlock", "presentation": ["http://www.aei.com/role/DisclosureStockholdersEquityAndEarningsPerShareTables"], "lang": { "en-us": { "role": { "label": "Class of Treasury Stock [Table Text Block]", "terseLabel": "Schedule of shares repurchases", "documentation": "Tabular disclosure of treasury stock, including, but not limited to, average cost per share, description of share repurchase program, shares repurchased, shares held for each class of treasury stock." } } }, "auth_ref": ["r47", "r48", "r49", "r50"] }, "us-gaap_ScheduleOfWeightedAverageNumberOfSharesTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfWeightedAverageNumberOfSharesTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureStockholdersEquityAndEarningsPerShareTables"], "lang": { "en-us": { "role": { "label": "Schedule of Weighted Average Number of Shares [Table Text Block]", "terseLabel": "Summary of earnings per share", "documentation": "Tabular disclosure of the weighted average number of shares used in calculating basic net earnings per share (or unit) and diluted earnings per share (or unit)." } } }, "auth_ref": ["r34"] }, "us-gaap_ScheduleofFiniteLivedIntangibleAssetsFutureAmortizationExpenseTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleofFiniteLivedIntangibleAssetsFutureAmortizationExpenseTableTextBlock", "presentation": ["http://www.aei.com/role/DisclosureIntangibleAssetsAndGoodwillTables"], "lang": { "en-us": { "role": { "label": "Schedule of Finite-Lived Intangible Assets, Future Amortization Expense [Table Text Block]", "terseLabel": "Schedule of estimated future amortization expense related to intangible assets", "documentation": "Tabular disclosure of the amount of amortization expense expected to be recorded in succeeding fiscal years for finite-lived intangible assets." } } }, "auth_ref": ["r713", "r915"] }, "dei_Security12bTitle": { "xbrltype": "securityTitleItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "Security12bTitle", "presentation": ["http://www.aei.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Title of 12(b) Security", "documentation": "Title of a 12(b) registered security." } } }, "auth_ref": ["r777"] }, "dei_SecurityExchangeName": { "xbrltype": "edgarExchangeCodeItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "SecurityExchangeName", "presentation": ["http://www.aei.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Security Exchange Name", "documentation": "Name of the Exchange on which a security is registered." } } }, "auth_ref": ["r779"] }, "srt_SegmentGeographicalDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "SegmentGeographicalDomain", "presentation": ["http://www.aei.com/role/DisclosureLeasesOtherLeaseCostInformationDetails", "http://www.aei.com/role/DisclosureRevenueDetails"], "lang": { "en-us": { "role": { "label": "Geographical [Domain]" } } }, "auth_ref": ["r260", "r261", "r536", "r537", "r538", "r539", "r540", "r541", "r542", "r543", "r544", "r545", "r546", "r547", "r548", "r549", "r550", "r551", "r552", "r553", "r554", "r555", "r556", "r557", "r558", "r559", "r560", "r561", "r562", "r563", "r564", "r565", "r612", "r613", "r614", "r667", "r669", "r672", "r680", "r682", "r685", "r686", "r687", "r688", "r689", "r690", "r691", "r692", "r693", "r699", "r721", "r748", "r749", "r750", "r751", "r752", "r753", "r754", "r755", "r760", "r766", "r939", "r1011", "r1014", "r1015", "r1017", "r1018", "r1019", "r1020", "r1021", "r1022", "r1023", "r1024", "r1025", "r1026", "r1027", "r1028", "r1029", "r1030", "r1031", "r1032", "r1033", "r1034", "r1035", "r1036", "r1037", "r1038", "r1039", "r1040", "r1041"] }, "us-gaap_SellingGeneralAndAdministrativeExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SellingGeneralAndAdministrativeExpense", "crdr": "debit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Selling, General and Administrative Expense", "terseLabel": "Selling, general, and administrative", "documentation": "The aggregate total costs related to selling a firm's product and services, as well as all other general and administrative expenses. Direct selling expenses (for example, credit, warranty, and advertising) are expenses that can be directly linked to the sale of specific products. Indirect selling expenses are expenses that cannot be directly linked to the sale of specific products, for example telephone expenses, Internet, and postal charges. General and administrative expenses include salaries of non-sales personnel, rent, utilities, communication, etc." } } }, "auth_ref": ["r116"] }, "aeis_SemiconductorEquipmentMember": { "xbrltype": "domainItemType", "nsuri": "http://www.aei.com/20240930", "localname": "SemiconductorEquipmentMember", "presentation": ["http://www.aei.com/role/DisclosureRevenueDetails"], "lang": { "en-us": { "role": { "documentation": "Represents semiconductor equipment.", "label": "Semiconductor Equipment" } } }, "auth_ref": [] }, "aeis_ServiceAndOtherMember": { "xbrltype": "domainItemType", "nsuri": "http://www.aei.com/20240930", "localname": "ServiceAndOtherMember", "presentation": ["http://www.aei.com/role/DisclosureRevenueDetails"], "lang": { "en-us": { "role": { "documentation": "Represents services and other revenue.", "label": "Service and Other [Member]", "terseLabel": "Services and other" } } }, "auth_ref": [] }, "us-gaap_ShareBasedCompensation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensation", "crdr": "debit", "presentation": ["http://www.aei.com/role/StatementUnauditedConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Share-Based Payment Arrangement, Noncash Expense", "verboseLabel": "Stock-based compensation", "documentation": "Amount of noncash expense for share-based payment arrangement." } } }, "auth_ref": ["r9"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardAwardVestingPeriod1": { "xbrltype": "durationItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardAwardVestingPeriod1", "presentation": ["http://www.aei.com/role/DisclosureAcquisitionsNarrativeDetails", "http://www.aei.com/role/DisclosureStockBasedCompensationDetails"], "lang": { "en-us": { "role": { "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Award Vesting Period", "verboseLabel": "Vesting period", "documentation": "Period over which grantee's right to exercise award under share-based payment arrangement is no longer contingent on satisfaction of service or performance condition, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. Includes, but is not limited to, combination of market, performance or service condition." } } }, "auth_ref": ["r733"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeitedInPeriod": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeitedInPeriod", "presentation": ["http://www.aei.com/role/DisclosureStockBasedCompensationSummaryOfRestrictedStockUnitsActivityDetails"], "lang": { "en-us": { "role": { "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Forfeited in Period", "negatedLabel": "RSUs forfeited", "documentation": "The number of equity-based payment instruments, excluding stock (or unit) options, that were forfeited during the reporting period." } } }, "auth_ref": ["r411"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeituresWeightedAverageGrantDa { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeituresWeightedAverageGrantDateFai "presentation": ["http://www.aei.com/role/DisclosureStockBasedCompensationSummaryOfRestrictedStockUnitsActivityDetails"], "lang": { "en-us": { "role": { "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Forfeitures, Weighted Average Grant Date Fair Value", "verboseLabel": "Weighted Average Grant Date Fair Value, Forfeited", "documentation": "Weighted average fair value as of the grant date of equity-based award plans other than stock (unit) option plans that were not exercised or put into effect as a result of the occurrence of a terminating event." } } }, "auth_ref": ["r411"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrantsInPeriod": { "xbrltype":~~

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