

UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

Form 10-Q

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended March 31, 2024

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the Transition Period From \_\_\_\_\_ To \_\_\_\_\_

Commission File Number: 001-13836

JOHNSON CONTROLS INTERNATIONAL PLC

(Exact name of registrant as specified in its charter )

Ireland

98-0390500

(Jurisdiction of Incorporation)

(I.R.S. Employer Identification No.)

One Albert Quay, Cork, Ireland, T12 X8N6

(353) 21-423-5000

(Address of Principal Executive Offices and Postal Code)

(Registrant's Telephone Number)

Securities Registered Pursuant to Section 12(b) of the Exchange Act:

<u>Title of Each Class</u>	<u>Trading Symbol</u>	<u>Name of Each Exchange on Which Registered</u>
Ordinary Shares, Par Value \$0.01	JCI	New York Stock Exchange
3.625% Senior Notes due 2024	JCI24A	New York Stock Exchange
1.375% Notes due 2025	JCI25A	New York Stock Exchange
3.900% Notes due 2026	JCI26A	New York Stock Exchange
0.375% Senior Notes due 2027	JCI27	New York Stock Exchange
3.000% Senior Notes due 2028	JCI28	New York Stock Exchange
1.750% Senior Notes due 2030	JCI30	New York Stock Exchange
2.000% Sustainability-Linked Senior Notes due 2031	JCI31	New York Stock Exchange
1.000% Senior Notes due 2032	JCI32	New York Stock Exchange
4.900% Senior Notes due 2032	JCI32A	New York Stock Exchange
4.250% Senior Notes due 2035	JCI35	New York Stock Exchange
6.000% Notes due 2036	JCI36A	New York Stock Exchange
5.70% Senior Notes due 2041	JCI41B	New York Stock Exchange
5.250% Senior Notes due 2041	JCI41C	New York Stock Exchange
4.625% Senior Notes due 2044	JCI44A	New York Stock Exchange
5.125% Notes due 2045	JCI45B	New York Stock Exchange
6.950% Debentures due December 1, 2045	JCI45A	New York Stock Exchange
4.500% Senior Notes due 2047	JCI47	New York Stock Exchange
4.950% Senior Notes due 2064	JCI64A	New York Stock Exchange

Indicate by check mark whether the registrant (1) has 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 the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes  No

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 "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer  Accelerated filer  Smaller reporting company

Non-accelerated filer  Emerging growth company

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 Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  No

Indicate the number of shares outstanding of each of the issuer's classes of common stock, as of the latest practicable date.

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Class

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Ordinary Shares, \$0.01 par value per share

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Ordinary Shares Outstanding at March 31, 2024

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673,675,568

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JOHNSON CONTROLS INTERNATIONAL PLC

FORM 10-Q

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**PART I. FINANCIAL INFORMATION**

**ITEM 1. FINANCIAL STATEMENTS**

**Johnson Controls International plc**  
**Consolidated Statements of Income**  
(in millions, except per share data; unaudited)

	Three Months Ended		Six Months Ended	
	March 31,		March 31,	
	2024	2023	2024	2023
<b>Net sales</b>				
Products and systems	\$ 4,985	\$ 5,083	\$ 9,474	\$ 9,639
Services	1,714	1,603	3,319	3,115
	<u>6,699</u>	<u>6,686</u>	<u>12,793</u>	<u>12,754</u>
<b>Cost of sales</b>				
Products and systems	3,459	3,516	6,621	6,629
Services	1,059	929	1,999	1,793
	<u>4,518</u>	<u>4,445</u>	<u>8,620</u>	<u>8,422</u>
<b>Gross profit</b>	2,181	2,241	4,173	4,332
<b>Selling, general and administrative expenses</b>	2,251	1,579	3,764	3,150
<b>Restructuring and impairment costs</b>	254	418	293	763
<b>Net financing charges</b>	93	71	192	138
<b>Equity income</b>	56	50	118	112
<b>Income (loss) before income taxes</b>	(361)	223	42	393
<b>Income tax (benefit) provision</b>	(127)	49	(128)	63
<b>Net income (loss)</b>	(234)	174	170	330
<b>Less: Income attributable to noncontrolling interests</b>	43	41	73	79
<b>Net income (loss) attributable to Johnson Controls</b>	<u>\$ (277)</u>	<u>\$ 133</u>	<u>\$ 97</u>	<u>\$ 251</u>
<b>Earnings (loss) per share attributable to Johnson Controls</b>				
Basic	\$ (0.41)	\$ 0.19	\$ 0.14	\$ 0.37
Diluted	(0.41)	0.19	0.14	0.36

**The accompanying notes are an integral part of the consolidated financial statements.**

**Johnson Controls International plc**  
**Consolidated Statements of Comprehensive Income**  
(in millions; unaudited)

	Three Months Ended		Six Months Ended	
	March 31,		March 31,	
	2024	2023	2024	2023
Net income (loss)	\$ (234)	\$ 174	\$ 170	\$ 330
Other comprehensive income (loss), net of tax:				
Foreign currency translation adjustments	(95)	10	(33)	100
Realized and unrealized gains (losses) on derivatives	27	20	(15)	3
Pension and postretirement plans	(1)	—	(2)	(1)
Other comprehensive income (loss)	<u>(69)</u>	<u>30</u>	<u>(50)</u>	<u>102</u>
Total comprehensive income (loss)	<u>(303)</u>	<u>204</u>	<u>120</u>	<u>432</u>
Comprehensive income attributable to noncontrolling interests:				
Net income	43	41	73	79
Other comprehensive income (loss), net of tax:				
Foreign currency translation adjustments	(3)	11	(2)	42
Realized and unrealized losses on derivatives	4	1	—	(5)
Other comprehensive income (loss)	1	12	(2)	37
Comprehensive income attributable to noncontrolling interests	<u>44</u>	<u>53</u>	<u>71</u>	<u>116</u>
Comprehensive income (loss) attributable to Johnson Controls	<u><u>\$ (347)</u></u>	<u><u>\$ 151</u></u>	<u><u>\$ 49</u></u>	<u><u>\$ 316</u></u>

**The accompanying notes are an integral part of the consolidated financial statements.**

**Johnson Controls International plc**  
**Consolidated Statements of Financial Position**  
(in millions, except par value; unaudited)

	March 31, 2024	September 30, 2023
<b>Assets</b>		
Cash and cash equivalents	\$ 843	\$ 835
Accounts receivable, less allowance for expected credit losses of \$118 and \$90, respectively	6,688	6,006
Inventories	2,991	2,776
Other current assets	1,355	1,120
Current assets	11,877	10,737
Property, plant and equipment - net	3,104	3,136
Goodwill	17,757	17,936
Other intangible assets - net	4,717	4,888
Investments in partially-owned affiliates	1,172	1,056
Other noncurrent assets	4,830	4,489
Total assets	<u>\$ 43,457</u>	<u>\$ 42,242</u>
<b>Liabilities and Equity</b>		
Short-term debt	\$ 2,210	\$ 385
Current portion of long-term debt	1,165	645
Accounts payable	4,019	4,268
Accrued compensation and benefits	779	958
Deferred revenue	2,331	1,996
Other current liabilities	3,095	2,832
Current liabilities	13,599	11,084
Long-term debt	7,348	7,818
Pension and postretirement benefits	251	278
Other noncurrent liabilities	5,418	5,368
Long-term liabilities	13,017	13,464
Commitments and contingencies (Note 21)		
Ordinary shares, \$0.01 par value	7	7
Ordinary A shares, €1.00 par value	—	—
Preferred shares, \$0.01 par value	—	—
Ordinary shares held in treasury, at cost	(1,264)	(1,240)
Capital in excess of par value	17,411	17,349
Retained earnings	507	1,384
Accumulated other comprehensive loss	(1,003)	(955)
Shareholders' equity attributable to Johnson Controls	15,658	16,545
Noncontrolling interests	1,183	1,149
Total equity	16,841	17,694
Total liabilities and equity	<u>\$ 43,457</u>	<u>\$ 42,242</u>

The accompanying notes are an integral part of the consolidated financial statements.



**Johnson Controls International plc**  
**Consolidated Statements of Cash Flows**  
(in millions; unaudited)

	Six Months Ended March 31,	
	2024	2023
<b>Operating Activities</b>		
Net income attributable to Johnson Controls	\$ 97	\$ 251
Income attributable to noncontrolling interests	73	79
Net income	<u>170</u>	<u>330</u>
Adjustments to reconcile net income to cash provided (used) by operating activities:		
Depreciation and amortization	467	409
Pension and postretirement benefit income	(20)	(3)
Pension and postretirement contributions	(13)	(26)
Equity in earnings of partially-owned affiliates, net of dividends received	(102)	(55)
Deferred income taxes	(400)	(168)
Noncash restructuring and impairment charges	253	691
Equity-based compensation	56	61
Other - net	(38)	(87)
Changes in assets and liabilities, excluding acquisitions and divestitures:		
Accounts receivable	(659)	(360)
Inventories	(228)	(493)
Other assets	(204)	(169)
Restructuring reserves	(60)	(17)
Accounts payable and accrued liabilities	358	(155)
Accrued income taxes	<u>(29)</u>	<u>60</u>
Cash provided (used) by operating activities	<u>(449)</u>	<u>18</u>
<b>Investing Activities</b>		
Capital expenditures	(225)	(255)
Acquisition of businesses, net of cash acquired	1	(89)
Other - net	<u>13</u>	<u>30</u>
Cash used by investing activities	<u>(211)</u>	<u>(314)</u>
<b>Financing Activities</b>		
Net proceeds from borrowings with maturities less than three months	1,519	1,288
Proceeds from debt	422	316
Repayments of debt	(163)	(536)
Stock repurchases and retirements	(474)	(247)
Payment of cash dividends	(504)	(481)
Employee equity-based compensation withholding taxes	(24)	(32)
Dividends paid to noncontrolling interests	(51)	(72)
Other - net	<u>(48)</u>	<u>26</u>
Cash provided by financing activities	<u>677</u>	<u>262</u>
Effect of exchange rate changes on cash, cash equivalents and restricted cash	19	8
<b>Increase (decrease) in cash, cash equivalents and restricted cash</b>		
Cash, cash equivalents and restricted cash at beginning of period	36	(26)
Cash, cash equivalents and restricted cash at end of period	924	2,066
Less: Restricted cash	960	2,040
<b>Cash and cash equivalents at end of period</b>	<b>\$ 843</b>	<b>\$ 1,975</b>

**The accompanying notes are an integral part of the consolidated financial statements.**

**Johnson Controls International plc**  
**Consolidated Statements of Shareholders' Equity**  
(in millions, except per share data; unaudited)

	Three Months Ended		Six Months Ended	
	March 31,		March 31,	
	2024	2023	2024	2023
<b>Shareholders' Equity Attributable to Johnson Controls</b>				
Beginning Balance	\$ 16,698	\$ 16,046	\$ 16,545	\$ 16,268
<b>Ordinary Shares</b> - Beginning and ending balance	7	7	7	7
<b>Ordinary Shares Held in Treasury, at Cost</b>				
Beginning balance	(1,263)	(1,233)	(1,240)	(1,203)
Employee equity-based compensation withholding taxes	(1)	(2)	(24)	(32)
Ending balance	<u>(1,264)</u>	<u>(1,235)</u>	<u>(1,264)</u>	<u>(1,235)</u>
<b>Capital in Excess of Par Value</b>				
Beginning balance	17,381	17,262	17,349	17,224
Share-based compensation expense	20	25	40	44
Other, including options exercised	10	8	22	27
Ending balance	<u>17,411</u>	<u>17,295</u>	<u>17,411</u>	<u>17,295</u>
<b>Retained Earnings</b>				
Beginning balance	1,506	874	1,384	1,151
Net income (loss) attributable to Johnson Controls	(277)	133	97	251
Cash dividends declared	(248)	(245)	(500)	(486)
Repurchases and retirements of ordinary shares	(474)	(93)	(474)	(247)
Ending balance	<u>507</u>	<u>669</u>	<u>507</u>	<u>669</u>
<b>Accumulated Other Comprehensive Income (Loss)</b>				
Beginning balance	(933)	(864)	(955)	(911)
Other comprehensive income (loss)	(70)	18	(48)	65
Ending balance	<u>(1,003)</u>	<u>(846)</u>	<u>(1,003)</u>	<u>(846)</u>
Ending Balance	<u>15,658</u>	<u>15,890</u>	<u>15,658</u>	<u>15,890</u>
<b>Shareholders' Equity Attributable to Noncontrolling Interests</b>				
Beginning Balance	1,176	1,197	1,149	1,134
Comprehensive income attributable to noncontrolling interests	44	53	71	116
Dividends attributable to noncontrolling interests	(39)	(62)	(39)	(62)
Other, including options exercised	2	—	2	—
Ending Balance	<u>1,183</u>	<u>1,188</u>	<u>1,183</u>	<u>1,188</u>
<b>Total Shareholders' Equity</b>	<b>\$ 16,841</b>	<b>\$ 17,078</b>	<b>\$ 16,841</b>	<b>\$ 17,078</b>
<b>Cash Dividends Declared per Ordinary Share</b>	<b>\$ 0.37</b>	<b>\$ 0.36</b>	<b>\$ 0.74</b>	<b>\$ 0.71</b>

The accompanying notes are an integral part of the consolidated financial statements.



**Johnson Controls International plc**  
**Notes to Consolidated Financial Statements**  
**March 31, 2024**  
**(unaudited)**

## **1. BASIS OF PRESENTATION**

The consolidated financial statements include the consolidated accounts of Johnson Controls International plc, a public limited company organized under the laws of Ireland, and its subsidiaries (Johnson Controls International plc and all its subsidiaries, hereinafter collectively referred to as the "Company" or "Johnson Controls"). In the opinion of management, the accompanying unaudited consolidated financial statements contain all adjustments (which include normal recurring adjustments) necessary to state fairly the financial position, results of operations and cash flows for the periods presented. 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 the rules and regulations of the United States Securities and Exchange Commission ("SEC"). These consolidated financial statements should be read in conjunction with the audited financial statements and notes thereto included in the Company's Annual Report on Form 10-K for the year ended September 30, 2023 filed with the SEC on December 14, 2023. The results of operations for the three and six month periods ended March 31, 2024 are not necessarily indicative of results for the Company's 2024 fiscal year because of seasonal and other factors.

### **Nature of Operations**

Johnson Controls International plc, headquartered in Cork, Ireland, is a global leader in smart, healthy and sustainable buildings, serving a wide range of customers in more than 150 countries. The Company's products, services, systems and solutions advance the safety, comfort and intelligence of spaces to serve people, places and the planet. The Company is committed to helping its customers win and creating greater value for all of its stakeholders through its strategic focus on buildings.

The Company is a global leader in engineering, manufacturing, commissioning and retrofitting building products and systems, including residential and commercial heating, ventilating, air-conditioning ("HVAC") equipment, industrial refrigeration systems, controls, security systems, fire-detection systems and fire-suppression solutions. The Company further serves customers by providing technical services, including maintenance, management, repair, retrofit and replacement of equipment (in the HVAC, industrial refrigeration, controls, security and fire-protection space), energy-management consulting and data-driven "smart building" services and solutions powered by its OpenBlue software platform and capabilities. The Company partners with customers by leveraging its broad product portfolio and digital capabilities powered by OpenBlue, together with its direct channel service and solutions capabilities, to deliver outcome-based solutions across the lifecycle of a building that address customers' needs to improve energy efficiency, enhance security, create healthy environments and reduce greenhouse gas emissions.

### **Principles of Consolidation**

The consolidated financial statements include the consolidated accounts of Johnson Controls International plc and its subsidiaries that are consolidated in conformity with U.S. GAAP. All significant intercompany transactions have been eliminated. The results of companies acquired or disposed of during the reporting period are included in the consolidated financial statements from the effective date of acquisition or up to the date of disposal. Investments in partially-owned affiliates are accounted for by the equity method when the Company exercises significant influence, which typically occurs when its ownership interest exceeds 20%, and the Company does not have a controlling interest.

The Company consolidates variable interest entities ("VIE") when it has the power to direct the significant activities of the entity and the obligation to absorb losses or receive benefits from the entity that may be significant. The Company did not have any material consolidated or nonconsolidated VIE's for the presented reporting periods.

## **2. NEW ACCOUNTING STANDARDS**

### **Recently Adopted Accounting Pronouncements**

In September 2022, the FASB issued ASU 2022-04, "Disclosure of Supplier Finance Program Obligations," which is intended to enhance the transparency surrounding the use of supplier finance programs. Supplier finance programs may

**Johnson Controls International plc**  
**Notes to Consolidated Financial Statements**  
**March 31, 2024**  
**(unaudited)**

also be referred to as reverse factoring, payables finance, or structured payables arrangements. The amendments require a buyer that uses supplier finance programs to make annual disclosures about the program's key terms, the balance sheet presentation of related amounts, the confirmed amount outstanding at the end of the period, and associated rollforward information. Only the amount outstanding at the end of the period must be disclosed in interim periods. The Company adopted the new disclosures, other than the rollforward disclosure, as required at the beginning of fiscal 2024. The rollforward disclosure will be adopted as required at the beginning of fiscal 2025.

The Company maintains agreements with third-party financial institutions who offer voluntary supply chain financing ("SCF") programs to its suppliers. The SCF programs enable suppliers to sell their receivables to third-party financial institutions and receive payments earlier than the negotiated commercial terms between the suppliers and the Company, which generally range from 90 to 120 days. Suppliers sell receivables to third-party financial institutions on terms negotiated between the supplier and the respective third-party financial institution. The Company remains obligated to make payments under the terms of the original commercial arrangement regardless of whether the supplier receivable is sold, and does not pledge any assets as security or provide other forms of guarantees for the committed payment to the third-party financial institutions.

Amounts outstanding related to SCF programs are included in accounts payable in the consolidated statements of financial position. Accounts payable included in the SCF programs were approximately \$561 million and \$566 million as of March 31, 2024, and September 30, 2023, respectively.

**Recently Issued Accounting Pronouncements**

In December 2023, the FASB issued ASU 2023-09, "Income Taxes (Topic 740): Improvements to Income Tax Disclosures," which is intended to enhance the transparency about income tax information through improvements to income tax disclosures primarily related to the rate reconciliation and income taxes paid information. The amendments require that on an annual basis, entities disclose specific categories in the rate reconciliation and provide additional information for reconciling items that meet a quantitative threshold. In addition, the amendments require that entities disclose additional information about income taxes paid as well as additional disclosures of pretax income and income tax expense, and remove the requirement to disclose certain items that are no longer considered cost beneficial or relevant. The Company expects to adopt the new annual disclosures as required for fiscal 2026.

In November 2023, the FASB issued ASU 2023-07, "Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures," which is intended to improve reportable segment disclosures, primarily through enhanced disclosures about significant segment expenses. In addition, the amendments enhance interim disclosure requirements, clarify circumstances in which an entity can disclose multiple segment measures of profit or loss, provide new segment disclosure requirements for entities with a single reportable segment and contain other disclosure requirements. The Company expects to adopt the new annual disclosures as required for fiscal 2025 and the interim disclosures as required beginning with the first quarter of fiscal 2026.

Other recently issued accounting pronouncements are not expected to have a material impact on the Company's consolidated financial statements.

**3. ACQUISITIONS AND DIVESTITURES**

During the six months ended March 31, 2023, the Company completed certain acquisitions for a combined purchase price, net of cash acquired, of \$115 million, of which \$89 million was paid as of March 31, 2023. In connection with the acquisitions, the Company recorded goodwill of \$ 53 million within the Global Products segment and \$14 million within the Building Solutions EMEA/LA segment.

**Johnson Controls International plc**  
**Notes to Consolidated Financial Statements**  
**March 31, 2024**  
**(unaudited)**

**4. ASSETS AND LIABILITIES HELD FOR SALE**

During the three and six months ended March 31, 2023, the Company recorded impairment charges primarily due to reductions in the estimated fair value of its Global Retail business of \$210 million and \$438 million, respectively. During the six months ended March 31, 2023, the Company also recorded an impairment charge for a business in the Building Solutions Asia Pacific segment of \$60 million. Both businesses were classified as held for sale as of March 31, 2023. All of the impairments were recorded within restructuring and impairment costs in the consolidated statements of income.

No assets and liabilities were classified as held for sale as of March 31, 2024 or September 30, 2023.

**5. REVENUE RECOGNITION**

**Disaggregated Revenue**

The following tables present the Company's revenues disaggregated by segment and by Products & Systems and Services revenue (in millions):

	Three Months Ended March 31,					
	2024			2023		
	Products & Systems	Services	Total	Products & Systems	Services	Total
Building Solutions North America	\$ 1,700	\$ 1,039	\$ 2,739	\$ 1,554	\$ 966	\$ 2,520
Building Solutions EMEA/LA	572	492	1,064	582	449	1,031
Building Solutions Asia Pacific	308	183	491	479	188	667
Global Products	2,405	—	2,405	2,468	—	2,468
<b>Total</b>	<b>\$ 4,985</b>	<b>\$ 1,714</b>	<b>\$ 6,699</b>	<b>\$ 5,083</b>	<b>\$ 1,603</b>	<b>\$ 6,686</b>

	Six Months Ended March 31,					
	2024			2023		
	Products & Systems	Services	Total	Products & Systems	Services	Total
Building Solutions North America	\$ 3,218	\$ 2,008	\$ 5,226	\$ 3,005	\$ 1,882	\$ 4,887
Building Solutions EMEA/LA	1,144	958	2,102	1,134	872	2,006
Building Solutions Asia Pacific	645	353	998	952	361	1,313
Global Products	4,467	—	4,467	4,548	—	4,548
<b>Total</b>	<b>\$ 9,474</b>	<b>\$ 3,319</b>	<b>\$ 12,793</b>	<b>\$ 9,639</b>	<b>\$ 3,115</b>	<b>\$ 12,754</b>

The following table presents further disaggregation of Global Products segment revenues by product type (in millions):

	Three Months Ended March 31,			Six Months Ended March 31,		
	2024		2023	2024		2023
	Products & Systems	Services	Total	Products & Systems	Services	Total
HVAC	\$ 1,683	\$ 1,757	\$ 3,440	\$ 3,101	\$ 1,882	\$ 4,887
Fire & Security	607	623	1,230	1,154	872	2,006
Industrial Refrigeration	115	88	203	212	—	158
<b>Total</b>	<b>\$ 2,405</b>	<b>\$ 2,468</b>	<b>\$ 4,873</b>	<b>\$ 4,467</b>	<b>\$ 3,115</b>	<b>\$ 4,548</b>

**Johnson Controls International plc**  
**Notes to Consolidated Financial Statements**  
**March 31, 2024**  
**(unaudited)**

**Contract Balances**

Contract assets relate to the Company's right to consideration for performance obligations satisfied but not billed. Contract liabilities relate to customer payments received in advance of satisfaction of performance obligations under the contract. Contract balances are classified as assets or liabilities on a contract-by-contract basis at the end of each reporting period.

The following table presents the location and amount of contract balances in the Company's consolidated statements of financial position (in millions):

	Location of contract balances	March 31, 2024	September 30, 2023
Contract assets - current	Accounts receivable - net	\$ 2,063	\$ 2,370
Contract assets - noncurrent	Other noncurrent assets	5	12
Contract liabilities - current	Deferred revenue	2,331	1,996
Contract liabilities - noncurrent	Other noncurrent liabilities	310	297

For the three months ended March 31, 2024 and 2023, the Company recognized revenue of \$ 372 million and \$319 million, respectively, that was included in the contract liability balance at the end of the prior fiscal year. For the six months ended March 31, 2024 and 2023, the Company recognized revenue of \$1,261 million and \$1,165 million, respectively, that was included in the contract liability balance at the end of the prior fiscal year.

**Performance Obligations**

A performance obligation is a distinct good, service, or a bundle of goods and services promised in a contract. A contract's transaction price is allocated to each distinct performance obligation and recognized as revenue when, or as, the performance obligation is satisfied. When contracts with customers require significant and complex integration, contain goods or services which are highly interdependent or interrelated, or are goods or services which significantly modify or customize other promises in the contracts and, therefore, are not distinct, then the entire contract is accounted for as a single performance obligation. For any contracts with multiple performance obligations, the contract's transaction price is allocated to each performance obligation based on the estimated relative standalone selling price of each distinct good or service in the contract. For product sales, each product sold to a customer typically represents a distinct performance obligation.

Performance obligations are satisfied at a point in time or over time. The timing of satisfying the performance obligation is typically stipulated by the terms of the contract. As of March 31, 2024, the aggregate amount of the transaction price allocated to remaining performance obligations was approximately \$21.2 billion, of which approximately 66% is expected to be recognized as revenue over the next two years. The remaining performance obligations expected to be recognized in revenue beyond two years primarily relate to large, multi-purpose contracts to construct hospitals, schools and other governmental buildings, which include services to be performed over the building's lifetime, with initial contract terms of 25 to 35 years. Future contract modifications could affect both the timing and the amount of the remaining performance obligations. The Company excludes the value of remaining performance obligations for service contracts with an original expected duration of one year or less.

**Costs to Obtain or Fulfill a Contract**

The Company recognizes the incremental costs incurred to obtain or fulfill a contract with a customer as an asset when these costs are recoverable. These costs consist primarily of sales commissions and design costs that relate to a contract or an anticipated contract that the Company expects to recover. Costs to obtain or fulfill a contract are capitalized and amortized over the period of contract performance.

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The following table presents the location and amount of costs to obtain or fulfill a contract recorded in the Company's consolidated statements of financial position (in millions):

	March 31, 2024	September 30, 2023
Other current assets	\$ 204	\$ 156
Other noncurrent assets	263	224
<b>Total</b>	<b>\$ 467</b>	<b>\$ 380</b>

During the three months ended March 31, 2024 and 2023, the Company recognized amortization expense of \$77 million and \$61 million, respectively, related to costs to obtain or fulfill a contract. During the six months ended March 31, 2024 and 2023, the Company recognized amortization expense of \$134 million and \$122 million, respectively, related to costs to obtain or fulfill a contract. There were no impairment losses recognized in the three and six months ended March 31, 2024 and 2023.

## 6. ACCOUNTS RECEIVABLE

The Company sold \$702 million of accounts receivable under factoring agreements during the six months ended March 31, 2024. No amounts were sold during the three months ended March 31, 2024 as the Company discontinued its receivable factoring program. The Company sold \$427 million and \$836 million of accounts receivable during the three and six months ended March 31, 2023, respectively. Previously sold receivables still outstanding were \$82 million and \$681 million as of March 31, 2024 and September 30, 2023, respectively.

## 7. INVENTORIES

Inventories consisted of the following (in millions):

	March 31, 2024	September 30, 2023
Raw materials and supplies	\$ 1,218	\$ 1,203
Work-in-process	267	226
Finished goods	1,506	1,347
<b>Inventories</b>	<b>\$ 2,991</b>	<b>\$ 2,776</b>

## 8. GOODWILL AND OTHER INTANGIBLE ASSETS

The following table summarizes changes in the carrying amount of goodwill in each of the Company's reportable segments (in millions):

	Building Solutions North America	Building Solutions EMEA/LA	Building Solutions Asia Pacific	Global Products	Total
Goodwill	\$ 10,040	\$ 1,932	\$ 1,179	\$ 5,750	\$ 18,901
Accumulated impairment loss	(659)	(47)	—	(259)	(965)
Balance at September 30, 2023	9,381	1,885	1,179	5,491	17,936
Impairments	—	(230)	—	—	(230)
Foreign currency translation and other <sup>(1)</sup>	11	44	1	(5)	51
<b>Balance at March 31, 2024</b>	<b>\$ 9,392</b>	<b>\$ 1,699</b>	<b>\$ 1,180</b>	<b>\$ 5,486</b>	<b>\$ 17,757</b>

<sup>(1)</sup> Includes measurement period adjustments

The Company tests goodwill for impairment annually as of July 31 or more frequently if events or changes in circumstances indicate the asset might be impaired. During the second quarter of fiscal 2024, the Company determined a

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triggering event had occurred for one of its reporting units due to year-to-date results and projections for the remainder of fiscal 2024 being lower than the forecast used in the previous annual goodwill impairment test, and a quantitative test of goodwill for possible impairment was necessary. As a result of the goodwill impairment test, the Company recorded a non-cash impairment charge of \$230 million within restructuring and impairment cost in the consolidated statements of income, which was determined by comparing the carrying amount of the reporting unit to its fair value. The Company used a discounted cash flow model to estimate the fair value of the reporting unit. The primary assumptions used in the model were management's internal projections of future cash flows, the weighted-average cost of capital and the long-term growth rate, which are classified as Level 3 inputs within the fair value hierarchy as defined in ASC 820, "Fair Value Measurement." The reporting unit whose goodwill was impaired was previously disclosed as being at risk of impairment in the Company's Annual Report on Form 10-K for the year-ended September 30, 2023. It is possible that future changes in circumstances, including an increase in the discount rate or a decrease in the revenue growth rates, could result in an additional non-cash impairment charge of the remaining \$215 million of goodwill for this reporting unit. There were no other triggering events requiring an impairment assessment be conducted in the six months ended March 31, 2024.

Other intangible assets, primarily from business acquisitions, consisted of (in millions):

	March 31, 2024			September 30, 2023		
	Gross Carrying Amount	Accumulated Amortization	Net	Gross Carrying Amount	Accumulated Amortization	Net
<b>Definite-lived intangible assets</b>						
Technology	\$ 1,592	\$ (884)	\$ 708	\$ 1,575	\$ (806)	\$ 769
Customer relationships	3,056	(1,616)	1,440	3,047	(1,496)	1,551
Miscellaneous	938	(487)	451	889	(435)	454
	<u>5,586</u>	<u>(2,987)</u>	<u>2,599</u>	<u>5,511</u>	<u>(2,737)</u>	<u>2,774</u>
<b>Indefinite-lived intangible assets</b>						
Trademarks/trade names	2,118	—	2,118	2,114	—	2,114
<b>Total intangible assets</b>	<b>\$ 7,704</b>	<b>\$ (2,987)</b>	<b>\$ 4,717</b>	<b>\$ 7,625</b>	<b>\$ (2,737)</b>	<b>\$ 4,888</b>

Amortization of other intangible assets for the three months ended March 31, 2024 and 2023 was \$ 125 million and \$104 million, respectively. Amortization of other intangible assets for the six months ended March 31, 2024 and 2023 was \$247 million and \$208 million, respectively.

## 9. LEASES

The following table presents supplemental consolidated statement of financial position information (in millions):

	Location of lease balances	March 31, 2024		September 30, 2023	
Operating lease right-of-use assets	Other noncurrent assets	\$ 1,342		\$ 1,389	
Operating lease liabilities - current	Other current liabilities		317		318
Operating lease liabilities - noncurrent	Other noncurrent liabilities		1,039		1,086

The following table presents supplemental noncash operating lease activity (in millions):

	Six Months Ended March 31,	
	2024	2023
Right-of-use assets obtained in exchange for operating lease liabilities	\$ 135	\$ 215

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**10. DEBT AND FINANCING ARRANGEMENTS**

Short-term debt consisted of the following (in millions):

	March 31, 2024	September 30, 2023
Commercial paper	\$ 1,784	\$ 200
Term loans	424	159
Bank borrowings	2	26
	<hr/> <hr/> <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/> <hr/> <hr/>
Weighted average interest rate on short-term debt outstanding	\$ 2,210	\$ 385
	4.7 %	5.1 %

As of March 31, 2024, the Company had syndicated committed revolving credit facilities of \$ 2.5 billion which is scheduled to expire in December 2028 and \$500 million which is scheduled to expire in December 2024. There were no draws on the facilities as of March 31, 2024.

In April 2024, the Company and its wholly-owned subsidiary, Tyco Fire & Security Finance S.C.A, co-issued \$ 700 million unsecured, unsubordinated senior notes with an interest rate of 5.50% which is due April 2029.

**11. DERIVATIVE INSTRUMENTS AND HEDGING ACTIVITIES**

The Company selectively uses derivative instruments to reduce market risk associated with changes in foreign currency, commodities and interest rates. Under Company policy, the use of derivatives is restricted to those intended for hedging purposes; the use of any derivative instrument for speculative purposes is strictly prohibited. A description of each type of derivative utilized by the Company to manage risk is included in the following paragraphs. In addition, refer to Note 12, "Fair Value Measurements," of the notes to the consolidated financial statements for information related to the fair value measurements and valuation methods utilized by the Company for each derivative type.

**Cash Flow Hedges**

The Company has global operations and participates in foreign exchange markets to minimize its risk of loss from fluctuations in foreign currency exchange rates. The Company selectively hedges anticipated transactions that are subject to foreign exchange rate risk primarily using foreign currency exchange forward contracts. The Company hedges 70% to 90% of the notional amount of each of its known foreign exchange transactional exposures.

The Company enters into forward-starting interest-rate swaps in conjunction with anticipated note issuances. Forward-starting interest-rate swaps are terminated when the anticipated notes are issued. Accumulated amounts recorded in accumulated other comprehensive income (loss) ("AOCL") as of the date of the note issuance are amortized to interest expense over the life of the related note to reflect the difference between the swap's reference rate and the fixed rate of the note.

During the three months ended March 31, 2024, the Company terminated \$ 600 million of forward-starting interest-rate swaps related to an anticipated note issuance that was no longer highly likely to occur. Accumulated amounts previously recorded in AOCL were not material and were recognized as net financing charges in the consolidated statements of income when the swaps were terminated.

The Company selectively hedges anticipated transactions that are subject to commodity price risk, primarily using commodity hedge contracts, to minimize overall price risk associated with the Company's purchases of copper and aluminum in cases where commodity price risk cannot be naturally offset or hedged through supply base fixed price contracts. Commodity risks are systematically managed pursuant to policy guidelines. The maturities of the commodity hedge contracts coincide with the expected purchase of the commodities.

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The Company had the following outstanding contracts to hedge forecasted commodity purchases (in metric tons):

Commodity	Volume Outstanding as of	
	March 31, 2024	September 30, 2023
Copper	3,447	2,812
Aluminum	7,085	5,976

Cash flow hedges under ASC 815, "Derivatives and Hedging," that hedge gains or losses due to changes in fair value are initially recorded as a component of AOCI and are subsequently reclassified into earnings when the hedged transactions occur and affect earnings. These contracts were highly effective in hedging the variability in future cash flows attributable to changes in currency exchange rates and commodity prices during the three and six months ended March 31, 2024 and 2023.

**Net Investment Hedges**

The Company enters into cross-currency interest rate swaps and foreign currency denominated debt obligations to selectively hedge portions of its net investment in non-U.S. subsidiaries. The currency effects of the cross-currency interest rate swaps and debt obligations are reflected in the AOCI account within shareholders' equity attributable to Johnson Controls ordinary shareholders where they offset gains and losses recorded on the Company's net investments globally.

The following table summarizes net investment hedges (in billions):

	March 31,		September 30,	
	2024	2023	2024	2023
Euro-denominated bonds designated as net investment hedges in Europe	€	2.9	€	2.9
Yen-denominated debt designated as a net investment hedge in Japan	¥	30	¥	30
US dollar vs. Yen cross-currency interest rate swap designated as a net investment hedge in Japan	¥	14	¥	14

**Derivatives Not Designated as Hedging Instruments**

The Company holds certain foreign currency forward contracts not designated as hedging instruments under ASC 815 to hedge foreign currency exposure resulting from monetary assets and liabilities denominated in nonfunctional currencies. The changes in fair value of these foreign currency forward exchange derivatives are recorded in the consolidated statements of income where they offset foreign currency transactional gains and losses on the nonfunctional currency denominated assets and liabilities being hedged.

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**Fair Value of Derivative Instruments**

The following table presents the location and fair values of derivative instruments and hedging activities included in the Company's consolidated statements of financial position (in millions):

	Derivatives and Hedging Activities				Derivatives and Hedging Activities			
	Designated as Hedging Instruments		Not Designated as Hedging Instruments		Designated as Hedging Instruments		Not Designated as Hedging Instruments	
	March 31, 2024	September 30, 2023	March 31, 2024	September 30, 2023	March 31, 2024	September 30, 2023	March 31, 2024	September 30, 2023
<b>Other current assets</b>								
Foreign currency exchange derivatives	\$ 18	\$ 16	\$ 7	\$ 13				
Interest rate swaps	—	22	—	—				
Commodity derivatives	2	—	—	—				
<b>Other noncurrent assets</b>								
Cross-currency interest rate swap	7	5	—	—				
<b>Total assets</b>	<b>\$ 27</b>	<b>\$ 43</b>	<b>\$ 7</b>	<b>\$ 13</b>				
<b>Other current liabilities</b>								
Foreign currency exchange derivatives	\$ 17	\$ 20	—	\$ 5				
Commodity derivatives	—	2	—	—				
<b>Long-term debt</b>								
Foreign currency denominated debt	3,302	3,253	—	—				
<b>Total liabilities</b>	<b>\$ 3,319</b>	<b>\$ 3,275</b>	<b>\$ —</b>	<b>\$ 5</b>				

**Counterparty Credit Risk**

The use of derivative financial instruments exposes the Company to counterparty credit risk. The Company has established policies and procedures to limit the potential for counterparty credit risk, including establishing limits for credit exposure and continually assessing the creditworthiness of counterparties. As a matter of practice, the Company deals with major banks worldwide having strong investment grade long-term credit ratings. To further reduce the risk of loss, the Company generally enters into International Swaps and Derivatives Association ("ISDA") master netting agreements with substantially all of its counterparties. The Company enters into ISDA master netting agreements with counterparties that permit the net settlement of amounts owed under the derivative contracts. The master netting agreements generally provide for net settlement of all outstanding contracts with a counterparty in the case of an event of default or a termination event. The Company has not elected to offset the fair value positions of the derivative contracts recorded in the consolidated statements of financial position.

The Company's derivative contracts do not contain any credit risk related contingent features and do not require collateral or other security to be furnished by the Company or the counterparties. The Company's exposure to credit risk associated with its derivative instruments is measured on an individual counterparty basis, as well as by groups of counterparties that share similar attributes. The Company does not anticipate any non-performance by any of its counterparties, and the concentration of risk with financial institutions does not present significant credit risk to the Company.

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The gross and net amounts of derivative assets and liabilities were as follows (in millions):

	Fair Value of Assets		Fair Value of Liabilities	
	March 31, 2024	September 30, 2023	March 31, 2024	September 30, 2023
Gross amount recognized	\$ 34	\$ 56	\$ 3,319	\$ 3,280
Gross amount eligible for offsetting	(10)	(19)	(10)	(19)
Net amount	<b>\$ 24</b>	<b>\$ 37</b>	<b>\$ 3,309</b>	<b>\$ 3,261</b>

**Derivatives Impact on the Statements of Income and Statements of Comprehensive Income**

The following table presents the pre-tax gains (losses) recorded in other comprehensive income (loss) related to cash flow hedges (in millions):

Derivatives in Cash Flow Hedging Relationships	Three Months Ended March 31,				Six Months Ended March 31,	
	2024	2023	2024	2023		
Foreign currency exchange derivatives	\$ 15	\$ 9	\$ 2	\$ (12)		
Commodity derivatives	—	3	1	7		
Interest rate swaps	14	5	(21)	5		
<b>Total</b>	<b>\$ 29</b>	<b>\$ 17</b>	<b>\$ (18)</b>	<b>\$ —</b>		

The following table presents the location and amount of the pre-tax gains (losses) on cash flow hedges reclassified from AOCI into the Company's consolidated statements of income (in millions):

Derivatives in Cash Flow Hedging Relationships	Location of Gain (Loss) Reclassified from AOCI into Income	Three Months Ended March 31,		Six Months Ended March 31,	
		2024	2023	2024	2023
Foreign currency exchange derivatives	Cost of sales	\$ (2)	\$ (5)	\$ (3)	\$ 4
Commodity derivatives	Cost of sales	(1)	(2)	(4)	(8)
<b>Total</b>		<b>\$ (3)</b>	<b>\$ (7)</b>	<b>\$ (7)</b>	<b>\$ (4)</b>

The following table presents the location and amount of pre-tax gains (losses) on derivatives not designated as hedging instruments recognized in the Company's consolidated statements of income (in millions):

Derivatives Not Designated as Hedging Instruments	Location of Gain (Loss) Recognized in Income on Derivative	Three Months Ended March 31,		Six Months Ended March 31,	
		2024	2023	2024	2023
Foreign currency exchange derivatives	Cost of sales	\$ 2	\$ (6)	\$ (3)	\$ (8)
Foreign currency exchange derivatives	SG&A	(1)	—	(1)	—
Foreign currency exchange derivatives	Net financing charges	59	15	16	(64)
<b>Total</b>		<b>\$ 60</b>	<b>\$ 9</b>	<b>\$ 12</b>	<b>\$ (72)</b>

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The following table presents pre-tax gains (losses) on net investment hedges recorded as foreign currency translation adjustments ("CTA") within other comprehensive income (loss) (in millions):

	Three Months Ended		Six Months Ended	
	March 31,		March 31,	
	2024	2023	2024	2023
Net investment hedges	\$ 98	\$ (60)	\$ (47)	\$ (329)

No gains or losses were reclassified from CTA into income during the three and six months ended March 31, 2024 and 2023.

## **12. FAIR VALUE MEASUREMENTS**

ASC 820, "Fair Value Measurement," defines fair value as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. ASC 820 also establishes a three-level fair value hierarchy that prioritizes information used in developing assumptions when pricing an asset or liability as follows:

*Level 1:* Observable inputs such as quoted prices in active markets for identical assets or liabilities;

*Level 2:* Quoted prices in active markets for similar assets or liabilities, quoted prices for identical or similar assets or liabilities in markets that are not active, or inputs, other than quoted prices in active markets, that are observable either directly or indirectly; and

*Level 3:* Unobservable inputs where there is little or no market data, which requires the reporting entity to develop its own assumptions.

ASC 820 requires the use of observable market data, when available, in making fair value measurements. When inputs used to measure fair value fall within different levels of the hierarchy, the level within which the fair value measurement is categorized is based on the lowest level input that is significant to the fair value measurement.

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**Recurring Fair Value Measurements**

The following tables present the Company's fair value hierarchy for those assets and liabilities measured at fair value (in millions):

	Fair Value Measurements Using:						
	Total as of March 31, 2024	Quoted Prices in Active Markets (Level 1)		Significant Other Observable Inputs (Level 2)		Significant Unobservable Inputs (Level 3)	
		\$	25	\$	—	\$	25
<b>Other current assets</b>							
Foreign currency exchange derivatives	\$ 25	\$ —	\$ —	\$ 25	\$ —	\$ —	\$ —
Commodity derivatives	2	—	—	2	—	—	—
<b>Other noncurrent assets</b>							
Cross-currency interest rate swap	7	—	—	7	—	—	—
Deferred compensation plan assets	53	53	53	—	—	—	—
Exchange traded funds (fixed income) <sup>(1)</sup>	81	81	81	—	—	—	—
Exchange traded funds (equity) <sup>(1)</sup>	186	186	186	—	—	—	—
<b>Total assets</b>	<b>\$ 354</b>	<b>\$ 320</b>	<b>\$ 34</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>
<b>Other current liabilities</b>							
Foreign currency exchange derivatives	\$ 17	\$ —	\$ —	\$ 17	\$ —	\$ —	\$ —
Contingent earn-out liabilities	63	—	—	—	—	—	63
<b>Other noncurrent liabilities</b>							
Contingent earn-out liabilities	33	—	—	—	—	—	33
<b>Total liabilities</b>	<b>\$ 113</b>	<b>\$ —</b>	<b>\$ 17</b>	<b>\$ —</b>	<b>\$ 96</b>	<b>\$ —</b>	<b>\$ —</b>

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	Fair Value Measurements Using:						
	Total as of September 30, 2023	Quoted Prices in Active Markets (Level 1)		Significant Other Observable Inputs (Level 2)		Significant Unobservable Inputs (Level 3)	
		\$	29	\$	—	\$	29
Other current assets							
Foreign currency exchange derivatives	\$ 29	\$ —	\$ —	\$ 29	\$ —	\$ —	\$ —
Interest rate swaps	22	—	—	22	—	—	—
Other noncurrent assets							
Cross-currency interest rate swap	5	—	—	5	—	—	—
Deferred compensation plan assets	45	45	—	—	—	—	—
Exchange traded funds (fixed income) <sup>(1)</sup>	76	76	—	—	—	—	—
Exchange traded funds (equity) <sup>(1)</sup>	155	155	—	—	—	—	—
Total assets	<u>\$ 332</u>	<u>\$ 276</u>	<u>\$ 56</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>
Other current liabilities							
Foreign currency exchange derivatives	\$ 25	\$ —	\$ 25	\$ —	\$ —	\$ —	\$ —
Commodity derivatives	2	—	2	—	—	—	—
Contingent earn-out liabilities	48	—	—	—	—	48	—
Other noncurrent liabilities							
Contingent earn-out liabilities	76	—	—	—	—	76	—
Total liabilities	<u>\$ 151</u>	<u>\$ —</u>	<u>\$ 27</u>	<u>\$ —</u>	<u>\$ 124</u>	<u>\$ —</u>	<u>\$ —</u>

<sup>(1)</sup> Classified as restricted investments for payment of asbestos liabilities. See Note 21, "Commitments and Contingencies," of the notes to the consolidated financial statements for further details.

The following table summarizes changes in contingent earn-out liabilities, which are valued using significant unobservable inputs (Level 3) (in millions):

Balance at September 30, 2023	\$ 124
Payments	(20)
Reduction for change in estimates	(8)
Balance at March 31, 2024	<u>\$ 96</u>

#### Valuation Methods

**Commodity derivatives:** The commodity derivatives are valued under a market approach using publicized prices, where available, or dealer quotes.

**Contingent earn-out liabilities:** The contingent earn-out liabilities were established using a Monte Carlo simulation based on the forecasted operating results and the earn-out formula specified in the purchase agreements.

**Cross-currency interest rate swaps:** The fair value of cross-currency interest rate swaps represents the difference between the swap's reference rate and exchange rate and the interest and exchange rates for a similar instrument as of the reporting period. Cross-currency interest rate swaps are valued under a market approach using publicized prices.

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**Deferred compensation plan assets:** Assets held in the deferred compensation plans will be used to pay benefits under certain of the Company's non-qualified deferred compensation plans. The investments primarily consist of mutual funds which are publicly traded on stock exchanges and are valued using a market approach based on the quoted market prices. Unrealized gains (losses) on the deferred compensation plan assets are recognized in the consolidated statements of income where they offset unrealized gains and losses on the related deferred compensation plan liability.

**Exchange traded funds:** Investments in exchange traded funds are valued using a market approach based on quoted market prices, where available, or broker/dealer quotes of identical or comparable instruments. Refer to Note 21, "Commitments and Contingencies," of the notes to the consolidated financial statements for further information.

**Foreign currency exchange derivatives:** The foreign currency exchange derivatives are valued under a market approach using publicized spot and forward prices.

**Interest rate swaps:** The fair value of interest rate swaps represent the difference between the swap's reference rate and the interest rate for a similar instrument as of the reporting period. Interest rate swaps are valued under a market approach using publicized prices.

The following table presents the portion of unrealized gains recognized in the consolidated statements of income that relate to equity securities still held at March 31, 2024 and 2023 (in millions):

	Three Months Ended March 31,		Six Months Ended March 31,					
	2024		2023					
	\$	3	\$	2	\$	7	\$	5
Deferred compensation plan assets								
Investments in exchange traded funds		17		12		39		23

The fair values of cash and cash equivalents, accounts receivable, short-term debt and accounts payable approximate their carrying values.

The fair value of long-term debt at March 31, 2024 and September 30, 2023 was as follows (in billions):

	March 31,		September 30,	
	2024		2023	
	\$	7.6	\$	7.1
Public debt				
Other long-term debt		0.4		0.4
Total fair value of long-term debt	\$	8.0	\$	7.5

The fair value of public debt was determined primarily using market quotes which are classified as Level 1 inputs within the ASC 820 fair value hierarchy. The fair value of other long-term debt was determined using quoted market prices for similar instruments and are classified as Level 2 inputs within the ASC 820 fair value hierarchy.

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**13. STOCK-BASED COMPENSATION**

The Johnson Controls International plc 2021 Equity and Incentive Plan authorizes stock options, stock appreciation rights, restricted (non-vested) stock/units, performance share units and other stock-based awards. The Compensation and Talent Development Committee of the Company's Board of Directors determines the types of awards to be granted to individual participants and the terms and conditions of the awards. Awards are typically granted annually in the Company's fiscal first quarter.

A summary of the stock-based awards granted is presented below:

	Six Months Ended March 31,					
	2024				2023	
	Number Granted	Weighted Average Grant Date Fair Value	Number Granted	Weighted Average Grant Date Fair Value		
Restricted stock/units	1,838,525	\$ 53.69	1,720,662	\$ 66.59		
Performance shares	370,307	54.13	339,191	79.54		
Stock options	652,702	13.74	570,140	18.21		

**Performance Share Awards**

The following table summarizes the assumptions used in determining the fair value of performance share units granted:

	Six Months Ended March 31,	
	2024	2023
Risk-free interest rate	4.21%	4.04%
Expected volatility of the Company's stock	27.2%	33.5%

**Stock Options**

The following table summarizes the assumptions used in determining the fair value of stock options granted:

	Six Months Ended March 31,	
	2024	2023
Expected life of option (years)	5.7	5.8
Risk-free interest rate	3.86%	3.59%
Expected volatility of the Company's stock	29.8%	29.4%
Expected dividend yield on the Company's stock	2.77%	2.10%

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**14. EARNINGS PER SHARE**

The following table reconciles the numerators and denominators used to calculate basic and diluted earnings per share (in millions):

	Three Months Ended		Six Months Ended	
	March 31, 2024	2023	March 31, 2024	2023
<b>Net income (loss) attributable to Johnson Controls</b>	\$ (277)	\$ 133	\$ 97	\$ 251
<b>Weighted Average Shares Outstanding</b>				
Basic weighted average shares outstanding	679.0	686.8	679.9	686.9
Effect of dilutive securities:				
Stock options, unvested restricted stock and unvested performance share awards	—	2.9	1.6	3.1
Diluted weighted average shares outstanding	679.0	689.7	681.5	690.0
<b>Antidilutive Securities</b>				
Stock options and unvested restricted stock	—	0.3	0.5	0.3

For the three months ended March 31, 2024, the total number of potential dilutive shares due to stock options, unvested restricted stock and unvested performance share awards was 1.6 million. However, these items were not included in the computation of diluted loss per share for the three months ended March 31, 2024 since to do so would decrease the loss per share.

**15. EQUITY**

**Share repurchase program**

During the three and six months ended March 31, 2024, the Company repurchased and immediately retired \$ 474 million of its ordinary shares. During the three and six months ended March 31, 2023, the Company repurchased and immediately retired \$93 million and \$247 million, respectively, of its ordinary shares.

As of March 31, 2024, approximately \$2.5 billion remains available under the Company's share repurchase program, which was approved by the Company's Board of Directors in March 2021. The share repurchase program does not have an expiration date and may be amended or terminated by the Board of Directors at any time without prior notice.

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**Accumulated Other Comprehensive Income (Loss)**

The following schedules present changes in AOCI attributable to Johnson Controls (in millions):

	Three Months Ended March 31,		Six Months Ended March 31,	
	2024	2023	2024	2023
<b>Foreign currency translation adjustments</b>				
Balance at beginning of period	\$ (909)	\$ (842)	\$ (970)	\$ (901)
Aggregate adjustment for the period	(92)	(1)	(31)	58
Balance at end of period	(1,001)	(843)	(1,001)	(843)
<b>Realized and unrealized gains (losses) on derivatives</b>				
Balance at beginning of period	(23)	(22)	15	(11)
Current period changes in fair value	23	16	(20)	5
Reclassification to income <sup>(1)</sup>	3	7	7	4
Net tax impact	(3)	(4)	(2)	(1)
Balance at end of period	—	(3)	—	(3)
<b>Pension and postretirement plans</b>				
Balance at beginning of period	(1)	—	—	1
Reclassification to income	(2)	(1)	(3)	(2)
Net tax impact	1	1	1	1
Balance at end of period	(2)	—	(2)	—
Accumulated other comprehensive loss, end of period	\$ (1,003)	\$ (846)	\$ (1,003)	\$ (846)

<sup>(1)</sup> Refer to Note 11, "Derivative Instruments and Hedging Activities," of the notes to the consolidated financial statements for disclosure of the line items in the consolidated statements of income affected by reclassifications from AOCI into income related to derivatives.

**16. PENSION AND RETIREMENT PLANS**

The components of the Company's net periodic benefit cost (credit) associated with its defined benefit pension and postretirement plans, which are primarily recorded in selling, general and administrative expenses in the consolidated statements of income, are shown in the tables below in accordance with ASC 715, "Compensation – Retirement Benefits" (in millions):

	U.S. Pension Plans				
	Three Months Ended March 31,		Six Months Ended March 31,		
	2024	2023	2024	2023	
Interest cost	\$ 19	\$ 20	\$ 39	\$ 41	
Expected return on plan assets	(30)	(33)	(60)	(67)	
Net actuarial loss	—	15	—	23	
Settlement loss	—	1	—	1	
Net periodic benefit cost (credit)	\$ (11)	\$ 3	\$ (21)	\$ (2)	

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	Non-U.S. Pension Plans							
	Three Months Ended				Six Months Ended			
	March 31,				March 31,			
	2024	2023	2024	2023	2024	2023	2024	2023
Service cost	\$ 4	\$ 4	\$ 8	\$ 7				
Interest cost	17	17	34	33				
Expected return on plan assets	(18)	(19)	(36)	(37)				
Net periodic benefit cost	<u>\$ 3</u>	<u>\$ 2</u>	<u>\$ 6</u>	<u>\$ 3</u>				

  

	Postretirement Benefits							
	Three Months Ended				Six Months Ended			
	March 31,				March 31,			
	2024	2023	2024	2023	2024	2023	2024	2023
Interest cost	\$ 1	\$ 1	\$ 2	\$ 2				
Expected return on plan assets	(2)	(2)	(4)	(4)				
Amortization of prior service credit	(2)	(1)	(3)	(2)				
Net periodic benefit credit	<u>\$ (3)</u>	<u>\$ (2)</u>	<u>\$ (5)</u>	<u>\$ (4)</u>				

During the three and six months ended March 31, 2023, the amount of cumulative fiscal 2023 lump sum payouts triggered a remeasurement event for certain U.S. pension plans resulting in the recognition of net actuarial losses of \$15 million and \$23 million, respectively, primarily due to decreases in discount rates, partially offset by favorable plan asset performance.

## 17. RESTRUCTURING AND RELATED COSTS

To better align its resources with its growth strategies and reduce the cost structure of its global operations in certain underlying markets, the Company commits to various restructuring activities as necessary. Restructuring activities generally result in charges for workforce reductions, plant closures, asset impairments and other related costs which are reported as restructuring and impairment costs in the Company's consolidated statements of income. The Company expects the restructuring activities to reduce cost of sales and selling, general and administrative expenses ("SG&A") due to reduced employee-related costs, depreciation and amortization expense.

In the third and fourth quarters of fiscal 2023, the Company developed a restructuring plan which included workforce reductions and other actions focused on continued scaling of SG&A expenses to its planned growth. Additional restructuring charges related to this plan were recorded in the three and six months ended March 31, 2024 and are expected in subsequent quarters.

The following table summarizes restructuring and related costs (in millions):

	Three Months Ended March 31, 2024	Six Months Ended March 31, 2024
Building Solutions North America	\$ —	\$ 4
Building Solutions EMEA/LA	—	13
Building Solutions Asia Pacific	3	3
Global Products	15	36
Corporate	6	7
<b>Total</b>	<b>\$ 24</b>	<b>\$ 63</b>

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The following table summarizes changes in the restructuring reserve, which is included within other current liabilities in the consolidated statements of financial position (in millions):

	Employee Severance and Termination Benefits	Long-Lived Asset Impairments	Other	Total
Restructuring and related costs	\$ 204	\$ 38	\$ 34	\$ 276
Utilized—cash	(111)	—	(19)	(130)
Utilized—noncash	—	(38)	(3)	(41)
Balance at September 30, 2023	93	—	12	105
Additional restructuring and related costs	34	23	6	63
Utilized—cash	(84)	—	(6)	(90)
Utilized—noncash	—	(23)	(1)	(24)
Other	28	—	—	28
Balance at March 31, 2024	<u>\$ 71</u>	<u>\$ —</u>	<u>\$ 11</u>	<u>\$ 82</u>

## 18. INCOME TAXES

In calculating the provision for income taxes, the Company uses an estimate of the annual effective tax rate based upon the facts and circumstances known at each interim period. On a quarterly basis, the actual effective tax rate is adjusted, as appropriate, based upon changed facts and circumstances, if any, as compared to those forecasted at the beginning of the fiscal year and each interim period thereafter.

The statutory tax rate in Ireland is being used as a comparison since the Company is domiciled in Ireland.

For the three months ended March 31, 2024, the Company's effective tax rate was 35.2% and was higher than the statutory tax rate of 12.5% primarily due to the tax impact of an impairment charge and tax rate differentials, partially offset by the tax impact of the water systems Aqueous Film Forming Foam ("AFFF") settlement costs and the benefits of continuing global tax planning.

For the six months ended March 31, 2024, the Company's effective tax rate was (305%) and was lower than the statutory tax rate of 12.5% primarily due to the tax impact of the water systems AFFF settlement costs, Swiss tax reform, and the benefits of continuing global tax planning, partially offset by the tax impact of an impairment charge, the establishment of a deferred tax liability on the outside basis difference of the Company's investment in certain consolidated subsidiaries and tax rate differentials.

For the three months ended March 31, 2023, the Company's effective tax rate was 22.0% and was higher than the statutory tax rate of 12.5% primarily due to the tax impact of an impairment charge and tax rate differentials, partially offset by the benefits of continuing global tax planning initiatives.

For the six months ended March 31, 2023, the Company's effective tax rate was 16.0% and was higher than the statutory tax rate of 12.5% primarily due to the tax impact of an impairment charge and tax rate differentials, partially offset by the benefits of continuing global tax planning initiatives.

Refer to Note 21, "Commitments and Contingencies," of the notes to the consolidated financial statements for further disclosure related to the water systems AFFF settlement.

### Uncertain Tax Positions

At September 30, 2023, the Company had gross tax-effected unrecognized tax benefits of \$ 2.2 billion, of which \$ 1.6 billion, if recognized, would impact the effective tax rate. Accrued interest, net at September 30, 2023 was approximately

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\$335 million (net of tax benefit). Interest accrued during the six months ended March 31, 2024 and 2023 was approximately \$ 60 million and \$56 million (both net of tax benefit), respectively. The Company recognizes interest and penalties related to unrecognized tax benefits as a component of income tax expense.

In the U.S., fiscal years 2019 through 2020 are currently under audit and fiscal years 2017 through 2018 are currently under appeal with the Internal Revenue Service ("IRS") for certain legal entities. In addition, fiscal years 2016 through 2019 are also under exam by the IRS in relation to a separate consolidated filing group. Additionally, the Company is currently under exam in the following major non-U.S. jurisdictions:

Tax Jurisdiction	Tax Years Covered
Belgium	2015 - 2022
Germany	2007 - 2021
Luxembourg	2017 - 2018
Mexico	2015 - 2019
United Kingdom	2014 - 2015; 2018; 2020 - 2021

It is reasonably possible that tax examinations and/or tax litigation will conclude within the next twelve months, which could have a material impact on tax expense. Based upon the circumstances surrounding these examinations, the impact is not currently quantifiable.

#### **Impacts of Tax Legislation**

On September 11, 2023, the Schaffhausen parliament approved a partial revision of the cantonal act on direct taxation: Immediate Minimum Taxation Measure ("IMTM"). On November 19, 2023, IMTM was approved in a public referendum in the canton of Schaffhausen, was published in the cantonal official gazette on December 8, 2023, and is effective starting January 1, 2024. The IMTM increased Switzerland's combined statutory income tax rate to approximately 15%. As a result, in the six months ended March 31, 2024, the Company recorded a noncash discrete net tax benefit of \$80 million due to the remeasurement of deferred tax assets and liabilities related to Switzerland and the canton of Schaffhausen.

#### **19. SEGMENT INFORMATION**

ASC 280, "Segment Reporting," establishes the standards for reporting information about segments in financial statements. In applying the criteria set forth in ASC 280, the Company has determined that it has four reportable segments for financial reporting purposes.

The Company conducts its business through four operating segments, all of which are reportable segments:

- *Building Solutions North America* which operates in the United States and Canada;
- *Building Solutions EMEA/LA* which operates in Europe, the Middle East, Africa and Latin America;
- *Building Solutions Asia Pacific* which operates in Asia Pacific; and
- *Global Products* which operates worldwide and includes the Johnson Controls-Hitachi joint venture.

The Building Solutions segments:

- Design, sell, install and service HVAC, controls, building management, refrigeration, integrated electronic security and integrated fire-detection and suppression systems; and
- Provide energy-efficiency solutions and technical services, including data-driven "smart building" solutions as well as inspection, scheduled maintenance, and repair and replacement of mechanical and controls systems.

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The Global Products segment designs, manufactures and sells:

- HVAC equipment, controls software and software services for residential and commercial applications;
- Refrigeration equipment and controls;
- Fire protection and suppression; and
- Security products, including intrusion security, anti-theft devices, access control, and video surveillance and management systems.

The Company's segments provide products and services to commercial, institutional, industrial, data center, governmental and residential customers.

Management evaluates the performance of its segments primarily on segment earnings before interest, taxes and amortization ("EBITA"), which represents income before income taxes and noncontrolling interests, excluding corporate expenses, amortization of intangible assets, restructuring and impairment costs, the water systems AFFF settlement costs, net mark-to-market gains and losses related to pension and postretirement plans and restricted asbestos investments, and net financing charges.

Financial information relating to the Company's reportable segments is as follows (in millions):

	Net Sales			
	Three Months Ended March 31,		Six Months Ended March 31,	
	2024	2023	2024	2023
Building Solutions North America	\$ 2,739	\$ 2,520	\$ 5,226	\$ 4,887
Building Solutions EMEA/LA	1,064	1,031	2,102	2,006
Building Solutions Asia Pacific	491	667	998	1,313
Global Products	2,405	2,468	4,467	4,548
<b>Total net sales</b>	<b>\$ 6,699</b>	<b>\$ 6,686</b>	<b>\$ 12,793</b>	<b>\$ 12,754</b>
Segment EBITA				
	Three Months Ended March 31,		Six Months Ended March 31,	
	2024	2023	2024	2023
	\$ 373	\$ 315	\$ 658	\$ 582
Building Solutions North America	89	69	169	144
Building Solutions EMEA/LA	54	79	100	147
Building Solutions Asia Pacific	429	488	798	870
<b>Total segment EBITA</b>	<b>945</b>	<b>951</b>	<b>1,725</b>	<b>1,743</b>
Corporate expenses	99	131	238	240
Amortization of intangible assets	125	104	247	208
Restructuring and impairment costs	254	418	293	763
Water systems AFFF settlement <sup>(1)</sup>	750	—	750	—
Net mark-to-market losses (gains)	(15)	4	(37)	1
Net financing charges	93	71	192	138
<b>Income (loss) before income taxes</b>	<b>\$ (361)</b>	<b>\$ 223</b>	<b>\$ 42</b>	<b>\$ 393</b>

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<sup>(1)</sup> Refer to Note 21, "Commitments and Contingencies," of the notes to the consolidated financial statements for further disclosure related to the water systems AFFF settlement.

## **20. GUARANTEES**

Certain of the Company's subsidiaries at the business segment level guarantee the performance of third parties and provide financial guarantees for uncompleted work and financial commitments. The terms of these guarantees vary with end dates ranging from the current fiscal year through the completion of such transactions and would typically be triggered in the event of nonperformance. Performance under the guarantees, if required, would not have a material effect on the Company's financial position, results of operations or cash flows.

The Company offers warranties to its customers depending upon the specific product and terms of the customer purchase agreement. A typical warranty program requires that the Company repair or replace defective products within a specified time period from the date of sale. The Company records an estimate for future warranty-related costs based on actual historical costs to repair or replace products and other known factors. The Company monitors its warranty activity and adjusts its reserve estimates when it is probable that future warranty costs will be different than those estimates.

The Company's product warranty liability is recorded in the consolidated statements of financial position in other current liabilities for estimated costs to be incurred within 12 months and in other non-current liabilities for estimated costs to be incurred in more than one year.

The following table summarizes changes in the total product warranty liability (in millions):

Balance at September 30, 2023	\$ 203
Accruals for warranties issued during the period	71
Settlements made (in cash or in kind) during the period	(64)
Changes in estimates to pre-existing warranties	28
<b>Balance at March 31, 2024</b>	<b>\$ 238</b>

## **21. COMMITMENTS AND CONTINGENCIES**

### **Environmental Matters**

The Company accrues for potential environmental liabilities when it is probable a liability has been incurred and the amount of the liability is reasonably estimable. The following table presents the location and amount of reserves for environmental liabilities in the Company's consolidated statements of financial position (in millions):

	March 31, 2024	September 30, 2023
Other current liabilities	\$ 28	\$ 31
Other noncurrent liabilities	194	211
<b>Total reserves for environmental liabilities</b>	<b>\$ 222</b>	<b>\$ 242</b>

The Company periodically examines whether the contingent liabilities related to the environmental matters described below are probable and reasonably estimable based on experience and ongoing developments in those matters, including continued study and analysis of ongoing remediation obligations. The Company expects that it will pay the amounts recorded over an estimated period of up to 20 years. The Company is not able to estimate a possible loss or range of loss, if any, in excess of the established accruals for environmental liabilities at this time.

A substantial portion of the Company's environmental reserves relates to ongoing long-term remediation efforts to address contamination relating to Aqueous Film Forming Foam ("AFFF") containing perfluorooctane sulfonate ("PFOS"), perfluorooctanoic acid ("PFOA"), and/or other per- and poly-fluoroalkyl substances ("PFAS") at or near the Tyco Fire

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Products L.P. ("Tyco Fire Products") Fire Technology Center ("FTC") located in Marinette, Wisconsin and surrounding areas in the City of Marinette and Town of Peshtigo, Wisconsin, as well as the continued remediation of PFAS, arsenic and other contaminants at the Tyco Fire Products Stanton Street manufacturing facility also located in Marinette, Wisconsin (the "Stanton Street Facility").

PFOA, PFOS, and other PFAS compounds are being studied by the U.S. Environmental Protection Agency ("EPA") and other environmental and health agencies and researchers. In March 2021, EPA published its final determination to regulate PFOS and PFOA in drinking water. On April 10, 2024, EPA announced the final National Primary Drinking Water Regulation ("NPDWR") for six PFAS compounds including PFOA and PFOS. The NPDWR established legally enforceable levels, called Maximum Contaminant Levels, of 4.0 parts per trillion ("ppt") for each of PFOA and PFOS, 10 ppt for each of PFHxS, PFNA, and HFPO-DA (commonly known as GenX Chemicals), and a Hazard Index of one for mixtures containing two or more of PFHxS, PFNA, HFPO-DA, and PFBA. In February 2024, EPA released two proposed rules relating to PFAS under the Resource Conservation and Recovery Act ("RCRA"): one rule proposes to list nine PFAS (including PFOA and PFOS) as "hazardous constituents," and a second rule proposes to clarify that hazardous waste regulated under the rule includes not only substances listed or identified as hazardous waste in the regulations, but also any substances that meets the statutory definition of hazardous waste.

In August 2022, EPA published a proposed rule that would designate PFOA and PFOS as "hazardous substances" under Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"). In April 2023, EPA issued an Advanced Notice of Proposed Rulemaking ("ANPR") seeking input on whether it should expand the proposed rule to designate as "hazardous substances" under CERCLA: (1) seven additional PFAS; (2) the precursors to PFOA, PFOS, and the seven additional PFAS; or (3) entire categories of PFAS. On April 17, 2024, the EPA Administrator signed the final rule designating PFOA and PFOS, along with their salts and structural isomers, as "hazardous substances."

It is not possible to estimate the Company's ultimate level of liability at many remediation sites due to the large number of other parties that may be involved, the complexity of determining the relative liability among those parties, the financial viability of other potentially responsible parties and third-party indemnitors, the uncertainty as to the nature and scope of the investigations and remediation to be conducted, changes in environmental regulations, changes in permissible levels of specific compounds in soil, groundwater and drinking water sources, or changes in enforcement theories and policies, including efforts to recover natural resource damages, the uncertainty in the application of law and risk assessment, the various choices and costs associated with diverse technologies that may be used in corrective actions at the sites, and the often quite lengthy periods over which eventual remediation may occur. It is possible that technological, regulatory or enforcement developments, the results of additional environmental studies or other factors could change the Company's expectations with respect to future charges and cash outlays, and such changes could be material to the Company's future results of operations, financial condition or cash flows. Nevertheless, the Company does not currently believe that any claims, penalties or costs in addition to the amounts accrued will have a material adverse effect on the Company's financial position, results of operations or cash flows.

In addition, the Company has identified asset retirement obligations for environmental matters that are expected to be addressed at the retirement, disposal, removal or abandonment of existing owned facilities. Conditional asset retirement obligations were \$10 million and \$13 million at March 31, 2024 and September 30, 2023, respectively.

#### **FTC-Related Matters**

##### ***FTC Remediation***

The use of fire-fighting foams at the FTC was primarily for training and testing purposes to ensure that such products sold by the Company's affiliates, Chemguard, Inc. ("Chemguard") and Tyco Fire Products, were effective at suppressing high intensity fires that may occur at military installations, airports or elsewhere. On July 18, 2023, Tyco Fire Products announced that it plans to discontinue the production and sale of fluorinated firefighting foams by June 2024, including AFFF products, and will transition to non-fluorinated foam alternatives.

Tyco Fire Products has been engaged in remediation activities at the Stanton Street Facility since 1990. Its corporate predecessor, Ansul Incorporated ("Ansul"), manufactured arsenic-based agricultural herbicides at the Stanton Street

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Facility, which resulted in significant arsenic contamination of soil and groundwater on the site and in parts of the adjoining Menominee River. In 2009, Anslu entered into an Administrative Consent Order (the "Consent Order") with EPA to address the presence of arsenic at the site. Under this agreement, Tyco Fire Products' principal obligations are to contain the arsenic contamination on the site, pump and treat on-site groundwater, dredge, treat and properly dispose of contaminated sediments in the adjoining river areas, and monitor contamination levels on an ongoing basis. Activities completed under the Consent Order since 2009 include the installation of a subsurface barrier wall around the facility to contain contaminated groundwater, the installation and ongoing operation and monitoring of a groundwater extraction and treatment system and the dredging and offsite disposal of treated river sediment. In addition to ongoing remediation activities, the Company is also working with the Wisconsin Department of Natural Resources ("WDNR") to investigate and remediate the presence of PFAS at or near the Stanton Street Facility as part of the evaluation and remediation of PFAS in the Marinette region.

Tyco Fire Products is operating and monitoring at the FTC a Groundwater Extraction and Treatment System ("GETS"), a permanent groundwater remediation system that extracts groundwater containing PFAS, treats it using advanced filtration systems, and returns the treated water to the environment. Tyco Fire Products has also completed the removal and disposal of PFAS-affected soil from the FTC. The Company's reserves for continued remediation of the FTC, the Stanton Street Facility and surrounding areas in Marinette and Peshtigo are based on estimates of costs associated with the long-term remediation actions, including the continued operation of the GETS, the implementation of long-term drinking water solutions for the area impacted by groundwater migrating from the FTC, continued monitoring and testing of groundwater monitoring wells, the operation and wind-down of other legacy remediation and treatment systems and the completion of ongoing investigation obligations.

***FTC-Related Litigation***

On June 21, 2019, the WDNR announced that it had received from the Wisconsin Department of Health Services ("WDHS") a recommendation for groundwater quality standards as to, among other compounds, PFOA and PFOS. The WDHS recommended a groundwater enforcement standard for PFOA and PFOS of 20 parts per trillion. Although Wisconsin approved final regulatory standards for PFOA and PFOS in drinking water and surface water in February 2022, the Wisconsin Natural Resources Board did not approve WDNR's proposed standards for PFOA and PFOS in groundwater. The WDNR initiated a rulemaking proceeding that would establish groundwater quality standards for PFOA, PFOS, perfluorobutane sulfonic acid and its potassium salt ("PFBS") and hexafluoropropylene oxide dimer acid and its ammonium salt ("HFPO-DA"). Pursuant to state law, the WDNR has stopped work on the proposed rule and notified the state legislature that, following economic analysis, the proposed costs would exceed statutory thresholds. As a result, the state legislature is required to authorize the WDNR to allow the rulemaking to continue.

In July 2019, the Company received a letter from the WDNR directing the expansion of the evaluation of PFAS in the Marinette region to include (1) biosolids sludge produced by the City of Marinette Waste Water Treatment Plant and spread on certain fields in the area and (2) the Menominee and Peshtigo Rivers. On October 16, 2019, the WDNR issued a "Notice of Noncompliance" to Tyco Fire Products and Johnson Controls, Inc. regarding the WDNR's July 2019 letter. The WDNR issued a further letter regarding the issue on November 4, 2019. In February 2020, the WDNR sent a letter to Tyco Fire Products and Johnson Controls, Inc. further directing the expansion of the evaluation of PFAS in the Marinette region to include investigation activities south and west of the previously defined FTC study area. In September 2021, the WDNR sent an additional "Notice of Noncompliance" to Tyco Fire Products and Johnson Controls, Inc. concerning land-applied biosolids, which reviewed and responded to the Company's biosolids investigation conducted to that date. On April 10, 2023, the WDNR issued a third "Notice of Noncompliance" to Tyco Fire Products and Johnson Controls, Inc. concerning land-applied biosolids in the Marinette region. Tyco Fire Products and Johnson Controls, Inc. believe that they have complied with all applicable environmental laws and regulations. The Company cannot predict what regulatory or enforcement actions, if any, might result from the WDNR's actions, or the consequences of any such actions, including the potential assessment of penalties.

In March 2022, the Wisconsin Department of Justice ("WDOJ") filed a civil enforcement action against Johnson Controls Inc. and Tyco Fire Products in Wisconsin state court relating to environmental matters at the FTC (*State of Wisconsin v. Tyco Fire Products, LP and Johnson Controls, Inc.*, Case No. 22-CX-1 (filed March 14, 2022 in Circuit Court in Marinette County, Wisconsin)). The WDOJ alleges that the Company failed to timely report the presence of PFAS chemicals at the

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FTC, and that the Company has not sufficiently investigated or remediated PFAS at or near the FTC. The WDOJ seeks monetary penalties and an injunction ordering these two subsidiaries to complete a site investigation and cleanup of PFAS contamination in accordance with the WDNR's requests. The parties are proceeding with expert discovery and the court has set a trial date of December 3, 2024.

In October 2022, the Town of Peshtigo filed a tort action in Wisconsin state court against Tyco Fire Products, Johnson Controls Inc., Chemguard, Inc., and ChemDesign, Inc. relating to environmental matters at the FTC (*Town of Peshtigo v. Tyco Fire Products L.P. et al.*, Case No. 2022CV000234 (filed October 18, 2022 in Circuit Court in Marinette County, Wisconsin)). The Town alleges that use of AFFF products at the FTC caused contamination of water supplies in Peshtigo. The Town seeks monetary penalties and an injunction ordering abatement of PFAS contamination in Peshtigo. The case has been removed to federal court and transferred to a multi-district litigation ("MDL") before the United States District Court for the District of South Carolina.

In November 2022, individuals filed six actions in Dane County, Wisconsin alleging personal injury and/or property damage against Tyco Fire Products, Johnson Controls Inc., Chemguard, and other unaffiliated defendants related to environmental matters at the FTC. Plaintiffs allege that use of AFFF products at the FTC and activities by third parties unrelated to the Company contaminated nearby drinking water sources, surface waters, and other natural resources and properties, including their personal properties. The individuals seek monetary damages for their personal injury and/or property damage. These lawsuits have been transferred to the MDL. Subsequently, several additional plaintiffs have direct-filed in the MDL complaints with similar allegations.

The Company is vigorously defending each of these cases and believes that it has meritorious defenses, but it is presently unable to predict the duration, scope, or outcome of these actions.

**Aqueous Film-Forming Foam ("AFFF") Matters**

**AFFF Litigation**

Two of the Company's subsidiaries, Chemguard and Tyco Fire Products, have been named, along with other defendant manufacturers, suppliers and distributors, and, in some cases, certain subsidiaries of the Company affiliated with Chemguard and Tyco Fire Products, in a number of class action and other lawsuits relating to the use of fire-fighting foam products by the U.S. Department of Defense (the "DOD") and others for fire suppression purposes and related training exercises. Plaintiffs generally allege that the firefighting foam products contain or break down into the chemicals PFOS and PFOA and/or other PFAS compounds and that the use of these products by others at various airbases, airports and other sites resulted in the release of these chemicals into the environment and ultimately into communities' drinking water supplies neighboring those airports, airbases and other sites. Plaintiffs generally seek compensatory damages, including damages for alleged personal injuries, medical monitoring, diminution in property values, investigation and remediation costs, and natural resources damages, and also seek punitive damages and injunctive relief to address remediation of the alleged contamination.

In September 2018, Tyco Fire Products and Chemguard filed a Petition for Multidistrict Litigation with the United States Judicial Panel on Multidistrict Litigation ("JPML") seeking to consolidate all existing and future federal cases into one jurisdiction. On December 7, 2018, the JPML issued an order transferring various AFFF cases to the MDL. Additional cases have been identified for transfer to or are being directly filed in the MDL.

**AFFF Municipal and Water Provider Cases**

Chemguard and Tyco Fire Products have been named as defendants in more than 815 cases in federal and state courts involving municipal or water provider plaintiffs that were filed in state or federal courts originating from 35 states and territories. The vast majority of these cases have been transferred to or were directly filed in the MDL, and it is anticipated that the remaining cases will be transferred to the MDL. These municipal and water provider plaintiffs generally allege that the use of the defendants' fire-fighting foam products at fire training academies, municipal airports, Air National Guard

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bases, or Navy or Air Force bases released PFOS and PFOA into public water supply wells and/or other public property, allegedly requiring remediation.

Tyco Fire Products and Chemguard are also periodically notified by other municipal entities that those entities may assert claims regarding PFOS and/or PFOA contamination allegedly resulting from the use of AFFF.

***Water Systems AFFF Settlement Agreement***

On April 12, 2024, Tyco Fire Products agreed to a settlement with a nationwide class of public water systems that detected PFAS in their drinking water systems that they allege to be associated with the use of AFFF. Under the terms of the agreement, Tyco Fire Products agreed to contribute \$750 million to resolve these PFAS claims. The settlement releases these claims against Tyco Fire Products, Chemguard, and other related corporate entities. In connection with the settlement, a charge for \$750 million was recorded by the Company in the three months ended March 31, 2024.

Tyco Fire Products expects to contribute an initial \$ 250 million on or about May 25, 2024, with the remaining \$ 500 million to be contributed six months after preliminary court approval of the settlement, which is expected to be addressed by the MDL court in or around mid-May, 2024. Tyco Fire Products has a significant amount of insurance through a number of insurers and expects to apply the proceeds recovered under its policies to cover a substantial portion of the total payment, although the specific amount and timing of any insurance recoveries are uncertain.

There are still several procedural and legal steps that must occur before the settlement is final and payments are made. The settlement is subject to approval by the MDL court and other contingencies, and that process is expected to take several months.

The class of public water systems included in this settlement broadly includes any public water system (as defined in the settlement agreement) that has detected PFAS in its drinking water sources as of May 15, 2024. The following systems are excluded from the settlement class: water systems owned and operated by a State or the United States government; systems that have not detected the presence of PFAS as of May 15, 2024; small transient water systems; privately-owned drinking water wells; and the water system in the city of Marinette, Wisconsin (which is included only if it so requests). The settlement does not resolve claims of public water systems that request exclusion from the class ("opt out") pursuant to the process to be established by the MDL Court. It also does not resolve potential future claims of public water systems that detect PFAS in their water systems for the first time after May 15, 2024, or certain claims not related to drinking water, such as separate alleged claims relating to real property damage or stormwater or wastewater treatment. Finally, this settlement does not affect the other categories of cases that remain at issue in the MDL, such as personal injury cases, property damage cases, other types of class actions, claims brought by state or territory attorneys general, or other types of damages alleged to be related to the historic use of AFFF manufactured and sold by Tyco Fire Products and Chemguard. While it is reasonably possible that the excluded systems or claims could result in additional future lawsuits, claims, assessments or proceedings, it is not possible to predict the outcome of any such matters, and as such, the Company is unable to develop an estimate of a possible loss or range of losses, if any, at this time.

The settlement does not constitute an admission of liability or wrongdoing by Tyco Fire Products or Chemguard. If the MDL court does not approve the agreement or certain terms are not fulfilled, Tyco Fire Products and Chemguard will continue to defend themselves in the litigation.

***AFFF Putative Class Actions***

Chemguard and Tyco Fire Products are named in 46 pending putative class actions in federal courts originating from 18 states and territories. All but one of these cases have been direct-filed in or transferred to the MDL. It is anticipated that the remaining state-court action will be similarly tagged and transferred. Tyco Fire Products was also recently named in a class action in British Columbia, Canada.

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**AFFF Individual or Mass Actions**

There are more than 7,000 individual or "mass" actions pending that were filed in state or federal courts originating from 52 states and territories against Chemguard and Tyco Fire Products and other defendants in which the plaintiffs generally seek compensatory damages, including damages for alleged personal injuries, medical monitoring, and alleged diminution in property values. The cases involve plaintiffs from various states including approximately 7,000 plaintiffs in Colorado and more than 7,000 other plaintiffs. The vast majority of these matters have been tagged for transfer to, transferred to, or directly-filed in the MDL, and it is anticipated that several newly-filed state court actions will be similarly tagged and transferred. There are several matters that are proceeding in state courts, including actions in Arizona, Illinois and Virginia.

Tyco and Chemguard are also periodically notified by other individuals that they may assert claims regarding PFOS and/or PFOA contamination allegedly resulting from the use of AFFF.

**AFFF State or U.S. Territory Attorneys General Litigation**

In June 2018, the State of New York filed a lawsuit in New York state court ( *State of New York v. The 3M Company et al* No. 904029-18 (N.Y. Sup. Ct., Albany County)) against a number of manufacturers, including affiliates of the Company, with respect to alleged PFOS and PFOA contamination purportedly resulting from firefighting foams used at locations across New York, including Stewart Air National Guard Base in Newburgh and Gabreski Air National Guard Base in Southampton, Plattsburgh Air Force Base in Plattsburgh, Griffiss Air Force Base in Rome, and unspecified "other" sites throughout the State. The lawsuit seeks to recover costs and natural resource damages associated with contamination at these sites. This suit has been removed to the United States District Court for the Northern District of New York and transferred to the MDL.

In February 2019, the State of New York filed a second lawsuit in New York state court ( *State of New York v. The 3M Company et al* (N.Y. Sup. Ct., Albany County)), against a number of manufacturers, including affiliates of the Company, with respect to alleged PFOS and PFOA contamination purportedly resulting from firefighting foams used at additional locations across New York. This suit has been removed to the United States District Court for the Northern District of New York and transferred to the MDL. In July 2019, the State of New York filed a third lawsuit in New York state court (*State of New York v. The 3M Company et al* (N.Y. Sup. Ct., Albany County)), against a number of manufacturers, including affiliates of the Company, with respect to alleged PFOS and PFOA contamination purportedly resulting from firefighting foams used at further additional locations across New York. This suit has been removed to the United States District Court for the Northern District of New York and transferred to the MDL. In November 2019, the State of New York filed a fourth lawsuit in New York state court (*State of New York v. The 3M Company et al* (N.Y. Sup. Ct., Albany County)), against a number of manufacturers, including affiliates of the Company, with respect to alleged PFOS and PFOA contamination purportedly resulting from firefighting foams used at further additional locations across New York. This suit has been removed to federal court and transferred to the MDL.

In April 2021, the State of Alaska filed a lawsuit in the superior court of the State of Alaska against a number of manufacturers and other defendants, including affiliates of the Company, with respect to PFOS and PFOA damage of the State's land and natural resources allegedly resulting from the use of firefighting foams at various locations throughout the State. The State's case has been removed to federal court and transferred to the MDL. The State of Alaska has also named a number of manufacturers and other defendants, including affiliates of the Company, as third-party defendants in two cases brought by individuals against the State. These two cases have also been transferred to the MDL.

In early November 2021, the Attorney General of the State of North Carolina filed four individual lawsuits in the superior courts of the State of North Carolina against a number of manufacturers and other defendants, including affiliates of the Company, with respect to PFOS and PFOA damage of the State's land, natural resources, and property allegedly resulting from the use of firefighting foams at four separate locations throughout the State. These four cases have been removed to federal court and transferred to the MDL. In October 2022, the Attorney General filed two similar lawsuits in the superior courts of the State of North Carolina regarding alleged PFAS damages at two additional locations. These two cases have also been removed to federal court and transferred to the MDL.

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In addition, 32 other states and territories have filed 34 lawsuits against a number of manufacturers and other defendants, including affiliates of the Company, with respect to PFAS damage of each of those State's environmental and natural resources allegedly resulting from the manufacture, storage, sale, distribution, marketing, and use of PFAS-containing AFFF within each respective State. The states and territories are: Arkansas, Arizona, California, Colorado, Connecticut, Delaware, the District of Columbia, Florida, Hawaii, Illinois, Kentucky, Massachusetts, Maryland, Maine, Michigan, Mississippi, New Hampshire, New Jersey, New Mexico, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, Tennessee, Texas, Vermont, Washington, Wisconsin, Guam, the Northern Mariana Islands, and Puerto Rico. All of these complaints, if not filed directly in the MDL, have been removed to federal court and transferred to the MDL.

***Other AFFF Related Matters***

In March 2020, the Kalispel Tribe of Indians (a federally recognized Tribe) and two tribal corporations filed a lawsuit in the United States District Court for the Eastern District of Washington against a number of manufacturers, including affiliates of the Company, and the United States with respect to PFAS contamination allegedly resulting from the use and disposal of AFFF by the United States Air Force at and around Fairchild Air Force Base in eastern Washington. This case has been transferred to the MDL.

In October 2022, the Red Cliff Band of Lake Superior Chippewa Indians (a federally recognized tribe) filed a lawsuit in the United States District Court for the Western District of Wisconsin against a number of manufacturers, including affiliates of the Company, with respect to PFAS contamination allegedly resulting from the use and disposal of AFFF at Duluth Air National Guard Base in Duluth, Minnesota. This complaint has been transferred to the MDL.

In July 2023, the Fond du Lac Band of Lake Superior Chippewa (a federally recognized tribe) direct-filed a lawsuit in the MDL against a number of manufacturers, including affiliates of the Company, with respect to PFAS contamination allegedly resulting from the use and disposal of AFFF at Duluth Air National Guard Base in Duluth, Minnesota.

The Company is vigorously defending all of the above AFFF matters and believes that it has meritorious defenses to class certification and the claims asserted, including statutes of limitations, the government contractor defense, various medical and scientific defenses, and other factual and legal defenses. The government contractor defense is a form of immunity available to government contractors that produced products for the United States government pursuant to the government's specifications. In September 2022, the AFFF MDL Court declined to grant summary judgment on the government contractor defense, ruling that various factual issues relevant to the defense must be decided by a jury rather than the Court. The Company has a historical general liability insurance program and is pursuing coverage under the program from various insurers through insurance claims discussions and litigation pending in a state court in Wisconsin and a federal district court in South Carolina. The insurance litigation involves numerous factual and legal issues. There are numerous factual and legal issues to be resolved in connection with these claims. The Company is presently unable to predict the outcome or ultimate financial exposure beyond the water systems AFFF settlement discussed above, if any, represented by these matters, and there can be no assurance that any such exposure will not be material.

***Asbestos Matters***

The Company and certain of its subsidiaries, along with numerous other third parties, are named as defendants in personal injury lawsuits based on alleged exposure to asbestos containing materials. These cases have typically involved product liability claims based primarily on allegations of manufacture, sale or distribution of industrial products that either contained asbestos or were used with asbestos containing components.

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The following table presents the location and amount of asbestos-related assets and liabilities in the Company's consolidated statements of financial position (in millions):

	March 31, 2024	September 30, 2023
Other current liabilities	\$ 58	\$ 58
Other noncurrent liabilities	358	364
Total asbestos-related liabilities	<u>416</u>	<u>422</u>
Other current assets	22	28
Other noncurrent assets	308	273
Total asbestos-related assets	<u>330</u>	<u>301</u>
Net asbestos-related liabilities	<u><u>\$ 86</u></u>	<u><u>\$ 121</u></u>

The following table presents the components of asbestos-related assets (in millions):

	March 31, 2024	September 30, 2023
Restricted		
Cash	\$ 14	\$ 20
Investments	267	231
Total restricted assets	<u>281</u>	<u>251</u>
Insurance receivables for asbestos-related liabilities	49	50
Total asbestos-related assets	<u><u>\$ 330</u></u>	<u><u>\$ 301</u></u>

The amounts recorded for asbestos-related liabilities and insurance-related assets are based on the Company's strategies for resolving its asbestos claims, currently available information, and a number of estimates and assumptions. Key variables and assumptions include the number and type of new claims that are filed each year, the average cost of resolution of claims, the identity of defendants, the resolution of coverage issues with insurance carriers, amount of insurance, and the solvency risk with respect to the Company's insurance carriers. Many of these factors are closely linked, such that a change in one variable or assumption may impact one or more of the others, and no single variable or assumption predominately influences the determination of the Company's asbestos-related liabilities and insurance-related assets. Furthermore, predictions with respect to these variables are subject to greater uncertainty in the later portion of the projection period. Other factors that may affect the Company's liability and cash payments for asbestos-related matters include uncertainties surrounding the litigation process from jurisdiction to jurisdiction and from case to case, reforms of state or federal tort legislation and the applicability of insurance policies among subsidiaries. As a result, actual liabilities or insurance recoveries could be significantly higher or lower than those recorded if assumptions used in the Company's calculations vary significantly from actual results.

#### **Self-Insured Liabilities**

The Company records liabilities for its workers' compensation, product, general and auto liabilities. The determination of these liabilities and related expenses is dependent on claims experience. For most of these liabilities, claims incurred but not yet reported are estimated by utilizing actuarial valuations based upon historical claims experience. The Company maintains captive insurance companies to manage a portion of its insurable liabilities.

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The following table presents the location and amount of self-insured liabilities in the Company's consolidated statements of financial position (in millions):

	March 31, 2024	September 30, 2023
Other current liabilities	\$ 90	\$ 86
Accrued compensation and benefits	23	21
Other noncurrent liabilities	226	226
<b>Total self-insured liabilities</b>	<b>\$ 339</b>	<b>\$ 333</b>

The following table presents the location and amount of insurance receivables in the Company's consolidated statements of financial position (in millions):

	March 31, 2024	September 30, 2023
Other current assets	\$ 6	\$ 6
Other noncurrent assets	14	14
<b>Total insurance receivables</b>	<b>\$ 20</b>	<b>\$ 20</b>

**Other Matters**

The Company is involved in various lawsuits, claims and proceedings incident to the operation of its businesses, including those pertaining to product liability, environmental, safety and health, intellectual property, employment, commercial and contractual matters, and various other casualty matters. Although the outcome of litigation cannot be predicted with certainty and some lawsuits, claims or proceedings may be disposed of unfavorably to the Company, it is management's opinion that none of these will have a material adverse effect on the Company's financial position, results of operations or cash flows. Costs related to such matters were not material to the periods presented.

## ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

### Cautionary Statements for Forward-Looking Information

Unless otherwise indicated, references to "Johnson Controls," the "Company," "we," "our" and "us" in this Quarterly Report on Form 10-Q refer to Johnson Controls International plc and its consolidated subsidiaries.

The Company has made statements in this document that are forward-looking and therefore are subject to risks and uncertainties. All statements in this document other than statements of historical fact are, or could be, "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. In this document, statements regarding the Company's future financial position, sales, costs, earnings, cash flows, other measures of results of operations, synergies and integration opportunities, capital expenditures, debt levels and market outlook are forward-looking statements. Words such as "may," "will," "expect," "intend," "estimate," "anticipate," "believe," "should," "forecast," "project" or "plan" and terms of similar meaning are also generally intended to identify forward-looking statements. However, the absence of these words does not mean that a statement is not forward-looking. The Company cautions that these statements are subject to numerous important risks, uncertainties, assumptions and other factors, some of which are beyond the Company's control, that could cause the Company's actual results to differ materially from those expressed or implied by such forward-looking statements, including, among others, risks related to: The Company's ability to develop or acquire new products and technologies that achieve market acceptance and meet applicable quality and regulatory requirements; the ability to manage general economic, business and capital market conditions, including the impact of recessions, economic downturns and global price inflation; fluctuations in the cost and availability of public and private financing for the Company's customers; the ability to innovate and adapt to emerging technologies, ideas and trends in the marketplace, including the incorporation of technologies such as artificial intelligence; the ability to manage macroeconomic and geopolitical volatility, including shortages impacting the availability of raw materials and component products and the conflicts between Russia and Ukraine and Israel and Hamas; managing the risks and impacts of potential and actual security breaches, cyberattacks, privacy breaches or data breaches, including business, service, or operational disruptions, the unauthorized access to or disclosure of data, financial loss, reputational damage, increased response and remediation costs, legal, and regulatory proceedings or other unfavorable outcomes; the Company's ability to remediate its material weakness; maintaining and improving the capacity, reliability and security of the Company's enterprise information technology infrastructure; the ability to manage the lifecycle cybersecurity risk in the development, deployment and operation of the Company's digital platforms and services; changes to laws or policies governing foreign trade, including economic sanctions, tariffs, foreign exchange and capital controls, import/export controls or other trade restrictions; fluctuations in currency exchange rates; changes or uncertainty in laws, regulations, rates, policies, or interpretations that impact the Company's business operations or tax status; the ability to adapt to global climate change, climate change regulation and successfully meet the Company's public sustainability commitments; risks and uncertainties related to the settlement with a nationwide class of public water systems concerning the use of AFFF; the outcome of litigation and governmental proceedings; the risk of infringement or expiration of intellectual property rights; the Company's ability to manage disruptions caused by catastrophic or geopolitical events, such as natural disasters, armed conflict, political change, climate change, pandemics and outbreaks of contagious diseases and other adverse public health developments; the ability of the Company to drive organizational improvement; any delay or inability of the Company to realize the expected benefits and synergies of recent portfolio transactions; the ability to hire and retain senior management and other key personnel; the tax treatment of recent portfolio transactions; significant transaction costs and/or unknown liabilities associated with such transactions; labor shortages, work stoppages, union negotiations, labor disputes and other matters associated with the labor force; and the cancellation of or changes to commercial arrangements. A detailed discussion of risks related to Johnson Controls' business is included in the section entitled "Risk Factors" in Johnson Controls' Annual Report on Form 10-K for the year ended September 30, 2023 filed with the United States Securities and Exchange Commission ("SEC") on December 14, 2023, which is available at [www.sec.gov](http://www.sec.gov) and [www.johnsoncontrols.com](http://www.johnsoncontrols.com) under the "Investors" tab. The forward-looking statements included in this document are made only as of the date of this document, unless otherwise specified, and, except as required by law, Johnson Controls assumes no obligation, and disclaims any obligation, to update such statements to reflect events or circumstances occurring after the date of this document.

## Overview

Johnson Controls International plc, headquartered in Cork, Ireland, is a global leader in smart, healthy and sustainable buildings, serving a wide range of customers in more than 150 countries. The Company's products, services, systems and solutions advance the safety, comfort and intelligence of spaces to serve people, places and the planet. The Company is committed to helping its customers win and creating greater value for all of its stakeholders through its strategic focus on buildings.

The Company is a global leader in engineering, manufacturing, commissioning and retrofitting building products and systems, including residential and commercial heating, ventilating, air-conditioning ("HVAC") equipment, industrial refrigeration systems, controls, security systems, fire-detection systems and fire-suppression solutions. The Company further serves customers by providing technical services, including maintenance, management, repair, retrofit and replacement of equipment (in the HVAC, industrial refrigeration, controls, security and fire-protection space), energy-management consulting and data-driven "smart building" services and solutions powered by its OpenBlue software platform and capabilities. The Company partners with customers by leveraging its broad product portfolio and digital capabilities powered by OpenBlue, together with its direct channel service and solutions capabilities, to deliver outcome-based solutions across the lifecycle of a building that address customers' needs to improve energy efficiency, enhance security, create healthy environments and reduce greenhouse gas emissions.

The following information should be read in conjunction with the September 30, 2023 consolidated financial statements and notes thereto, along with management's discussion and analysis of financial condition and results of operations included in the Company's Annual Report on Form 10-K for the year ended September 30, 2023 filed with the SEC on December 14, 2023. References in the following discussion and analysis to "Three Months," "Second Quarter" or similar language refer to the three months ended March 31, 2024 compared to the three months ended March 31, 2023, while "Year-to-Date" refers to six months ended March 31, 2024 compared to the six months ended March 31, 2023.

## Macroeconomic Trends

Much of the demand for the Company's products and solutions is driven by construction, facility expansion, retrofit and maintenance projects within the commercial, institutional, industrial, data center, governmental and residential sectors. Construction projects are heavily dependent on general economic conditions, localized demand for real estate and the availability of credit, public funding or other financing sources. Positive or negative fluctuations in construction, industrial facility expansion, retrofit activity, maintenance projects and other capital investments in buildings within the sectors that the Company serves, as well as availability of credit, financing or funding for such projects, could have a corresponding impact on the Company's financial condition, results of operations and cash flows. During the six months ended March 31, 2024, the Company observed continued softening of economic conditions in China, negatively impacting the performance of the Building Solutions Asia Pacific segment. The Company expects economic conditions in China to remain soft throughout the remainder of fiscal 2024, which could impact the performance of the Building Solutions Asia Pacific segment.

As a result of the Company's global presence, a significant portion of its revenues and expenses is denominated in currencies other than the U.S. dollar. The Company is therefore subject to non-U.S. currency risks and non-U.S. exchange exposure. While the Company employs financial instruments to hedge some of its transactional foreign exchange exposure, these activities do not insulate it completely from those exposures. In addition, the currency exposure from the translation of non-U.S. dollar functional currency subsidiaries are not able to be hedged. Exchange rates can be volatile and a substantial weakening or strengthening of foreign currencies against the U.S. dollar could increase or reduce the Company's profit margin, respectively, and impact the comparability of results from period to period. Revenue and profits were negatively impacted by movements in foreign exchange rates against the U.S. dollar during the three and six months ended March 31, 2024.

The Company continues to observe trends demonstrating increased interest and demand for its products and services that enable smart, safe, efficient and sustainable buildings. This demand is driven in part by government tax incentives, building performance standards and other regulations designed to limit emissions and combat climate change. In particular, legislative and regulatory initiatives such as the U.S. Climate Smart Buildings Initiative, U.S. Inflation Reduction Act and EU Energy Performance of Buildings Directive include provisions designed to fund and encourage investment in decarbonization and digital technologies for buildings. This demand is supplemented by an increase in commitments in both the public and private sectors to reduce emissions and/or achieve net zero emissions. The Company seeks to capitalize on these trends to drive growth by developing and delivering technologies and solutions to create smart, sustainable and healthy buildings. The Company is investing in new digital and product capabilities, including its OpenBlue platform, to enable it to deliver sustainable, high-

efficiency products and tailored services to enable customers to achieve their sustainability goals. The Company is leveraging its install base, together with data-driven products and services, to offer outcome-based solutions to customers with a focus on generating accelerated growth in services and recurring revenue.

The Company has experienced, and could continue to experience, increased material cost inflation and component shortages, as well as disruptions and delays in its supply chain, as a result of global macroeconomic trends, including increased global demand, geopolitical and economic tensions, including the conflict between Russia and Ukraine and Israel and Hamas, and labor shortages. Actions taken by the Company to mitigate supply chain disruptions and inflation, including expanding and redistributing its supplier network, supplier financing, price increases and productivity improvements, have generally been successful in offsetting some, but not all, of the impact of these trends. The collective impact of these trends has been favorable to revenue due to increased demand and price increases to offset inflation, while negatively impacting margins primarily due to ongoing cost pressures. Although the Company has experienced recent improvement, further disruptions, shortages and cost increases could occur in the future, the effect of which will depend on the Company's ability to successfully mitigate and offset the impact of these events.

The extent to which the Company's results of operations and financial condition are impacted by these and other factors in the future will depend on developments that are highly uncertain and cannot be predicted. See the section entitled "Risk Factors" in Johnson Controls' Annual Report on Form 10-K for the year ended September 30, 2023 filed with the United States Securities and Exchange Commission ("SEC") on December 14, 2023.

#### **Cybersecurity Incident**

During the weekend of September 23, 2023, the Company experienced a cybersecurity incident impacting its internal information technology ("IT") infrastructure and applications. The cybersecurity incident consisted of unauthorized access, data exfiltration and deployment of ransomware by a third party to a portion of the Company's internal IT infrastructure. The incident caused disruptions and limitation of access to portions of the Company's business applications supporting aspects of the Company's operations and corporate functions, which disruptions and limitations continued into the early portion of the first quarter of fiscal 2024. The Company has contained the unauthorized access and restored the impacted applications and systems.

The Company's investigation and remediation efforts remain ongoing, including the analysis of data accessed, exfiltrated or otherwise impacted during the cybersecurity incident. Based on the information reviewed to date, the Company has not observed evidence of any impact to its digital products, services and solutions, including OpenBlue and Metasys.

The impact on net income for the six months ended March 31, 2024 was approximately \$29 million. The impact is primarily attributable to expenses associated with the response to, and remediation of, the incident, and is net of insurance recoveries and revenues deferred at the end of fiscal 2023 which were recognized in the first half of fiscal 2024. Additional expenses are expected in the remainder of the fiscal year, but are not expected to be material.

Expenses include third-party expenditures, including IT recovery and forensic experts and others performing professional services to investigate and remediate the incident, as well as incremental operating expenses incurred from the resulting disruption to the Company's business operations. The overall impact of the cybersecurity incident in fiscal 2024 is not expected to be material to net income, net of insurance recoveries, or cash flows from continuing operations; however, the timing of recognizing the insurance recoveries may differ from the timing of recognizing the associated expenses.

The Company maintains insurance covering certain losses associated with cybersecurity incidents. The Company currently expects that a substantial portion of its direct costs incurred related to containing, investigating and remediating the incident, as well as business interruption losses, will be reimbursed through insurance recoveries.

#### **Restructuring Activities**

In the third and fourth quarters of fiscal 2023, the Company developed a restructuring plan which included workforce reductions and other actions focused on continued scaling of selling, general and administrative expenses ("SG&A") to its planned growth. The costs of the plan were recorded to restructuring and impairment costs in the consolidated statements of income. In the three and six months ended March 31, 2024, an additional \$24 million and \$63 million, respectively, of restructuring charges related to this plan were incurred. Additional restructuring charges are expected in subsequent quarters. The Company expects savings from the restructuring initiatives to be substantially offset by incremental ongoing operating costs and investments to grow the business.

## Net Sales

(in millions)	Three Months Ended March 31,			Six Months Ended March 31,		
	2024	2023	Change	2024	2023	Change
Net sales	\$ 6,699	\$ 6,686	— %	\$ 12,793	\$ 12,754	— %

For the three months ended March 31, 2024, higher organic sales (\$76 million) and the net impact of acquisitions and divestitures (\$21 million) were substantially offset by the unfavorable impact of foreign currency translation (\$84 million). Excluding the impact of foreign currency translation and business acquisitions and divestitures, net sales increased 1% over the prior year, primarily attributable to growth in Service, which was partially offset by continued weakness in China's Systems/Install business and declines in Residential HVAC.

For the six months ended March 31, 2024, the net impact of acquisitions and divestitures (\$62 million) and higher organic sales (\$33 million) were substantially offset by the unfavorable impact of foreign currency translation (\$56 million). Excluding the impact of foreign currency translation and business acquisitions and divestitures, net sales were flat compared to the prior year, as growth in Service was offset primarily by weakness in China's Systems/Install business and declines in global residential HVAC.

Refer to the "Segment Analysis" below within this Item 2 for a discussion of net sales by segment.

## Cost of Sales / Gross Profit

(in millions)	Three Months Ended March 31,			Six Months Ended March 31,		
	2024	2023	Change	2024	2023	Change
Cost of sales	\$ 4,518	\$ 4,445	2 %	\$ 8,620	\$ 8,422	2 %
Gross profit	2,181	2,241	(3)	4,173	4,332	(4)
% of sales	32.6 %	33.5 %	(90) bp	32.6 %	34.0 %	(140) bp

Decreases in gross profit for both the three and six months ended March 31, 2024 were primarily due to unfavorable mix and lower volumes in the Global Products segment, while higher gross profit in the Systems/Install business of the Building Solutions segments was partially offset by lower gross profit in the Service business due to unfavorable service mix.

Refer to the "Segment Analysis" below within this Item 2 for a discussion of segment earnings before interest, taxes and amortization ("EBITA").

## Selling, General and Administrative Expenses

(in millions)	Three Months Ended March 31,			Six Months Ended March 31,		
	2024	2023	Change	2024	2023	Change
SG&A	\$ 2,251	\$ 1,579	43 %	\$ 3,764	\$ 3,150	19 %
% of sales	33.6 %	23.6 %	1,000 bp	29.4 %	24.7 %	470 bp

For the three months ended March 31, 2024, the increase in SG&A was primarily due to the accrual of the water systems AFFF settlement agreement costs (\$750 million), partially offset by lower transaction and separation costs and higher mark-to-market gains.

For the six months ended March 31, 2024, the increase in SG&A was primarily due to the accrual of the water systems AFFF settlement agreement costs (\$750 million), partially offset by lower transaction and separation costs, higher mark-to-market gains, and the absence of the prior year loss associated with a fire at a leased warehouse facility.

Refer to the "Segment Analysis" below within this Item 2 for a discussion of segment EBITA. Refer to Note 21, "Commitments and Contingencies," of the notes to the consolidated financial statements for further disclosure related to the water systems AFFF settlement.

#### Restructuring and Impairment Costs

(in millions)	Three Months Ended March 31,		Six Months Ended March 31,	
	2024	2023	2024	2023
Goodwill impairments	\$ 230	\$ 184	\$ 230	\$ 184
Other impairments	—	210	—	498
Restructuring and related costs	24	24	63	81
Restructuring and impairment costs	<u>\$ 254</u>	<u>\$ 418</u>	<u>\$ 293</u>	<u>\$ 763</u>

Refer to Note 4, "Assets and Liabilities Held for Sale," Note 8, "Goodwill and Other Intangible Assets," and Note 17, "Restructuring and Related Costs," of the notes to the consolidated financial statements for further disclosure related to the Company's restructuring actions and impairment costs.

#### Net Financing Charges

(in millions)	Three Months Ended March 31,			Six Months Ended March 31,		
	2024	2023	Change	2024	2023	Change
Interest expense, net of capitalized interest costs	\$ 100	\$ 71	41 %	\$ 191	\$ 140	36 %
Other financing charges	4	11	(64)	28	21	33
Interest income	(5)	(3)	67	(10)	(7)	43
Net foreign exchange results for financing activities	(6)	(8)	(25)	(17)	(16)	6
Net financing charges	<u>\$ 93</u>	<u>\$ 71</u>	<u>31 %</u>	<u>\$ 192</u>	<u>\$ 138</u>	<u>39 %</u>

Refer to Note 10, "Debt and Financing Arrangements," of the notes to the consolidated financial statements for further disclosure related to the Company's debt.

#### Income Tax (Benefit) Provision

(in millions)	Three Months Ended March 31,			Six Months Ended March 31,		
	2024	2023	Change	2024	2023	Change
Income tax (benefit) provision	\$ (127)	\$ 49	* \$	(128)	\$ 63	*
Effective tax rate	35.2 %	22.0 %	*	(305 %)	16.0 %	*

\* Measure not meaningful

Refer to Note 18, "Income Taxes" of the notes to the consolidated financial statements for further disclosure related to the Company's income taxes.

## Segment Analysis

Management evaluates the performance of its segments primarily on segment earnings before interest, taxes and amortization ("EBITA"), which represents income before income taxes and noncontrolling interests, excluding corporate expenses, amortization of intangible assets, restructuring and impairment costs, the water systems AFFF settlement costs, net mark-to-market gains and losses related to pension and postretirement plans and restricted asbestos investments, and net financing charges.

### Net Sales

(in millions)	Three Months Ended March 31,			Six Months Ended March 31,		
	2024	2023	Change	2024	2023	Change
Building Solutions North America	\$ 2,739	\$ 2,520	9 %	\$ 5,226	\$ 4,887	7 %
Building Solutions EMEA/LA	1,064	1,031	3	2,102	2,006	5
Building Solutions Asia Pacific	491	667	(26)	998	1,313	(24)
Global Products	2,405	2,468	(3)	4,467	4,548	(2)
	<u>\$ 6,699</u>	<u>\$ 6,686</u>	<u>— %</u>	<u>\$ 12,793</u>	<u>\$ 12,754</u>	<u>— %</u>

#### Three Months:

- The increase in Building Solutions North America was primarily due to organic growth, including higher prices (\$196 million), incremental sales related to business acquisitions (\$16 million) and the favorable impact of foreign currency translation (\$7 million). Excluding the impacts of foreign currency translation and business acquisitions, sales growth was led by high-teens growth in Applied HVAC & Controls.
- The increase in Building Solutions EMEA/LA was primarily due to organic growth, including higher prices (\$36 million). Sales growth was led by mid-teen growth in Service.
- The decrease in Building Solutions Asia Pacific was primarily due to organic sales declines (\$143 million) and the unfavorable impact of foreign currency translation (\$33 million). Excluding the impacts of foreign currency translation, sales decreased as high single-digit Service growth was more than offset by continued weakness in the China Systems/Install business.
- The decrease in Global Products was due to the unfavorable impact of foreign currency translation (\$54 million) and the net impact of lower volumes and higher prices (\$13 million). Excluding the impacts of foreign currency translation, sales decreased as growth in Applied and Commercial HVAC was more than offset by declines in Residential HVAC and Fire & Security.

#### Year-to-Date:

- The increase in Building Solutions North America was primarily due to organic growth, including higher prices (\$294 million), incremental sales related to business acquisitions (\$32 million) and the favorable impact of foreign currency translation (\$13 million). Excluding the impacts of foreign currency translation and business acquisitions and divestitures, sales growth was led by growth in Applied HVAC & Controls.
- The increase in Building Solutions EMEA/LA was primarily due to organic growth, including higher prices (\$54 million) and the favorable impact of foreign currency translation (\$38 million). Excluding the impacts of foreign currency translation, sales growth was led by growth in Service.
- The decrease in Building Solutions Asia Pacific was primarily due to organic sales declines (\$274 million) and the unfavorable impact of foreign currency translation (\$43 million). Excluding the impacts of foreign currency translation, sales decreased as Service growth was more than offset by weakness in the China Systems/Install business.

- The decrease in Global Products was due to the unfavorable impact of foreign currency translation (\$64 million) and the net impact of lower volumes and higher prices (\$41 million), partially offset by the net impact of business acquisitions and divestitures (\$24 million). Excluding the impacts of foreign currency translation and business acquisitions and divestitures, sales decreased as growth in Applied and Commercial HVAC was more than offset by declines in Residential HVAC.

#### **Segment EBITA**

(in millions)	Three Months Ended March 31,			Six Months Ended March 31,		
	2024	2023	Change	2024	2023	Change
Building Solutions North America	\$ 373	\$ 315	18 %	\$ 658	\$ 582	13 %
Building Solutions EMEA/LA	89	69	29	169	144	17
Building Solutions Asia Pacific	54	79	(32)	100	147	(32)
Global Products	429	488	(12)	798	870	(8)

#### **Three Months:**

- The increase in Building Solutions North America was primarily due to favorable price/cost as higher margin backlog converted to sales and continued growth in Service.
- The increase in Building Solutions EMEA/LA was primarily due to productivity benefits, higher margin backlog converting to sales, and growth in higher margin Service.
- The decrease in Building Solutions Asia Pacific was primarily due to continued declines in the Systems/Install business in China offsetting the impact of positive mix in Service.
- The decrease in Global Products was primarily due to unfavorable mix and volumes, a charge related to a product quality issue, and the more favorable impact of an acquisition earn-out liability adjustment in the prior year.

#### **Year-to-Date:**

- The increase in Building Solutions North America was primarily due to favorable price/cost as higher margin backlog converted to sales and continued growth in Service.
- The increase in Building Solutions EMEA/LA was primarily due to productivity benefits and growth in higher margin Service.
- The decrease in Building Solutions Asia Pacific was primarily due to continued weakness in the Systems/Install business in China.
- The decrease in Global Products was primarily due to unfavorable mix, a charge related to a product quality issue, and the more favorable impact of an acquisition earn-out liability adjustment in the prior year, partially offset by the absence of the prior year loss associated with a fire at a leased warehouse facility.

#### **Backlog and Orders**

Backlog and orders are additional metrics that are meant to provide management with a deeper level of insight into the progress of specific strategic and growth initiatives. Backlog is applicable to sales of systems and services and totaled \$15.2 billion at March 31, 2024, including both Building Solutions and Global Products. Orders provide management with a signal of customer demand for the Company's products and services, as well as an indication of future revenues and performance. However, the timing and conversion of backlog and orders are subject to numerous uncertainties and risks and are not necessarily indicative of the amount of revenue to be earned in the upcoming fiscal year.

The following table summarizes backlog and orders for the Building Solutions segments:

(in billions)	Backlog		Orders	
	March 31, 2024	Year-over-Year Change <sup>(1)</sup>	Three months ended March 31, 2024	Year-over-Year Change <sup>(1)</sup>
Building Solutions North America	\$ 8.9	15 %	\$ 3.3	19 %
Building Solutions EMEA/LA	2.4	10	1.2	8
Building Solutions Asia Pacific	1.3	(18)	0.6	(9)
<b>Total Building Solutions</b>	<b>\$ 12.6</b>	<b>10 %</b>	<b>\$ 5.1</b>	<b>12 %</b>

<sup>(1)</sup> Change is compared to March 31, 2023 (backlog) and the three months ended March 31, 2023 (orders) and excludes the impact of mergers, acquisitions, dispositions and foreign currency.

Remaining performance obligations were \$21.2 billion at March 31, 2024. Differences between the Company's remaining performance obligations and backlog are primarily due to:

- Remaining performance obligations include large, multi-purpose contracts to construct hospitals, schools and other governmental buildings, which are services to be performed over the building's lifetime with average initial contract terms of 25 to 35 years for the entire term of the contract versus backlog which includes only the lifecycle period of these contracts which approximates five years;
- Remaining performance obligations exclude service contracts with an original expected duration of one year or less and contracts that are cancellable without substantial penalty versus backlog which includes short-term and cancellable contracts; and
- Remaining performance obligations include the full remaining term of service contracts with substantial termination penalties versus backlog which includes only one year for all outstanding service contracts.

The Company reports backlog, which it believes is a useful measure of evaluating the Company's operational performance and relationship to total orders.

#### **Liquidity and Capital Resources**

##### **Working Capital**

(in millions)	March 31, 2024	September 30, 2023	Change
Current assets	\$ 11,877	\$ 10,737	
Current liabilities	13,599	11,084	
<b>Working capital</b>	<b>\$ (1,722)</b>	<b>\$ (347)</b>	<b>*</b>
Accounts receivable - net	\$ 6,688	\$ 6,006	11 %
Inventories	2,991	2,776	8 %
Accounts payable	4,019	4,268	(6 %)

\* Measure not meaningful

- The decrease in working capital was primarily due to higher current borrowings and the accrual for the water systems AFFF settlement costs, partially offset by increases in accounts receivable and the net impact of various other current assets and liabilities.
- During the three months ended March 31, 2024, the Company discontinued its receivables factoring programs. The Company did not factor any receivables during the three months ended March 31, 2024, and does not expect to engage in any receivables factoring during the remainder of fiscal year 2024, resulting in an unfavorable impact of approximately \$700 million on operating cash flows in fiscal 2024.

- Material cash requirements primarily consist of working capital, capital expenditures, dividends, minimum pension contributions, debt maturities and interest, operating leases, payments related to the water systems AFFF settlement, and any potential acquisitions or stock repurchases. The Company expects cash requirements for the remainder of fiscal 2024 will be funded from operations, supplemented by other sources of short- and long-term borrowings, including term loans, commercial paper and the issuance of debt securities. The Company also expects to fund a portion of the payments related to the water systems AFFF settlement through insurance recoveries.

**Cash Flows From Continuing Operations**

(in millions)	Six Months Ended March 31,	
	2024	2023
Cash provided (used) by operating activities	\$ (449)	\$ 18
Cash used by investing activities	(211)	(314)
Cash provided by financing activities	677	262

- The increase in cash used by operating activities was primarily due to increases in accounts receivable due to the discontinuation of factoring programs and tax items, partially offset by decreases in accounts payable due to the timing of payments.
- The decrease in cash used by investing activities was primarily due to greater cash usage in the prior year for acquisitions.
- The increase in cash provided by financing activities was primarily due to changes in net debt activity, partially offset by higher share repurchases in the six months ended March 31, 2024.

**Capitalization**

(in millions)	March 31, 2024	September 30, 2023
Short-term debt	\$ 2,210	\$ 385
Current portion of long-term debt	1,165	645
Long-term debt	7,348	7,818
Total debt	10,723	8,848
Less: Cash and cash equivalents	843	835
Net debt	\$ 9,880	\$ 8,013
Shareholders' equity attributable to Johnson Controls ordinary shareholders ("Equity")	\$ 15,658	\$ 16,545
Total capitalization (Total debt plus Equity)	26,381	25,393
Net capitalization (Net debt plus Equity)	25,538	24,558
Total debt as a % of Total capitalization	40.6 %	34.8 %
Net debt as a % of Net capitalization	38.7 %	32.6 %

- Net debt and net debt as a percentage of net capitalization are non-GAAP financial measures. The Company believes the percentage of net debt to net capitalization is useful to understanding the Company's financial condition as it provides a view of the extent to which the Company relies on external debt financing for its funding and is a measure of risk to its shareholders.
- As of March 31, 2024, approximately \$2.5 billion remains available under the Company's share repurchase authorization, which does not have an expiration date and may be amended or terminated by the Board of Directors at any time without prior notice. The Company expects to repurchase outstanding shares from time to time depending on market conditions, alternate uses of capital, liquidity, and the economic environment.

- The Company declared a dividend of \$0.37 per common share in the quarter ended March 31, 2024 and intends to continue paying dividends throughout fiscal 2024.
- On April 12, 2024, Tyco Fire Products, a subsidiary of the Company, agreed to a settlement with a nationwide class of public water systems that detected PFAS in their drinking water systems that they allege to be associated with the use of AFFF. Under the terms of the agreement, Tyco Fire Products agreed to contribute \$750 million to resolve these PFAS claims. Tyco Fire Products expects to contribute an initial \$250 million on or about May 25, 2024, with the remaining \$500 million to be contributed six months after preliminary court approval of the settlement, which is expected to be addressed by the MDL court in or around mid-May, 2024. Tyco Fire Products has a significant amount of insurance through a number of insurers and expects to apply the proceeds recovered under its policies to cover a substantial portion of the total payment, although the specific amount and timing of any insurance recoveries are uncertain. Refer to Note 21, "Commitments and Contingencies," of the notes to the consolidated financial statements for additional discussion of the water systems settlement.
- The Company believes its capital resources and liquidity position, including cash and cash equivalents of \$843 million at March 31, 2024, are adequate to fund operations and meet its cash obligations for the foreseeable future.
  - The Company manages its short-term debt position in the U.S. and euro commercial paper and bank loan markets. Commercial paper outstanding totaled \$1.8 billion as of March 31, 2024 and \$0.2 billion as of September 30, 2023.
  - The Company maintains a shelf registration statement with the SEC under which it may issue additional debt securities, ordinary shares, preferred shares, depository shares, warrants purchase contracts and units that may be offered in one or more offerings on terms to be determined at the time of the offering. The Company anticipates that the proceeds of any offering would be used for general corporate purposes, including repayment of indebtedness, acquisitions, additions to working capital, repurchases of ordinary shares, dividends, capital expenditures and investments in the Company's subsidiaries.
  - The Company also has the ability to draw on its \$2.5 billion revolving credit facility which is scheduled to expire in December 2028 or its \$0.5 billion revolving credit facility which is scheduled to expire in December 2024. There were no draws on the revolving credit facilities as of March 31, 2024 and September 30, 2023.
  - In April 2024, the Company and its wholly-owned subsidiary, Tyco Fire & Security Finance S.C.A, co-issued \$700 million unsecured, unsubordinated senior notes with an interest rate of 5.50% which is due April 2029.

- The Company's ability to access the global capital markets and the related cost of financing is dependent upon, among other factors, the Company's credit ratings. As of March 31, 2024, the Company's credit ratings and outlook were as follows:

Rating Agency	Short-Term Rating	Long-Term Rating	Outlook
S&P	A-2	BBB+	Stable
Moody's	P-2	Baa2	Positive

The security ratings set forth above are issued by unaffiliated third party rating agencies and are not a recommendation to buy, sell or hold securities. The ratings may be subject to revision or withdrawal by the assigning rating organization at any time.

- Financial covenants in the Company's revolving credit facilities require a minimum consolidated shareholders' equity attributable to Johnson Controls of at least \$3.5 billion at all times. The revolving credit facility also limits the amount of debt secured by liens that may be incurred to a maximum aggregated amount of 10% of consolidated shareholders' equity attributable to Johnson Controls for liens and pledges. For purposes of calculating these covenants, consolidated shareholders' equity attributable to Johnson Controls is calculated without giving effect to (i) the application of Accounting Standards Codification ("ASC") 715-60, "Defined Benefit Plans - Other Postretirement," or (ii) the cumulative foreign currency translation adjustment. As of March 31, 2024, the Company was in compliance with all covenants and other requirements set forth in its credit agreements and the indentures governing its notes, and expects to remain in compliance

for the foreseeable future. None of the Company's debt agreements limit access to stated borrowing levels or require accelerated repayment in the event of a decrease in the Company's credit rating.

- The Company earns a significant amount of its income outside of the parent company. Outside basis differences in these subsidiaries are deemed to be permanently reinvested except in limited circumstances. However, in the first quarter of fiscal 2024, the Company provided income tax expense related to a change in the Company's assertion over the outside basis differences of the Company's investment in certain consolidated subsidiaries. The Company currently does not intend nor foresee a need to repatriate undistributed earnings included in the outside basis differences other than in tax efficient manners. The Company's intent is to reduce basis differences only when it would be tax efficient. The Company expects existing U.S. cash and liquidity to continue to be sufficient to fund the Company's U.S. operating activities and cash commitments for investing and financing activities for at least the next twelve months and thereafter for the foreseeable future. In the U.S., should the Company require more capital than is generated by its operations, the Company could elect to raise capital in the U.S. through debt or equity issuances. The Company has borrowed funds in the U.S. and continues to have the ability to borrow funds in the U.S. at reasonable interest rates. In addition, the Company expects existing non-U.S. cash, cash equivalents, short-term investments and cash flows from operations to continue to be sufficient to fund the Company's non-U.S. operating activities and cash commitments for investing activities, such as material capital expenditures, for at least the next twelve months and thereafter for the foreseeable future. Should the Company require more capital at its Luxembourg and Ireland holding and financing entities, other than amounts that can be provided in tax efficient methods, the Company could also elect to raise capital through debt or equity issuances. These alternatives could result in increased interest expense or other dilution of the Company's earnings.
- The Company may from time to time purchase its outstanding debt through open market purchases, privately negotiated transactions or otherwise. Purchases or retirement of debt, if any, will depend on prevailing market conditions, liquidity requirements, contractual restrictions and other factors. The amounts involved may be material.
- Refer to Note 10, "Debt and Financing Arrangements," and Note 21, "Commitments and Contingencies" of the notes to the consolidated financial statements for additional information on debt balances, the water systems AFFF settlement agreement and items impacting capitalization.

#### **Co-Issued Securities: Summarized Financial Information**

The following information is provided in compliance with Rule 13-01 of Regulation S-X under the Securities Exchange Act of 1934 with respect to the following unsecured, unsubordinated senior notes (collectively, ("the Notes) which were issued by Johnson Controls International plc ("Parent Company") and Tyco Fire & Security Finance S.C.A. ("TFSCA")):

- €500 million aggregate principal amount of 0.375% Senior Notes due 2027
- €600 million aggregate principal amount of 3.000% Senior Notes due 2028
- \$700 million aggregate principal amount of 5.500% Senior Notes due 2029
- \$625 million aggregate principal amount of 1.750% Senior Notes due 2030
- \$500 million aggregate principal amount of 2.000% Sustainability-Linked Senior Notes due 2031
- €500 million aggregate principal amount of 1.000% Senior Notes due 2032
- \$400 million aggregate principal amount of 4.900% Senior Notes due 2032
- €800 million aggregate principal amount of 4.25% Senior Notes due 2035

TFSCA is a corporate partnership limited by shares (*société en commandite par actions*) incorporated and organized under the laws of the Grand Duchy of Luxembourg ("Luxembourg") and is a wholly-owned consolidated subsidiary of the Company that is 99.924% owned directly by the Parent Company and 0.076% owned by TFSCA's sole general partner and manager, Tyco Fire & Security S.à r.l., which is itself wholly-owned by the Company. The Parent Company is incorporated and organized under the laws of Ireland. TFSCA is incorporated and organized under the laws of Luxembourg. The bankruptcy, insolvency, administrative, debtor relief and other laws of Luxembourg or Ireland, as applicable, may be materially different from, or in conflict with, those of the United States, including in the areas of rights of creditors, priority of governmental and other creditors, ability to obtain post-petition interest and duration of the proceeding. The application of these laws, or any conflict among them, could adversely affect noteholders' ability to enforce their rights under the Notes in those jurisdictions or limit any amounts that they may receive.

The following table presents the net loss attributable to the Parent Company and TFSCA (collectively, the "Obligor Group") and the net income (loss) attributable to intercompany transactions between the Obligor Group and subsidiaries of the Parent Company other than TFSCA (collectively, the "Non-Obligor Subsidiaries") which are excluded from the Net loss attributable to the Obligor Group (in millions):

	Six Months Ended March 31, 2024	Year Ended September 30, 2023
Net loss attributable to the Obligor Group	\$ (282)	\$ (458)
Net income (loss) attributable to intercompany transactions	143	(139)

The Obligor Group does not have sales, gross profit or amounts attributable to noncontrolling interests.

The following table presents summarized balance sheet information of the Obligor Group and intercompany balances between the Obligor Group and the Non-Obligor Subsidiaries which are excluded from the Obligor Group amounts (in millions):

	Obligor Group		Intercompany Balances	
	March 31, 2024	September 30, 2023	March 31, 2024	September 30, 2023
Current assets	\$ 282	\$ 26	\$ 654	\$ 5,608
Noncurrent assets	250	270	8,029	1,882
Current liabilities	5,330	3,652	3,025	9,289
Noncurrent liabilities	7,175	7,585	9,412	3,462

The same accounting policies as described in Note 1, "Summary of Significant Accounting Policies," of the Company's Annual Report on 10-K for the year ended September 30, 2023 are used by the Parent Company and each of its subsidiaries in connection with the summarized financial information presented above.

#### **New Accounting Standards**

Refer to Note 2, "New Accounting Standards," of the notes to the consolidated financial statements.

#### **Critical Accounting Estimates**

The Company prepares its consolidated financial statements in conformity with accounting principles generally accepted in the United States of America ("U.S. GAAP"). This requires management to make estimates and assumptions that affect reported amounts and related disclosures. Actual results could differ from those estimates. The Company's critical accounting estimates requiring significant judgement that could materially impact the Company's results of operations, financial position and cash flows are described in Management's Discussion and Analysis of Financial Condition and Results of Operations included in the Company's Annual Report on Form 10-K for the year ended September 30, 2023. Since the date of the Company's most recent Annual Report, there have been no material changes in the Company's critical accounting estimates or assumptions.

#### **ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK**

As of March 31, 2024, the Company had not experienced any adverse changes in market risk exposures that materially affected the quantitative and qualitative disclosures presented in its Annual Report on Form 10-K for the year ended September 30, 2023.

#### **ITEM 4. CONTROLS AND PROCEDURES**

##### **Evaluation of Disclosure Controls and Procedures**

The Company's management, with the participation of the Company's Chief Executive Officer and Chief Financial Officer, has evaluated the effectiveness of the Company's disclosure controls and procedures (as such term is defined in Rule 13a-15(e) under the Securities Exchange Act of 1934, as amended (the "Exchange Act")) as of March 31, 2024. The Company's disclosure controls and procedures are designed to ensure that information required to be disclosed by the Company in the

reports it files or submits under the Exchange Act, is recorded, processed, summarized and reported, within the time periods specified in the Commissions' rules and forms, and that such information is accumulated and communicated to the Company's management, including the Company's Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

Based on such evaluations, the Company's Chief Executive Officer and Chief Financial Officer have concluded that, as of March 31, 2024, the Company's disclosure controls and procedures were not effective because of the material weakness in its internal control over financial reporting discussed below and described in the Company's Annual Report on Form 10-K for the year ended September 30, 2023. Notwithstanding the material weakness in internal control over financial reporting, management believes and has concluded that the consolidated financial statements included in this Quarterly Report on Form 10-Q fairly present, in all material respects, the Company's financial position, results of operations and cash flows for the periods presented in conformity with U.S. generally accepted accounting principles.

#### **Remediation Plan for Material Weakness in Internal Control Over Financial Reporting**

The Company is committed to remediating the above noted material weakness and has actively implemented measures designed to help ensure the material weakness is remediated as soon as possible. Although some remediation measures have been completed, other actions with respect to the Company's remediation plan are ongoing and include, among other things, the following:

- engaging security specialists to assist in the review, assessment and remediation of the Company's IT controls;
- additional strengthening of access requirements and unauthorized access detection to the Company's financial reporting systems; and
- implementing additional procedures to facilitate more effective backup and recovery of the Company's financial reporting systems.

Though the remediation plan is subject to continual review and revision, the Company expects the remediation plan described above will address the identified material weakness. The remediation plan is subject to oversight by the Audit Committee of the Board of Directors and the identified material weakness will not be considered remediated until the remediation plan has been fully implemented, the applicable controls operate for a sufficient period of time, and the Company has concluded that newly implemented controls are operating effectively.

#### **Changes in Internal Control Over Financial Reporting**

There have been no significant changes in the Company's internal control over financial reporting during the three months ended March 31, 2024 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

### **PART II. OTHER INFORMATION**

#### **ITEM 1. LEGAL PROCEEDINGS**

Refer to Note 21, "Commitments and Contingencies," of the notes to the consolidated financial statements for discussion of environmental, asbestos, self-insured liabilities and other litigation matters, which is incorporated by reference herein and is considered an integral part of Part II, Item 1, "Legal Proceedings."

#### **ITEM 1A. RISK FACTORS**

There have been no material changes to the disclosure regarding risk factors presented in Part I, Item 1A, of the Company's Annual Report on Form 10-K for the year ended September 30, 2023.

#### **ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS**

As of March 31, 2024, approximately \$2.5 billion remains available under the share repurchase program which was authorized by the Company's Board of Directors in March 2021. The share repurchase authorization does not have an expiration date and may be amended or terminated by the Board of Directors at any time without prior notice. During the three and six months ended March 31, 2024, the Company repurchased \$474 million of its ordinary shares on an open market.

The following table presents information regarding the repurchase of the Company's ordinary shares by the Company as part of its publicly announced program during the three months ended March 31, 2024.

Period	Total Number of Shares Purchased	Average Price Paid per Share	Total Number of Shares Purchased as Part of the Publicly Announced Program	Approximate Dollar Value of Shares that May Yet be Purchased under the Programs
01/01/24 - 01/31/24	—	\$ —	—	\$ 2,989,400,398
02/01/24 - 02/29/24	3,883,612	56.12	3,883,612	2,771,452,100
03/01/24 - 3/31/24	4,133,291	62.04	4,133,291	2,515,041,710

#### ITEM 5. OTHER INFORMATION

##### Officer Rule 10b5-1 Plan

During the three months ended March 31, 2024, except as provided below, none of the Company's directors or Section 16 officers adopted, amended or terminated a "Rule 10b5-1 trading arrangement" or "non-Rule 10b5-1 trading arrangement" (as each term is defined in Item 408(a) of Regulation S-K).

##### *Nathan Manning Rule 10b5-1 Plan*

On January 31, 2024, Nathan Manning, the Company's Vice President and Chief Operations Officer, Global Field Operations , entered into a Rule 10b5-1 trading arrangement (the "Manning 10b5-1 Plan") during the Company's fiscal second quarter open trading window. The Manning 10b5-1 Plan contemplates the sale in regular intervals of 10,669 ordinary shares of Company stock previously issued upon the vesting of restricted stock unit awards. The Manning 10b5-1 Plan is expected to become effective on or about May 6, 2024 and is scheduled to terminate upon the earlier of the sale of all shares contemplated under the Manning 10b5-1 Plan or October 31, 2024.

**ITEM 6. EXHIBITS****INDEX TO EXHIBITS**

<u>Exhibit No.</u>	<u>Description</u>
10.1	<a href="#">Settlement Agreement for Water Systems by and among Tyco Fire Products LP and the representatives of certain U.S. active public water systems as set forth therein, dated April 12, 2024 (incorporated by reference to Exhibit 10.1 to the registrant's Current Report on Form 8-K dated April 12, 2024)*</a>
10.2	<a href="#">Restrictive covenants applicable to equity award agreements beginning March 2024 (filed herewith) **</a>
31.1	<a href="#">Certification by the Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (filed herewith)</a>
31.2	<a href="#">Certification by the Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (filed herewith)</a>
32.1	<a href="#">Certification of Periodic Financial Report by the Chief Executive Officer and Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (filed herewith)</a>
101	The following materials from Johnson Controls International plc's Quarterly Report on Form 10-Q for the quarter ended March 31, 2024, formatted in iXBRL (Inline Extensible Business Reporting Language): (i) the Consolidated Statements of Financial Position, (ii) the Consolidated Statements of Income, (iii) the Consolidated Statements of Comprehensive Income, (iv) the Consolidated Statements of Cash Flows, (v) the Consolidated Statements of Shareholders' Equity and (vi) Notes to Consolidated Financial Statements.
104	Cover Page Interactive Data File (formatted in iXBRL and contained in Exhibit 101)
*	The registrant has omitted certain schedules and other similar attachments to such agreement pursuant to Item 601(a)(5) of Regulation S-K. The Company will furnish a copy of such omitted documents to the SEC upon request.
**	Management contract or compensatory plan

SIGNATURES

Pursuant 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.

JOHNSON CONTROLS INTERNATIONAL PLC

Date: May 1, 2024

By: */s/ Marc Vandiepenbeeck*

Marc Vandiepenbeeck

Executive Vice President and  
Chief Financial Officer

**Johnson Controls International plc**  
**Restrictive Covenants for Award Agreements**

In consideration for the Participant's opportunity to earn the benefits provided in this Award Agreement (regardless of whether benefits under this Award Agreement are actually realized by the Participant), and except as prohibited by law, the Participant agrees as follows:

1. **Non-Competition.** Participant agrees that during his or her employment with the Company or its Subsidiaries, and for the period of one (1) year following the Participant's Termination of Employment for any reason, or such longer period of non-competition as is included in any offer letter or any other agreement between Participant and the Company or its Subsidiaries or Affiliates, the Participant will not directly or indirectly, own, manage, operate, control (including indirectly through a debt, equity investment, or otherwise), provide services to, or be employed by, any person or entity engaged in any business that (i) conducts or is planning to conduct a business in competition with any business conducted or planned by the Company or any of its Subsidiaries (1) that is located in a region in which Participant had substantial responsibilities during the twenty-four (24) month period preceding Participant's Termination of Employment, and (2) for which Participant (A) was materially involved in during the twenty-four (24) month period preceding Participant's Termination of Employment, or (B) had knowledge of operations or substantial exposure to during the twenty-four (24) month period preceding Participant's Termination of Employment; or (ii) designs, develops, produces, offers for sale or sells a product or service that can be used as a substitute for, or is generally intended to satisfy the same customer needs for, any one or more products or services designed, developed, manufactured, produced or offered for sale or sold by any of the Company's business (1) that is located in a region in which Participant had substantial responsibilities during the twenty-four (24) month period preceding Participant's Termination of Employment, and (2) for which Participant (A) was materially involved in during the twenty-four (24) month period preceding Participant's Termination of Employment, or (B) had knowledge of operations or substantial exposure to during the twenty-four (24) month period preceding Participant's Termination of Employment.
2. **Non-Solicitation of Customers.** Participant agrees that during his or her employment with the Company or its Subsidiaries, and for the period of two (2) years following the Participant's Termination of Employment for any reason, or such longer period of non-solicitation as is included in any offer letter or any other agreement between Participant and the Company or its Subsidiaries or Affiliates, the Participant will not, directly or indirectly, on his or her own behalf or on behalf of another (i) solicit, aid or induce any customer of the Company or any of its Subsidiaries that Participant was responsible for, including supervised, managed or directed by Participant, to purchase goods or services then sold by the Company or its Subsidiaries from another person or entity, or assist or aid any other person or entity in identifying or soliciting any such customer, or (ii) solicit, aid or induce any customer that was pursued by the Company and with which Participant had contact, participated in the contact, or about which Participant had knowledge of Confidential Information by reason of Participant's relationship with the Company within the twenty-four (24) month period preceding Participant's Termination of Employment if that sale or service would be located in a region with respect to which the Participant had substantial responsibilities while employed by the Company or its Subsidiaries.
3. **Non-Solicitation of Employees.** Participant agrees that during his or her employment with the Company or its Subsidiaries, and for the period of two (2) years following the Participant's Termination of Employment for any reason, or such longer period of non-solicitation as is included in any offer letter or any other agreement between Participant and the Company or its Subsidiaries or Affiliates, the Participant will not, directly or indirectly, on his or her own behalf or on behalf of another solicit, recruit, aid or induce employees of the Company or any of its Subsidiaries (a) with whom Participant has had material contact with during the twelve (12) months period preceding Participant's Termination of Employment and who had access to Confidential Information, trade secrets or customer relationships; or (b) who were directly managed by or reported to Participant as of the date of

Participant's Termination of Employment to leave their employment with the Company or its Subsidiaries in order to accept employment with or render services to another person or entity unaffiliated with the Company or its Subsidiaries, or hire or knowingly take any action to assist or aid any other person or entity in identifying or hiring any such employee.

**4. Confidentiality.** In consideration for the Participant's opportunity to earn the benefits provided in this Award Agreement (regardless of whether benefits under this Award Agreement are actually realized by the Participant) and for the Company's and its Subsidiaries' promise to provide Participant with confidential and competitively sensitive information from time to time concerning, among other things, the Company and its Subsidiaries strategies, objectives, performance and business prospects, the Participant agrees that during his or her employment with the Company or its Subsidiaries, and until such time thereafter as the Confidential Information is no longer confidential through no fault of the Participant, the Participant shall not use or disclose any Confidential Information except for the benefit of the Company or its Subsidiaries in the course of the Participant's employment, and shall not use or disclose any Confidential Information in competition with or to the detriment of the Company or its Subsidiaries, or for the benefit of the Participant or anyone else other than the Company or its Subsidiaries. Notwithstanding the foregoing, nothing herein shall prohibit the Participant from reporting or otherwise disclosing possible violations of state, local or federal law or regulation to any governmental agency or entity, or making other disclosures that, in each case, are protected under whistleblower provisions of local, state or federal law or regulation. Nothing in this Agreement is intended to discourage or restrict Employee from reporting any theft of trade secrets pursuant to the Defend Trade Secrets Act of 2016 ("DTSA") or other applicable state or federal law. The DTSA provides: An individual shall not be held criminally or civilly liable under any federal or state trade secret law for the disclosure of a trade secret that: (a) is made (i) in confidence to a federal, state or local government official, either directly or indirectly, or to any attorney; and (ii) solely for the purpose of reporting or investigating a suspected violation or law; or (b) is made in a complaint or other document filed in a lawsuit or other proceeding, if such filing is made under seal. An individual who files a lawsuit for retaliation by an employer for reporting a suspected violation of law may disclose the trade secret to an attorney for the individual and use the trade secret information in the court proceeding, if the individual (a) files any document containing the trade secret under seal; and (b) does not disclose the trade secret, except pursuant to court order.

"Confidential Information" means any information that is not generally known outside the Company and its Subsidiaries, relating to any phase of business of the Company or any Affiliate, whether existing or foreseeable, including information conceived, discovered or developed by the Participant. Confidential Information includes, but is not limited to: project files, product designs, drawings, sketches and processes; production characteristics; testing procedures and results thereof; manufacturing methods, processes, techniques and test results; plant layouts, tooling, engineering evaluations and reports; business plans, financial statements and projections; operating forms (including contracts) and procedures; payroll and personnel records; non-public marketing materials, plans and proposals; customer lists and information, and target lists for new clients and information relating to potential clients; software codes and computer programs; training manuals; policy and procedure manuals; raw materials sources, price and cost information; administrative techniques and documents; and any information received by the Company under an obligation of confidentiality to a third party.

**5 . Non-Disparagement.** Each of the Participant and the Company and its Affiliates (for purposes hereof, the Company and its Subsidiaries shall mean only the officers and directors thereof and not any other employees) agrees not to make any statements that disparage the other party, or in the case of the Company or its Subsidiaries, their respective Subsidiaries, employees, officers, directors, products or services. Notwithstanding the foregoing, statements made in the course of sworn testimony in administrative, judicial or arbitral proceedings (including, without limitation, depositions in connection with such proceedings) shall not be subject to the limitations in this paragraph.

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6. **Remedies.** Irreparable injury will result to the Company, and to its business, in the event of a breach by the Participant of any of the Participant's covenants and commitments under this Award, including the covenants of non-competition and non-solicitation. Therefore, in the event of a breach of such covenants and commitments, in the sole discretion of the Company, any of the Participant's unvested Restricted Shares or Restricted Share Units shall be immediately rescinded and the Participant will forfeit any rights he or she has with respect thereto. Furthermore, by acknowledging this Award, and not declining the Award, in the event of such a breach, upon demand by the Company, the Participant hereby agrees and promises immediately to deliver to the Company the number of Shares (or, in the discretion of the Company, the cash value of said Shares) the Participant received for Restricted Share Units that vested or were delivered at any time from and after the earlier of (i) the date of the breach or (ii) twenty-four months prior to the Participant's Termination of Employment. In the event the Shares subject to repayment are, at the time of the Company's demand, allocated to a deferred compensation plan, the Company may forfeit such Shares and the Participant will forfeit any rights he or she has with respect thereto. In addition, the Company reserves all rights to seek any and all remedies and damages permitted under law, including, but not limited to, injunctive relief, equitable relief and compensatory damages. The Participant further acknowledges and confirms that the terms of this Attachment, including but not limited to the time and geographic restrictions, are reasonable, fair, just and enforceable by a court.

**CERTIFICATIONS**

I, George R. Oliver, of Johnson Controls International plc, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Johnson Controls International plc;
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;
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;
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:
  - 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;
  - 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;
  - 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; and
  - 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; and
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 registrant's board of directors (or persons performing the equivalent functions):
  - 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; and
  - 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.

Date: May 1, 2024

*/s/ George R. Oliver*

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George R. Oliver  
Chairman and Chief Executive Officer

**CERTIFICATIONS**

I, Marc Vandiepenbeeck, of Johnson Controls International plc, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Johnson Controls International plc;
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;
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;
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:
  - 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;
  - 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;
  - 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; and
  - 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; and
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 registrant's board of directors (or persons performing the equivalent functions):
  - 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; and
  - 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.

Date: May 1, 2024

*/s/ Marc Vandiepenbeeck*

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Marc Vandiepenbeeck  
Executive Vice President and  
Chief Financial Officer

**CERTIFICATION OF PERIODIC FINANCIAL REPORTS**

We, George R. Oliver and Marc Vandiepenbeeck, of Johnson Controls International plc, certify, pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

1. the Quarterly Report on Form 10-Q for the quarter ended March 31, 2024 (Periodic Report) to which this statement is an exhibit fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)) and
2. information contained in the Periodic Report fairly presents, in all material respects, the financial condition and results of operations of Johnson Controls International plc.

Date: May 1, 2024

*/s/ George R. Oliver*

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George R. Oliver  
Chairman and Chief Executive Officer

*/s/ Marc Vandiepenbeeck*

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Marc Vandiepenbeeck  
Executive Vice President and  
Chief Financial Officer