

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

FORM 10-K

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

For the fiscal year ended

12/31/2022

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 No. 1-3157

INTERNATIONAL PAPER COMPANY

(Exact name of registrant as specified in its charter)

New York

13-0872805

(State or other jurisdiction of incorporation or organization)

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

6400 Poplar Avenue

Memphis, Tennessee

(Address of principal executive offices)

38197

(Zip Code)

Registrant's telephone number, including area code: 901 419-9000

Securities registered pursuant to Section 12(b) of the Act:

Title of each class

Trading symbol(s)

Name of each exchange on which registered

Common Shares

IP

New York Stock Exchange

Securities Registered Pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act.

Yes No

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 (section 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 smaller reporting company or an emerging growth company. See 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 Non-accelerated filer Smaller reporting company 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 has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

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

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b).

The aggregate market value of the Company's outstanding common stock held by non-affiliates of the registrant, computed by reference to the closing price as reported on the New York Stock Exchange, as of the last business day of the registrant's most recently completed second fiscal quarter (June 30, 2022) was approximately \$ 15,087,030,329.

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The number of shares outstanding of the Company's common stock as of February 10, 2023 was 350,084,361 .

Documents incorporated by reference:

Portions of the registrant's proxy statement filed within 120 days of the close of the registrant's fiscal year in connection with registrant's 2023 annual meeting of shareholders are incorporated by reference into Part III of this Form 10-K.

INTERNATIONAL PAPER COMPANY
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PART I.

ITEM 1. BUSINESS

GENERAL

International Paper Company (the "Company" or "International Paper", which may also be referred to as "we" or "us") is a global producer of renewable fiber-based packaging and pulp products with manufacturing operations in North America, Latin America, Europe and North Africa. We are a New York corporation, incorporated in 1941 as the successor to the New York corporation of the same name organized in 1898. You can learn more about us by visiting our website at www.internationalpaper.com.

In the United States, at December 31, 2022, the Company operated 24 pulp and packaging mills, 164 converting and packaging plants, 16 recycling plants and three bag facilities. Production facilities at December 31, 2022 in Canada, Europe, North Africa and Latin America included four pulp and packaging mills, 37 converting and packaging plants, and two recycling plants. We operate a printing and packaging products distribution business principally through six branches in Asia. Substantially all of our businesses have experienced, and are likely to continue to experience, cycles relating to industry capacity and general economic conditions.

For management and financial reporting purposes, our businesses are separated into two segments: Industrial Packaging and Global Cellulose Fibers. A description of these business segments can be found on pages 31 and 32 of Item [7. Management's Discussion and Analysis of Financial Condition and Results of Operations](#).

The Company recently announced it has reached an agreement to sell its equity investment in Ilim S.A. ("Ilim"), and has also received from the same purchaser an indication of interest to purchase its equity investment in JSC Ilim Group ("Ilim Group" together with Ilim, the Ilim joint venture). As a result, all current and historical results of the Ilim investment reportable segment are presented as Discontinued Operations, net of taxes. See discussion in [Note 11 - Equity Method Investments](#) on page 66 through 68 of [Item 8. Financial Statements and Supplementary Data](#).

From 2018 through 2022, International Paper's capital spending approximated \$5.0 billion, excluding mergers and acquisitions. These expenditures reflect our continuing efforts to use our capital strategically to improve product quality and environmental performance, as well as lower costs, maintain

reliability of operations and deploy strategic capital for capacity expansion. Capital spending in 2022 was approximately \$931 million and is expected to be approximately \$1.0 billion to \$1.2 billion in 2023. You can find more information about capital spending on pages 35 and 36 of [Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations](#).

Discussions of acquisitions can be found in [Note 7 Acquisitions](#) on page 62 of [Item 8. Financial Statements and Supplementary Data](#).

You can find discussions of restructuring charges and other special items on page 31 of [Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations](#).

Our strategic framework, The IP Way Forward, ensures that our business strategy delivers sustainable outcomes for all of our stakeholders – employees, customers, suppliers, communities, governmental and non-governmental organizations and shareholders – for generations to come. Our approach to sustainability considers our entire value chain, from focusing on sourcing raw materials responsibly and working safely, to making renewable, recyclable products and providing a market for recovered products. To help inform and prioritize the focus of our sustainability strategy, we have engaged with internal and external stakeholders using a variety of methods, assessed key issues and associated risks and opportunities, and incorporated environmental, social and governance (ESG) considerations into our processes. Additionally, in 2020, we established our Vision 2030 goals with the purpose of promoting healthy and abundant forests, thriving people and communities, sustainable operations and renewable solutions. Certain of the goals are discussed in more detail below.

Throughout this Annual Report on Form 10-K, we "incorporate by reference" certain information in parts of other documents filed with the Securities and Exchange Commission ("SEC"). The SEC permits us to disclose important information by referring to it in that manner. Please refer to such information. Our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and proxy statements, along with all other reports and any amendments thereto filed with or furnished to the SEC, are publicly available free of charge on the Investor Relations section of our website at www.internationalpaper.com as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC. Our website contains a significant amount of information about the Company, including our SEC filings and financial and other information for investors. The information that we post

on our website could be deemed to be material information. We encourage investors, the media, and others interested in the Company to visit this website from time to time, as information is updated and new information is posted. The information contained on or connected to our website, however, is not incorporated by reference into this Form 10-K and should not be considered part of this or any other report that we file with or furnish to the SEC. Our internet address is included as an inactive textual reference only.

[HUMAN CAPITAL](#)

EMPLOYEES

As of December 31, 2022, we have approximately 39,000 employees, nearly 32,000 of whom are located in the United States. Of our U.S. employees, approximately 22,700 are hourly, with unions representing approximately 14,000 employees. Approximately 10,600 of this number are represented by the United Steelworkers union ("USW").

International Paper, the USW, and several other unions have entered into four master agreements covering various U.S. mills and converting facilities. These master agreements cover several specific items, including wages, select benefit programs, successorship, employment security, and health and safety. Individual facilities continue to have local agreements for other subjects not covered by the master agreements. If local facility agreements are not successfully negotiated at the time of expiration, under the terms of the master agreements the local contracts will automatically renew with the same terms in effect. The master agreements cover the majority of our union represented mills and converting facilities. In addition, International Paper is party to a master agreement with District Council 2, International Brotherhood of Teamsters, covering additional converting facilities.

SAFETY

The safety of our employees remains the primary focus of our leaders. Our goal is to create a 100% injury-free workplace for our employees and contractors. To accomplish this goal, we focus on the IP Way of doing things - we do the right things, in the right ways, for the right reasons, all of the time. Our stated Vision 2030 Goal is to achieve zero serious injuries for employees and contractors. We regularly conduct safety leadership training at all levels of the Company. In 2022, 93% of our sites operated without a serious injury, which we define as a life-altering specific injury, to our employees.

HUMAN CAPITAL MANAGEMENT

The attraction, retention and development of our employees is critical to our success. We accomplish this, in part, by developing the capabilities of our team members through our continuous learning, development and performance management programs. One such program is our REACH (Recruit, Engage, Align College Hires) program through which we recruit and develop early-career engineers and safety professionals for our U.S. mills, preparing them to become future leaders. We invest in the growth and development of our employees by providing a multi-dimensional approach to learning that empowers, intellectually grows, and professionally develops our employees. Our HR Talent Management Team hosts online Global New Employee Orientation for employees and each business conducts onsite new hire integration training unique to its business and/or facility. We provide continuing education courses that are relevant to our industry and job functions within the Company, including both instructor lead and online training through our MyLearning platform. In addition, we have created learning paths for specific positions that are designed to encourage an employee's advancement and growth within our organization, such as our Global Manufacturing Training Initiative, which provides training services to hourly operations and maintenance employees in our mills in a standardized and structured manner. On the converting side of our business, approximately 200 front line and future leaders participated in our multi-day in-person Leadership Application and Professional Development and Manufacturing Management Associate Programs. Across the enterprise in 2022, employees completed 3.4 million learning activities through our Learning Management Service (LMS) system. The IP Leadership Institute offers both LMS and other courses for individual contributors, people leaders and teams. We also offer a peer mentor program and leadership and customer service training to support and develop our employees. Moreover, we offer tuition reimbursement programs for employees who desire to receive additional outside education to prepare for other positions at the Company, as well as student loan assistance to help employees repay qualified student loans. These resources provide employees with the skills and support they need to achieve their career goals, build management skills and become leaders within our Company.

The labor market for both hourly and salaried workers has recently been increasingly competitive. For additional information regarding risks related to the current labor market, see **[Item 1A. Risk Factors – WE OPERATE IN A CHALLENGING MARKET FOR TALENT AND MAY FAIL TO ATTRACT AND](#)**

RETAIN QUALIFIED PERSONNEL, INCLUDING KEY MANAGEMENT PERSONNEL.

COMPENSATION AND BENEFITS

We view compensation and benefits as part of how we attract, engage and retain our talented workforce. We do so by rewarding performance while ensuring competitive compensation in our local markets around the world. We continually evaluate our compensation and benefits so that we offer optimal compensation programs and remain a leading employer of choice in the areas in which we operate.

DIVERSITY AND INCLUSION

The Company believes in an inclusive workforce, where employees of diverse backgrounds are represented, engaged and empowered to contribute innovative ideas and influence decisions. Our stated Vision 2030 goal is to achieve 30% overall representation of women and 50% women in salaried positions, 30% racial and ethnic minority representation in U.S. salaried positions, and to implement regional diversity plans in non-U.S. locations. To foster a more diverse and inclusive culture, the Company is focused on promoting a culture of diversity and inclusion that leverages the talents of all employees, and implementing practices that attract, recruit and retain diverse top talent. We have a Global Diversity and Inclusion Council comprised of senior leaders in the Company. The Company supports employee-led networking groups that are open to all employees and provide a forum to communicate and exchange ideas, build a network of relationships across the Company, and pursue personal and professional development, such as the Women in International Paper Employee Networking Circle (Women in IP), African American Employee Networking Circle (IPMOVE), LGBTQ Employee Networking Circle (IPride) and a Veterans Employee Networking Circle (IPVets). We also sponsor diversity and inclusion (D&I) scholarships at universities, recognize D&I awareness months, conduct training and host inclusion forums, mentoring boards and team-level courses which further our diversity and inclusion goals. We have a global workforce and have implemented programs around the globe to create diverse, inclusive workplaces. We have increased representation of engineers in our REACH program. Our overall full-time REACH diversity hiring since 2018 is approximately 50%. Moreover, we have developed a Diversity Acquisition Framework for U.S. Colleges to guide our enterprise diversity efforts as we work towards accomplishing our Vision 2030 goals.

The Company also has been recognized for the diversity of its Board of Directors. The make-up of our Board of Directors reflects our efforts to seek qualified Board candidates with diverse backgrounds including, but not limited to, such factors as race, gender, and ethnicity. The current composition of our Board, as noted below, reflects those efforts and the importance of diversity to the Board:

- 27% women, 27% ethnically diverse, 18% African-American;
- 60% of the Board's standing committees are chaired by women; and
- Two women directors and two African-American directors have joined in the last several years.

GLOBAL CITIZENSHIP AND COMMUNITY ENGAGEMENT

We encourage our employees to support the communities in which they live and in which the Company operates. Our global citizenship and community engagement efforts extend across the globe and support social and educational needs. To that end, in 2022 we invested more than \$1.9 million to address critical needs in the communities in which we work and live. Our Vision 2030 goal is to strengthen the resilience of our communities and improve the lives of 100 million people in our communities, including through supporting education, reducing hunger, promoting health and wellness and supporting disaster relief. We are proud to have been named among the world's most ethical companies by Ethisphere for 16 consecutive years.

[COMPETITION AND COSTS](#)

The pulp and packaging sectors are large and fragmented, and the areas into which we sell our principal products are very competitive. Our products compete with similar products produced by other forest products companies. We also compete, in some instances, with companies in other industries and against substitutes for wood-fiber products.

Many factors influence the Company's competitive position, including price, cost, product quality and services. You can find more information about the impact of these factors on operating profits on pages 23 through 33 of [Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations](#). You can find information about the Company's manufacturing capacities on page A-3 of [Appendix II](#).

MARKETING AND DISTRIBUTION

The Company sells products directly to end users and converters, as well as through agents, resellers and distributors.

DESCRIPTION OF PRINCIPAL PRODUCTS

The Company's principal products are described on pages 31 and 32 of [Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations](#).

SALES VOLUMES BY PRODUCT

Sales volumes of major products for 2022, 2021 and 2020 were as follows:

SALES VOLUMES BY PRODUCT (a)

<i>In thousands of short tons (except as noted)</i>	2022	2021	2020
Industrial Packaging			
Corrugated Packaging (b)	10,202	10,787	10,671
Containerboard	2,642	2,893	3,097
Recycling	2,190	2,223	2,181
Saturated Kraft	188	186	158
Gypsum/Release Kraft	251	234	209
EMEA Packaging (b)	1,376	1,546	1,627
Brazilian Packaging (b)	—	—	271
Industrial Packaging	16,849	17,869	18,214
Global Cellulose Fibers (<i>in thousands of metric tons</i>) (c)	2,893	2,970	3,159

(a) Includes third-party and intersegment sales and excludes sales of equity investees.

(b) Volumes for corrugated box sales reflect consumed tons sold ("CTS"). Board sales by these businesses reflect invoiced tons.

(c) Includes North American volumes and internal sales to mills.

ENVIRONMENTAL PROTECTION

As responsible stewards of people and communities, natural resources and capital, stewardship is one of the Company's core values. Our Vision 2030 Goals provide a framework to build a better future for people, the planet and the Company in the areas of healthy and abundant forests, thriving people and communities, sustainable operations and renewable solutions. Through these efforts and more, the Company tackles the toughest issues in the value chain to improve its environmental footprint and promote the long-term sustainability of natural capital.

As part of its business, the Company is subject to extensive and increasingly stringent federal, state local, and international laws and regulations governing the protection of the environment. For example, Company manufacturing processes involve discharges to water, air emissions, water intake and waste handling and disposal activities, all of which are subject to a variety of environmental laws and regulations, along with requirements of environmental permits or analogous authorizations issued by various governmental authorities. In addition, new environmental laws or regulations impacting our facilities around the world are routinely passed or proposed. Our continuing objectives include: (1)

controlling emissions and discharges from our facilities to avoid adverse impacts on the environment, and (2) maintaining compliance with applicable laws and regulations. The Company spent approximately \$30 million in 2022 for capital projects to control environmental releases into the air and water, and to assure environmentally sound management and disposal of waste. We expect to spend approximately \$39 million in 2023 for environmental capital projects. Capital expenditures on environmental projects for 2024 and 2025, respectively, are anticipated to be approximately \$35 million and \$26 million. It is possible that our capital expenditure assumptions, estimates and project completion dates may change, and our projections are subject to change due to items such as the finalization of ongoing engineering projects, varying costs or changes in environmental laws and regulations.

The Company has completed capital projects to meet the U.S. Environmental Protection Agency's ("EPA") maximum achievable control technology ("MACT") and risk and technology review ("RTR") regulations that require owners of specified pulp and paper process equipment and boilers to meet new air emissions standards for certain substances. As portions of these MACT and RTR regulations have

been remanded to EPA for further consideration it is not clear at this time what, if any, additional capital project expenditures might result from resolution of the open issues.

The Company has been named as a potentially responsible party ("PRP") in environmental remediation actions under various federal and state laws, including the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"). Many of these proceedings involve the cleanup of hazardous substances at large commercial landfills that received waste from many different sources. While joint and several liability is authorized under CERCLA and equivalent state laws, as a practical matter, liability for CERCLA cleanups is typically allocated among the many PRPs. There are other remediation costs typically associated with the cleanup of hazardous substances at the Company's current, closed or formerly-owned facilities, and recorded as liabilities on the balance sheet. For additional information regarding certain remediation actions, see [Note 14, Commitments and Contingent Liabilities](#) of [Item 8, Financial Statements and Supplementary Data](#) on pages 71 through 75. For additional information regarding risks associated with environmental matters, see [Item 1A, Risk Factors – WE ARE SUBJECT TO A WIDE VARIETY OF LAWS, REGULATIONS AND OTHER GOVERNMENTAL REQUIREMENTS THAT MAY CHANGE IN SIGNIFICANT WAYS, AND THE COST OF COMPLIANCE WITH SUCH REQUIREMENTS COULD IMPACT OUR BUSINESS AND RESULTS OF OPERATIONS.](#)

[CLIMATE CHANGE](#)

The Company recognizes the impacts of climate change on people and our planet. In order to manage climate-related risks, we are taking actions throughout our value chain to help advance a low-carbon economy. We aligned our annual sustainability reporting with the recommendations of the Task Force on Climate-Related Financial Disclosure (TCFD) in the 2022 reporting cycle (based upon data from 2021). We identify and evaluate physical and transition climate-related risks through our enterprise risk management process.

We transform renewable resources into recyclable products that people depend on every day. This cycle begins with sourcing renewable fiber from responsibly managed forests and recycled raw materials to create our products. We then use a circular manufacturing process that makes the most of resources and byproducts, while reducing the environmental impacts of our operations. At the end of use, the majority of

our low-carbon products are recycled into new products at a higher rate than any other base material. We work to advance the shift to a low-carbon, circular economy by designing products that are 100% reusable, recyclable or compostable.

Through improvements in operations, equipment, energy efficiency and fuel diversity, we have achieved company-wide reductions in Scope 1 and Scope 2 greenhouse gas (GHG) emissions. For example, we reduced our GHG emissions by approximately 20% between 2010 and 2020. Moreover, as part of our Vision 2030 goals, we have targeted incremental reductions of 35% in our Scope 1, 2, and 3 GHG emissions in comparison to 2019 levels. The Science Based Targets initiative (SBTi) approved these targets as consistent with levels required to meet the goals of the Paris Agreement, an agreement signed among over 170 countries, which became effective in November 2016. We intend to continue to evaluate and implement projects as we pursue this Vision 2030 GHG goal. This includes ongoing energy efficiency efforts and capital projects to phase out our most carbon intensive fuel sources (Scope 1) as well as developing GHG reduction strategies for our energy sourcing (Scope 2) and broader supply chain footprint (Scope 3).

We use carbon-neutral biomass and manufacturing residuals (rather than fossil fuels) to generate a majority of the manufacturing energy at our mills. We believe our efforts to advance sustainable forest management and restore forest landscapes are an important lever for mitigating climate change through carbon storage in forests.

INTERNATIONAL EFFORTS

The Paris Agreement went into effect in November 2016 and compels international efforts and voluntary commitments toward reducing the emissions of GHGs. Consistent with this objective, participating countries aim to balance GHG emissions generation and sequestration in the second half of this century or, in effect, achieve net-zero global GHG emissions.

To assist member countries in meeting GHG reduction obligations, the EU operates an Emissions Trading System ("EU ETS"). Our operations in the EU experience indirect impacts of the EU ETS through purchased power pricing. Neither the direct nor indirect impacts of the EU ETS have been material to the Company, but they could be material to the Company in the future depending on how the Paris Agreement's non-binding commitments or allocation of, and market prices for, GHG credits under existing rules evolve over the coming years.

U.S. EFFORTS, INCLUDING STATE, REGIONAL AND LOCAL MEASURES

Responses to climate change may result in regulatory risks as new laws and regulations aimed at reducing GHG emissions come into effect. The EPA manages regulations to: (i) control GHGs from mobile sources by adopting transportation fuel efficiency standards; (ii) control GHG emissions from new Electric Generating Units ("EGUs"); (iii) control emissions from new oil and gas processing operations; and (iv) require reporting of GHGs from sources of GHGs greater than 25,000 tons per year.

Several U.S. states, including states in which we operate facilities, have enacted or are considering legal measures to require the reduction and reporting of emissions of GHGs by companies and public utilities. California, New York and Virginia have already enacted such programs, although these regulations have not had, and are not expected to have a material impact on the Company. We monitor proposed programs in other states as well; however, it is unclear what impacts, if any, future state-level or local GHG rules will have on the Company's operations.

SUMMARY

Regulation related to GHGs and climate change continues to evolve in the areas of the world in which we do business. However, while it is likely that there will be increased governmental action regarding GHGs and climate change in the future, it is unclear what actions will be taken and when such actions will occur and at this time it is not reasonably possible to estimate the Company's costs of compliance with rules that have not yet been adopted or implemented and may not be adopted or implemented in the future. In addition to possible direct impacts, future legislation and regulation could have indirect impacts on the Company, such as higher prices for transportation, energy and other inputs, as well as more protracted air permitting processes, causing delays and higher costs to implement capital projects. The Company has controls and procedures in place to track GHG emissions from our facilities, as well as to stay informed about developments concerning possible climate-related laws, regulations, accords, and policies in the U.S. and in other jurisdictions where we operate. We regularly assess whether such developments may have a material effect on the Company, its operations or financial condition, and whether we have any related disclosure obligations under applicable rules and regulations.

Moreover, compliance with legal requirements related to GHGs and/or climate change which are currently in effect or may be enacted in the future may require

future expenditures to meet GHG emission reduction obligations. These obligations may include carbon taxes, the requirement to purchase GHG credits or the need to acquire carbon offsets. We may also incur significant expenditures in relation to our efforts to meet our internal targets or goals with respect to GHGs and climate change, including our Vision 2030 goal on GHGs as set forth above. Furthermore, in connection with complying with legal requirements and/or our efforts to meet our internal targets and goals, we have made and expect to continue to make capital and other investments to displace traditional fossil fuels, such as fuel oil and coal, with lower carbon alternatives, such as biomass and natural gas. Currently, these efforts and obligations have not materially impacted the Company but such efforts and obligations may have a material impact on the Company in the future.

We believe global citizenship is a key element of corporate governance promoted by our Board of Directors and senior management. The Public Policy and Environment Committee of the Board has overall oversight responsibility for global citizenship at the Company. This Committee reviews and oversees environmental sustainability (including climate change), public policy, legal, health and safety and technology issues. The Company's Governance Committee also has oversight of certain public policy and sustainability matters.

For additional information regarding risks associated with climate change, see Item [1A. Risk Factors](#) – **WE ARE SUBJECT TO PHYSICAL, OPERATIONAL, TRANSITIONAL AND FINANCIAL RISKS ASSOCIATED WITH CLIMATE CHANGE AND GLOBAL, REGIONAL AND LOCAL WEATHER CONDITIONS AS WELL AS BY LEGAL, REGULATORY AND MARKET RESPONSES TO CLIMATE CHANGE.**

Additional information regarding climate change and the Company is available in our 2021 Sustainability Report, and will be available in our upcoming 2022 Sustainability Report to be filed later in 2023, both of which can, or will be, found on our website at www.internationalpaper.com. The information contained in such reports is not incorporated by reference into this Form 10-K and should not be considered part of this or any other report that we file with or furnish to the SEC. Any targets or goals with respect to ESG matters discussed herein or in our sustainability reports as noted above are forward-looking statements and may be aspirational. These targets or goals are not guarantees of future results, and involve assumptions and known and unknown risks and uncertainties, some of which are beyond our control.

RAW MATERIALS

Raw materials essential to our businesses include wood fiber, purchased in the form of pulpwood, wood chips and old corrugated containers (OCC), and certain chemicals, including caustic soda, starch and adhesives. For further information concerning fiber supply purchase agreements, see page 36.

INFORMATION ABOUT OUR EXECUTIVE OFFICERS

Mark S. Sutton, 61, chairman (since January 1, 2015) & chief executive officer (since November 1, 2014). Mr. Sutton previously served as president & chief operating officer from June 1, 2014 to October 31, 2014, senior vice president - industrial packaging from November 2011 to May 31, 2014, senior vice president - printing and communications papers of the Americas from 2010 until 2011, senior vice president - supply chain from 2008 to 2009, vice president - supply chain from 2007 until 2008, and vice president - strategic planning from 2005 until 2007. Mr. Sutton joined International Paper in 1984. Mr. Sutton serves on the board of directors of The Kroger Company. He is a member of The Business Council and the Business Roundtable and serves on the American Forest & Paper Association board of directors. He also serves on the board of directors for Memphis Tomorrow and board of governors for New Memphis Institute. Mr. Sutton has been a director since June 1, 2014.

Clay R. Ellis, 52, senior vice president - global cellulose fibers and IP Asia since January 2023. Mr. Ellis previously served as senior vice president - enterprise operational excellence from December 2019 to December 2022 and vice president - manufacturing, global cellulose fibers from 2016 to December 2019. Prior to that, he served as vice president of pulp from 2014 to 2016, and vice president manufacturing, North American papers from 2012 to 2014. Mr. Ellis joined International Paper in 1992.

Aimee K. Gregg, 44, senior vice president, supply chain & information technology, since January 2023. Prior to this role, Ms. Gregg served as vice president and general manager, Containerboard & Recycling, from September 2020 until January 2023; vice president, Recycling & Recovered Fiber, from 2018 until 2020, and general manager, recycling, from 2016 to 2018. Ms. Gregg joined International Paper in 2002.

W. Thomas Hamic, 57, senior vice president - North American container and chief commercial officer since January 2023. Prior to that he served

as senior vice president - global cellulose fibers and enterprise commercial excellence from September 2020 to December 2022. Mr. Hamic previously served as senior vice president - containerboard and enterprise commercial excellence from December 2019 until September 2020. Mr. Hamic has also previously served as vice president and general manager - containerboard & recycling, North American container from June 2015 until December 2019. Mr. Hamic became vice president and general manager of the south area in container of the Americas in 2009, and he was appointed to the role of vice president, industrial packaging group's finance & strategy in 2010. Mr. Hamic joined International Paper in 1991.

Allison B. Magness, 45, senior vice president manufacturing & EH&S (environmental, health and safety) since January 2023. Prior to that she served as vice president, South Area, North American container from 2019 to 2022. Previously she had served in a number of roles including vice president, Manufacturing & Containerboard from 2015 to 2019; manager, technical services, North American Paper & Pulp from 2013 to 2015; and mill manager of the Franklin Mill from 2011 to 2013. Ms. Magness joined International Paper in 1999.

Timothy S. Nicholls, 61, senior vice president & chief financial officer since June 2018. Mr. Nicholls previously served as senior vice president - industrial packaging the Americas from January 2017 through June 2018, senior vice president - industrial packaging from November 2014 through December 2016, senior vice president - printing and communications papers of the Americas from November 2011 through October 2014, senior vice president and chief financial officer from 2007 until 2011, vice president and executive project leader of IP Europe during 2007, and vice president and chief financial officer - IP Europe from 2005 until 2007. Mr. Nicholls joined International Paper in 1999.

Thomas J. Plath, 59, senior vice president - human resources and corporate affairs since January 2023. Prior to that he served as senior vice president - human resources and global citizenship from March 1, 2017 to December 2022. Mr. Plath previously served as vice president - human resources, global businesses from November 2014 through February 2017, and vice president - HR manufacturing, technology, EH&S and global supply chain from April 2013 to November 2014. Mr. Plath joined International Paper in 1991.

James P. Royalty, Jr., 53, senior vice president - containerboard and recycling since January 2023. Prior to that he served as senior vice president and president, Europe, the Middle East, Africa and Russia

from December 2019 to December 2022. Most recently, Mr. Royalty served as vice president, corporate development and disruptive technologies from September 2018 until December 2019, vice president, strategic projects from 2017 until 2018, vice president, investor relations from 2013 until 2017, vice president and general manager, container the Americas in 2008 to 2013. Mr. Royalty joined International Paper in 1991.

Joseph Saab, 54, senior vice president, general counsel & corporate secretary since July 2022. Mr. Saab previously served as vice president, deputy general counsel & assistant corporate secretary from 2019 until July 2022 and associate general counsel - Industrial Packaging North America, Europe, Middle East and Africa from 2014 until 2019.

Gregory T. Wanta, 57, senior vice president as of January 2023. Prior to that Mr. Wanta served as senior vice president - North American container from December 2016 to December 2022. Mr. Wanta has served in a variety of roles of increasing responsibility in manufacturing and commercial leadership roles in specialty papers, coated paperboard, printing papers, foodservice and industrial packaging, including vice president, central region, Container the Americas, from January 2012 through October 2016. Mr. Wanta joined International Paper in 1991.

FORWARD-LOOKING STATEMENTS

Certain statements in this Annual Report on Form 10-K that are not historical in nature may be considered "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Words such as "expects," "anticipates," "believes," "estimates" and similar expressions identify forward-looking statements. These statements are not guarantees of future performance and reflect management's current views and are subject to risks and uncertainties that could cause actual results to differ materially from those expressed or implied in these statements. Factors which could cause actual results to differ include but are not limited to: (i) risks with respect to climate change and global, regional, and local weather conditions, as well as risks related to our ability to meet targets and goals with respect to climate change and the emission of GHGs and other environmental, social and governance matters; (ii) the impact of the conflict involving Russia and Ukraine, including in connection with related escalated sanctions imposed by the United States, the European Union, G7 and other countries and possible actions by the Russian government, and the impact of such developments on domestic and global economic and geopolitical conditions in general and on us and

our Ilim joint venture, which could be materially and adversely affected by such developments, and our inability to predict the full impact of the Russian invasion of Ukraine, current or future sanctions, current or future actions by the Russian government, geopolitical instability and the possibility of broadened military conflict on our Ilim joint venture, on our receipt of dividends from our Ilim joint venture and on our ability to complete the sale of our interest in the Ilim joint venture under the terms of the agreement with our joint venture partners or the sale of our interest in Ilim Group (and, if we are unable to complete such sales, on the value of and our ability to sell such interests to another purchaser); (iii) the level of our indebtedness and changes in interest rates (including the impact of current elevated interest rate levels); (iv) the impact of global and domestic economic conditions and industry conditions, including with respect to current negative macroeconomic conditions, inflationary pressures and changes in the cost or availability of raw materials, energy sources and transportation sources, supply chain shortages and disruptions, competition we face, cyclical and changes in consumer preferences, demand and pricing for our products, and conditions impacting the credit, capital and financial markets; (v) domestic and global geopolitical conditions, changes in currency exchange rates, trade protectionist policies, downgrades in our credit ratings, and/or the credit ratings of banks issuing certain letters of credit, issued by recognized credit rating organizations; (vi) the amount of our future pension funding obligations, and pension and healthcare costs; (vii) unanticipated expenditures or other adverse developments related to compliance with existing and new environmental, tax, labor and employment, privacy, anti-bribery and anti-corruption, and other U.S. and non-U.S. governmental laws and regulations; (viii) any material disruption at any of our manufacturing facilities or other adverse impact on our operations due to severe weather, natural disasters, climate change or other causes; (ix) risks inherent in conducting business through joint ventures; (x) our ability to achieve the benefits expected from, and other risks associated with, acquisitions, joint ventures, divestitures, spinoffs and other corporate transactions, (xi) cybersecurity and information technology risks; (xii) loss contingencies and pending, threatened or future litigation, including with respect to environmental related matters; (xiii) our exposure to claims under our agreements with Sylvamo Corporation; (xiv) our failure to realize the anticipated benefits of the spin-off of Sylvamo Corporation and the qualification of such spin-off as a tax-free transaction for U.S. federal income tax purposes; and (xv) our ability to attract and retain qualified personnel, particularly in light of current labor market conditions. These and other factors that could cause or contribute to actual results differing materially from such forward-looking

statements can be found in our press releases and SEC filings. In addition, other risks and uncertainties not presently known to the Company or that we currently believe to be immaterial could affect the accuracy of any forward-looking statements. The Company undertakes no obligation to publicly update any forward-looking statements, whether as a result of new information, future events or otherwise.

ITEM 1A. RISK FACTORS

The Company faces risks in the normal course of business and through global, regional, and local events that could have an adverse impact on its reputation, operations, and financial performance. The Board of Directors exercises oversight of the Company's enterprise risk management program, which includes strategic, operational and financial matters, as well as compliance and legal risks. The Audit and Finance Committee coordinates the risk oversight role exercised by the Board's standing committees and management, and it receives updates on the risk management processes twice per year.

In addition to the risks and uncertainties discussed elsewhere in this Annual Report on Form 10-K (particularly in [Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations](#)), or in the Company's other filings with the Securities and Exchange Commission, the following are some important factors that could cause the Company's actual results to differ materially from those projected in any forward-looking statement. If any of the events or circumstances described in any of the following risk factors occurs, our business, results of operations and/or financial condition could be materially and adversely affected, and our actual results may differ materially from those contemplated in any forward-looking statements we make in any public disclosures.

RISKS RELATING TO MARKET AND ECONOMIC FACTORS

ADVERSE DEVELOPMENTS IN GENERAL BUSINESS AND ECONOMIC CONDITIONS COULD HAVE AN ADVERSE EFFECT ON THE DEMAND FOR OUR PRODUCTS AND OUR FINANCIAL CONDITION AND RESULTS OF OPERATIONS. General economic conditions may adversely affect industrial non-durable goods production, consumer spending, commercial printing and advertising activity, white-collar employment levels and consumer confidence, all of which impact demand for our products, or otherwise adversely affect our business. We may also be adversely affected by catastrophic or other unforeseen events, including future health epidemics or pandemics, natural disasters,

geopolitical events, terrorism, political, financial or social instability, or civil or social unrest. Moreover, negative economic conditions or other adverse developments with respect to our business have resulted in, and may in the future result in impairment charges which could be material. Volatility or uncertainty in the financial, capital and credit markets, which impacts interest rates, currency exchange rates and the availability of credit, could also have a material adverse effect on our business, financial condition and our results of operations.

Macroeconomic conditions in the U.S. and globally continue to be challenging in various respects, including as the result of slow or negative GDP growth in recent quarters, significant inflationary pressures, elevated interest rates, challenging labor market conditions, and disruptions to supply networks. Our operations have been adversely affected by, and are expected to continue to be adversely affected by, these negative macroeconomic conditions, including as the result of higher raw material and labor costs, supply chain constraints and disruptions, and a constrained transportation environment. Moreover, any significant deterioration in current negative macroeconomic conditions, or any recovery therefrom that is significantly slower than anticipated, could have a material adverse effect on our business, results of operations or financial condition. Further if current negative macroeconomic conditions result in significant disruptions to capital and financial markets, our cost of borrowing, our ability to access capital on favorable terms, and our overall liquidity could be adversely affected.

CHANGES IN INTERNATIONAL CONDITIONS OR OTHER RISKS ARISING FROM CONDUCTING BUSINESS INTERNATIONALLY COULD ADVERSELY AFFECT OUR BUSINESS AND RESULTS OF OPERATIONS. Our operating results and business prospects could be substantially affected by risks related to the countries outside the U.S. in which we have manufacturing facilities or sell our products. These risks, which can vary substantially by country, may include economic or political instability, geopolitical events (such as between Ukraine and Russia and/or increasing tensions between China and Taiwan), corruption, anti-American sentiment, social and ethnic unrest, the regulatory environment (including the risks of operating in developing or emerging markets in which there are significant uncertainties regarding the interpretation and enforceability of legal requirements), fluctuations in the value of local currency versus the U.S. dollar, repatriating cash from foreign countries to the U.S., downturns or changes in economic conditions (including in relation to commodity inflation), adverse tax consequences or rulings, nationalization or any change in social, political or labor conditions in any of these countries

or regions impacting matters such as sustainability, environmental regulations and trade policies and agreements, could negatively affect our financial results. Trade protection measures in favor of local producers of competing products, including governmental subsidies, tax benefits and other measures giving local producers a competitive advantage over us, may also adversely impact our operating results and business prospects in these countries. Likewise, disruption in existing trade agreements or increased trade friction between countries (such as in relation to the trade tensions between the U.S. and China), which can result in tariffs, could have a negative effect on our business and results of operations by restricting the free flow of goods and services across borders.

In addition, our international operations are subject to regulation under U.S. law and other laws related to operations in foreign jurisdictions. For example, the Foreign Corrupt Practices Act prohibits U.S. companies and their representatives from offering, promising, authorizing or making payments to foreign officials for the purpose of obtaining or retaining business abroad, and the U.S. Department of Treasury's Office of Foreign Asset Control and other non-U.S. government entities maintain economic sanctions targeting various countries, persons and entities. Failure to comply with domestic or foreign laws could result in various adverse consequences, including the imposition of civil or criminal sanctions and the prosecution of executives overseeing our international operations.

RISKS RELATED TO CLIMATE AND WEATHER

WE ARE SUBJECT TO PHYSICAL, OPERATIONAL, TRANSITIONAL AND FINANCIAL RISKS ASSOCIATED WITH CLIMATE CHANGE AND GLOBAL, REGIONAL AND LOCAL WEATHER CONDITIONS AS WELL AS BY LEGAL, REGULATORY, AND MARKET RESPONSES TO CLIMATE CHANGE. Climate change impacts, including rising temperatures and the increasing severity and/or frequency of adverse weather conditions, may result in operational impacts on our facilities, supply chain disruptions and increased raw material and other costs. These adverse weather conditions and other physical impacts which may be exacerbated as the result of climate change include floods, hurricanes, tornadoes, earthquakes, hailstorms, wildfires, snow, ice storms and drought. Climate change may also contribute to the decreased productivity of forests and adverse impacts on the distribution and abundance of species, the spread of disease and insect epidemics, any of which developments could adversely affect timber harvesting. The effects of climate change and global, regional and local weather conditions, including the

resulting financial costs of compliance with legal or regulatory initiatives, could have a material adverse effect on our results of operations and business.

There has been an increased focus, including from investors, the general public and U.S. and foreign governmental and nongovernmental authorities, regarding environmental, social and governance (ESG) matters, including with respect to climate change, GHG emissions, packaging and waste, sustainable supply chain practices, deforestation, and land, energy and water use. This increased awareness with respect to ESG matters, including climate change, may result in more prescriptive reporting requirements with respect to ESG metrics, an increased expectation that such metrics will be voluntarily disclosed by companies such as ours, and increased pressure to make commitments, set targets, or establish goals, and take action to meet them. As the result of this increased focus and our commitment to ESG matters, we have voluntarily provided disclosure and established targets and goals with respect to various ESG matters, including climate change. For example, we have made public commitments regarding our intended reduction of carbon emissions, including our Vision 2030 Goal of reducing Scope 1, 2 and 3 GHG emissions by 35% and have received approval by SBTi of these targets as consistent with levels required to meet the goals of the Paris Agreement. Meeting these and other ESG targets and goals have increased, and may continue to increase, our capital and operational costs. There also continues to be a lack of consistency in legal and regulatory initiatives regarding climate change across jurisdictions and various governmental entities. Additionally, we may also incur additional expenses as a result of U.S. and international regulators requiring additional disclosures regarding GHG emissions. Further, there can be no assurance regarding the extent to which our climate and other ESG targets will be achieved, and the achievement of these targets is subject to various risks and uncertainties, some of which are outside our control. For example, there has been limited net change in our combined Scope 1 and Scope 2 emissions from 2019 to 2021, which we believe was largely due to increased mill production over this period, along with other factors driven by COVID-19 disruption, mill operations, weather events and energy supplies. Moreover, there is no assurance that investments made in furtherance of achieving such targets and goals will meet investor expectations or any binding or non-binding legal standards regarding sustainability performance. If we are unable to meet these climate and other ESG targets and goals, this failure could adversely impact our reputation as well as investor, customer and other stakeholder relationships, which could adversely impact our

business and results of operations. Moreover, not all of our competitors may seek to establish climate or other ESG targets and goals at a comparable level to ours, which could result in lower supply chain or operating costs for competitors.

Other climate-related business risks that we face include risks related to the transition to a lower-carbon economy, such as increased prices for fuels; the introduction of a carbon tax; increased regulations; and more stringent and/or complex environmental and other permitting requirements. To the extent that climate-related business risks materialize, particularly if we are unprepared for them, we may incur unexpected costs, and our business may be materially and adversely affected.

RISKS RELATED TO OUR INDEBTEDNESS

THE LEVEL OF OUR INDEBTEDNESS COULD ADVERSELY AFFECT OUR FINANCIAL CONDITION AND IMPAIR OUR ABILITY TO OPERATE OUR BUSINESS. As of December 31, 2022, we had approximately \$5.6 billion of outstanding indebtedness. The level of our indebtedness could have important consequences to our financial condition, operating results and business, including the following:

- it may limit our ability to obtain additional debt or equity financing for working capital, capital expenditures, product development, dividends, share repurchases, debt service requirements, acquisitions and general corporate or other purposes;
- a portion of our cash flows from operations will be dedicated to payments on indebtedness and will not be available for other purposes, including operations, capital expenditures and future business opportunities;
- the debt service requirements of our indebtedness could make it more difficult for us to satisfy other obligations;
- it may limit our ability to adjust to changing market conditions, including to take actions in connection with rising interest rates (such as in the current rising interest rate environment), and place us at a competitive disadvantage compared to our competitors that have less debt;
- it may increase our exposure to risks related to fluctuations in foreign currency as we earn profits in a variety of currencies around the

world and our debt is denominated in U.S. dollars;

- it may increase our exposure to the risk of increased interest rates insofar as we are compelled to refinance indebtedness at higher interest rates, which risk is heightened by the current high interest rate environment; and
- it may increase our vulnerability to a downturn in general economic conditions or in our business, and may make us unable to carry out capital spending that is important to our growth.

In addition, we are subject to agreements governing our indebtedness that require us to meet and maintain certain financial ratios and covenants. A significant or prolonged downturn in general business and economic conditions, or other significant adverse developments with respect to our results of operations or financial condition, may affect our ability to comply with these covenants or meet those financial ratios and tests and could require us to take action to reduce our debt or to act in a manner contrary to our current business objectives. Moreover, the restrictions associated with these financial ratios and covenants may prevent us from taking actions that we believe would be in the best interest of our business and may make it difficult for us to execute our business strategy successfully or effectively compete with companies that are not similarly restricted. Additionally, despite these restrictions, we may be able to incur substantial additional indebtedness in the future, which might subject us to additional restrictive covenants that could affect our financial and operational flexibility and otherwise increase the risks associated with our indebtedness as noted above.

WE ARE SUBJECT TO RISKS ASSOCIATED WITH OUR VARIABLE RATE DEBT AND THE UPCOMING TRANSITION FROM LIBOR TO SOFR.

We have interest rate risk, primarily related to our short-term cash investments, variable rate debts, supply chain financing, short-term debt and the installment notes and loans in the Temple Inland timber monetization special purpose entities. Interest rates rose significantly during 2022 and could remain high and volatile in 2023 and beyond. Changes in interest rates impact how much we earn on our short term cash investments, the interest rate we pay on our variable rate debt and credit agreements, the cost of supply chain financing and the refinance rate of our short term debt.

In addition, as of December 31, 2022, \$127 million of our variable rate debt continued to be priced based on the London Interbank Offered Rate ("LIBOR") with the remaining \$195 million of our variable rate debt priced based on the Secured Overnight Financing Rate ("SOFR"). The ICE Benchmark Administration announced that it will cease calculating and publishing all USD LIBOR tenors on June 30, 2023. All of our variable rate debt that continues to be priced based upon LIBOR will need to either be amended, refinanced or paid off prior to the June 30, 2023 deadline, with any new variable rate debt needing to be based upon SOFR. In addition, the installment notes and some of the loans in the Temple Inland timber monetization special purpose entities are also priced based on LIBOR, and we are working to change the pricing index with respect to such notes and loan to SOFR before the June 30, 2023 deadline. SOFR is calculated differently from LIBOR and has inherent differences from LIBOR, which could give rise to risks and uncertainties, including the limited historical data and volatility in the benchmark rates. The full effects to us of the transition to SOFR remain uncertain.

CHANGES IN CREDIT RATINGS ISSUED BY NATIONALLY RECOGNIZED STATISTICAL RATING ORGANIZATIONS COULD ADVERSELY AFFECT OUR COST OF FINANCING AND HAVE AN ADVERSE EFFECT ON THE MARKET PRICE OF OUR SECURITIES. Maintaining an investment-grade credit rating is an important element of our financial strategy, and a downgrade of the Company's ratings below investment grade will likely eliminate our ability to access the commercial paper market, may limit our access to the capital markets, have an adverse effect on the market price of our securities, increase our cost of borrowing and require us to post collateral for derivatives in a net liability position. Our desire to maintain the Company's investment grade rating may cause us to take certain actions designed to improve our cash flow, including sale of assets, suspension or reduction of our dividend and reductions in capital expenditures and working capital.

Under the terms of the agreements governing approximately \$539 million of our debt as of December 31, 2022, the applicable interest rate on such debt may increase upon each downgrade in our credit rating below investment grade. As a result, a downgrade in our credit rating below investment grade may lead to an increase in our interest expense. There can be no assurance that such credit ratings will remain in effect for any given period of time or that such ratings will not be lowered, suspended or withdrawn entirely by the rating agencies, if, in each rating agency's judgment,

circumstances so warrant. Any such downgrade, suspension or withdrawal of our credit ratings could adversely affect our cost of borrowing, limit our access to the capital markets or result in more restrictive covenants in agreements governing the terms of any future indebtedness that we may incur.

DOWNGRADES IN THE CREDIT RATINGS OF BANKS ISSUING CERTAIN LETTERS OF CREDIT WILL INCREASE OUR COST OF MAINTAINING CERTAIN INDEBTEDNESS AND MAY RESULT IN THE ACCELERATION OF DEFERRED TAXES. We are subject to the risk that a bank with currently issued irrevocable letters of credit supporting installment notes in connection with Temple-Inland's 2007 sales of forestlands, may be downgraded below a required rating. Prior to 2013, certain banks had fallen below the required ratings threshold and were successfully replaced, or waivers were obtained regarding their replacement. As a result of continuing uncertainty in the banking environment, some of the letter-of-credit banks currently in place remain subject to risk of downgrade and the number of qualified replacement banks remains limited. The downgrade of one or more of these banks may subject us to additional costs of securing a replacement letter-of-credit bank or could result in an acceleration of payments of up to \$485 million in deferred income taxes if replacement banks cannot be obtained. The deferred taxes are currently recorded in our consolidated financial statements. See [Note 15, Variable Interest Entities](#), on pages 69 through 71, in [Item 8, Financial Statements and Supplementary Data](#) for further information.

RISKS RELATING TO OUR PENSION AND HEALTHCARE COSTS

OUR PENSION AND HEALTH CARE COSTS ARE SUBJECT TO NUMEROUS FACTORS WHICH COULD CAUSE THESE COSTS TO CHANGE. We have defined benefit pension plans covering substantially all U.S. salaried employees hired prior to July 1, 2004 (or later for certain acquired populations, as described in [Note 19, Retirement Plans](#), on pages 81 through 87, in [Item 8, Financial Statements and Supplementary Data](#)) and substantially all hourly union and non-union employees regardless of hire date. We froze participation under these plans for U.S. salaried employees, including credited service and compensation on or after January 1, 2019; however, the pension freeze does not affect benefits accrued through December 31, 2018. We provide retiree health care benefits to certain former U.S. employees, as well as financial assistance towards the cost of individual retiree medical coverage for certain former U.S. salaried employees. Our pension costs are dependent upon numerous factors resulting

from actual plan experience and assumptions of future experience. Pension plan assets are primarily made up of equity and fixed income investments. Fluctuations in actual market returns on plan assets, changes in general interest rates and changes in the number of retirees may impact pension costs in future periods. Likewise, changes in assumptions regarding current discount rates and expected rates of return on plan assets could increase pension costs. However, the impact of market fluctuations has been reduced as a result of investments in our pension plan asset portfolio which hedge the impact of changes in interest rates on the plan's funded status. Drivers for fluctuating health costs include unit cost changes, health care utilization by participants, and potential changes in legal requirements and government oversight.

OUR U.S. FUNDED PENSION PLANS ARE CURRENTLY FULLY FUNDED ON A PROJECTED BENEFIT OBLIGATION BASIS; HOWEVER, THE POSSIBILITY EXISTS THAT OVER TIME WE MAY BE REQUIRED TO MAKE CASH PAYMENTS TO THE PLANS, REDUCING THE CASH AVAILABLE FOR OUR BUSINESS. We record an asset or a liability associated with our pension plans equal to the surplus of the fair value of plan assets above the benefit obligation or the excess of the benefit obligation over the fair value of plan assets. At December 31, 2022, we had an overfunded pension asset balance. The benefit surplus recorded under the provisions of Accounting Standards Codification ("ASC") 715, "Compensation – Retirement Benefits," at December 31, 2022 was \$29 million. The amount and timing of future contributions, which could be material, will depend upon a number of factors, including the actual earnings and changes in values of plan assets and changes in interest rates.

RISKS RELATED TO THE COVID-19 PANDEMIC

THE COVID-19 PANDEMIC HAS HAD AN ADVERSE EFFECT ON PORTIONS OF OUR BUSINESS, AND COULD HAVE MATERIAL ADVERSE EFFECTS ON OUR BUSINESS, FINANCIAL CONDITION, RESULTS OF OPERATIONS AND CASH FLOWS IF PUBLIC HEALTH CONDITIONS ASSOCIATED WITH COVID-19 SIGNIFICANTLY DETERIORATE. COVID-19 has continued to result in a large number of hospitalizations and deaths in the U.S. and throughout the world, although the macroeconomic impact of the pandemic has decreased in comparison to the impact experienced earlier in the pandemic. The pandemic has had an adverse effect on portions of our business to varying degrees, including as the result of lower demand for certain of our products, supply chain and labor disruptions, and higher costs,

and could continue to have adverse effects on our business depending on the future course of the pandemic. Moreover, the pandemic could have a material adverse effect on our business, results of operations, cash flow, liquidity, or financial condition if public health conditions significantly deteriorate. The ongoing impact of the pandemic on us will depend on numerous evolving factors and future developments, which are highly uncertain, including (a) the duration, severity and scope of the pandemic, including the potential spread of more contagious and/or virulent forms of the virus; (b) governmental and public health directives and/or actions taken by our customers, vendors and other private businesses in connection with the pandemic; (c) the availability, acceptance, effectiveness and administration of medical treatments, vaccines and booster shots for COVID-19; and (d) the extent and duration of the pandemic's impact on economic conditions and social activity.

RISKS RELATING TO INDUSTRY CONDITIONS

CHANGES IN THE COST OR AVAILABILITY OF RAW MATERIALS, ENERGY AND TRANSPORTATION HAVE RECENTLY AFFECTED, AND COULD CONTINUE TO AFFECT OUR PROFITABILITY. We rely heavily on the use of certain raw materials (principally virgin wood fiber, recycled fiber, caustic soda, starch and adhesives), energy sources (principally biomass, natural gas, electricity and fuel oil) and third-party companies that transport our goods. The market price of virgin wood fiber varies based upon availability and source. The global supply and demand for recycled fiber may be affected by factors such as trade policies between countries, individual governments' legislation and regulations, and general macroeconomic conditions. In addition, the increase in demand of products manufactured, in whole or in part, from recycled fiber, on a global basis, may cause significant fluctuations in recycled fiber prices. Taking into account ongoing inflationary conditions in the U.S. and globally, we have recently experienced, and expect to continue to experience, a significant increase in various costs, including recycled fiber, energy, freight, chemical, and other supply chain costs, which has adversely affected and is expected to continue to adversely affect our results of operations. Energy prices, in particular prices for oil and natural gas, have fluctuated dramatically in the past and have recently increased (including as the result of the current energy crisis in Europe associated with the Russia-Ukraine conflict), and may continue to increase and/or fluctuate in the future. Moreover, the availability of labor and the market price for fuel may affect our costs for third-party transportation. In addition, because our businesses operate in highly competitive

industry segments, we may not be able to recoup past or future increases in the costs of any raw materials, energy sources or transportation sources through price increases to our customers. Our profitability has been, and will continue to be, affected by changes in the costs and availability of such raw materials, energy sources and transportation sources.

FLUCTUATIONS IN THE PRICES OF AND THE DEMAND FOR OUR PRODUCTS DUE TO FACTORS SUCH AS ECONOMIC CYCICALITY AND CHANGES IN CONSUMER PREFERENCES COULD MATERIALLY AFFECT OUR FINANCIAL CONDITION, RESULTS OF OPERATIONS AND CASH FLOWS. Substantially all of our businesses have experienced, and are likely to continue to experience, cycles relating to industry capacity and general economic conditions. The length and magnitude of these cycles have varied over time and by product. In addition, changes in consumer preferences may increase or decrease the demand for our fiber-based products and non-fiber substitutes. Moreover, consumer preferences are constantly changing based on, among other factors, cost, convenience and health concerns and perceptions and an increased awareness of ESG considerations. These consumer preferences may affect the prices of our products. Consequently, our financial results are sensitive to changes in the pricing and demand for our products. In addition, our results may be adversely affected if we fail to anticipate trends that would enable us to offer products that respond to changing customer preferences and technological and regulatory developments.

COMPETITION IN THE U.S. AND INTERNATIONALLY COULD NEGATIVELY IMPACT OUR FINANCIAL RESULTS. We operate in a competitive environment, both in the U.S. and internationally, in all of our operating segments. Our products compete with similar products produced by other forest products companies. Product innovations, manufacturing and operating efficiencies, additional manufacturing capacity, marketing, distribution and pricing strategies pursued or achieved by competitors, and the entry of new competitors in to the markets we serve could negatively impact our financial results. In addition, our products also compete, in some instances, with companies in other industries that produce substitutes for wood-fiber products, such as plastics and various types of metal, and customer shifts away from wood-fiber products toward such substitute products may adversely affect our business.

RISKS RELATING TO OUR OPERATIONS

MATERIAL DISRUPTIONS AT ONE OF OUR MANUFACTURING FACILITIES COULD NEGATIVELY IMPACT OUR FINANCIAL RESULTS. We operate our facilities in compliance with applicable rules and regulations and take measures to minimize the risks of disruption at our facilities. A material disruption at our corporate headquarters or one of our manufacturing facilities could prevent us from meeting customer demand, reduce our sales and/or negatively impact our financial condition. Any of our manufacturing facilities, or any of our machines within an otherwise operational facility, could cease operations unexpectedly due to a number of events, including:

- adverse weather events like fires, floods, earthquakes, hurricanes, winter storms and extreme cold, or other catastrophes (including adverse weather conditions that may be intensified by climate change);
- the effect of a drought or reduced rainfall on its water supply;
- disruption in the supply of raw materials or other manufacturing inputs;
- terrorism or threats of terrorism;
- information system disruptions or failures due to any number of causes, including cyber-attacks;
- domestic and international laws and regulations applicable to us and our business partners, including joint venture partners, around the world;
- unscheduled maintenance outages;
- prolonged power failures;
- an equipment failure;
- a chemical spill or release;
- explosion of a boiler or other equipment;
- damage or disruptions caused by third parties operating on or adjacent to one of our manufacturing facilities;
- disruptions in the transportation infrastructure, including roads, bridges, railroad tracks and tunnels;

- a widespread outbreak of an illness or any other communicable disease, such as the outbreak of the COVID-19 virus, or any other public health crisis;
- failure of our third-party service providers and business partners to satisfactorily fulfill their commitments and responsibilities in a timely manner and in accordance with agreed upon terms;
- labor difficulties; and
- other operational problems.

Any such downtime or facility damage could prevent us from meeting customer demand for our products and/or require us to make unplanned expenditures. If one of our machines or facilities were to incur significant downtime, our ability to meet our production targets and satisfy customer requirements could be impaired, resulting in lower sales and having a negative effect on our business and financial results.

CERTAIN OPERATIONS ARE CONDUCTED BY JOINT VENTURES THAT WE CANNOT OPERATE SOLELY FOR OUR BENEFIT. We have a 50% equity interest in Ilim S.A., whose primary operations are in Russia. We recently announced our entry into an agreement to sell this equity interest. In joint ventures, such as the Ilim joint venture, we share ownership and management of a company with one or more parties who may or may not have the same goals, strategies, priorities or resources as we do. In general, joint ventures are intended to be operated for the benefit of all co-owners, rather than for our exclusive benefit. Operating a business as a joint venture often requires additional organizational formalities as well as time-consuming procedures for sharing information and making decisions. In joint ventures, we are required to pay more attention to our relationship with our co-owners as well as with the joint venture, and if a co-owner changes, our relationship may be adversely affected. In addition, the benefits from a successful joint venture are shared among the co-owners, so we receive only our portion of those benefits.

OUR FINANCIAL RESULTS AND BUSINESSES, INCLUDING OUR ILIM JOINT VENTURE, HAVE BEEN, AND MAY CONTINUE TO BE, ADVERSELY AFFECTED BY THE CURRENT MILITARY CONFLICT BETWEEN RUSSIA AND UKRAINE, INCLUDING ONGOING OR FUTURE SANCTIONS AND EXPORT CONTROLS TARGETING RUSSIA AND OTHER RESPONSES TO RUSSIA'S INVASION OF UKRAINE. The global economy has been, and may continue to be, negatively impacted

by Russia's invasion of Ukraine. As a result of Russia's invasion of Ukraine, the U.S., the United Kingdom, the European Union and other G7 countries, among other countries, have imposed coordinated financial and economic sanctions and export control measures on many industry sectors and parties in Russia. The negative impacts arising from the conflict and these sanctions and export control measures as well as sanctions and other actions taken by Russia have included and may continue to include reduced consumer demand, supply chain disruptions and increased costs for transportation, raw materials and energy, including recent energy increases which have been particularly acute in Europe. We continue to carefully monitor the conflict and the potential impact of financial and economic sanctions and export control measures on the regional and global economy.

We have a 50% equity interest in Ilim, the parent company of Ilim Group, whose primary operations are in Russia. Specifically, Ilim Group's facilities include three paper mills located in Bratsk, Ust-Ilimsk, and Koryazhma, Russia, with combined total pulp and paper capacity of over 3.6 million metric tons. In joint ventures, such as the Ilim joint venture, we share ownership and management of a company with one or more parties who may or may not have the same goals, strategies, priorities or resources as we do. Ilim, and its directors and employees are not specially designated nationals or blocked persons or otherwise specifically identified in sanctions or export control measures issued by the U.S. or other countries.

The military conflict between Russia and Ukraine, including ongoing sanctions, actions by the Russian government, and associated domestic and global economic and geopolitical conditions, has adversely affected and may continue to adversely affect our Ilim joint venture and our businesses, financial condition, results of operations and cash flows. In January 2023, we announced our entry into a definitive agreement to sell our equity interest in Ilim; however, we cannot be certain if or when the completion of this sale may occur. Our ability to complete this sale is subject to various risks, including (i) purchasers' inability to obtain necessary regulatory approvals or to finance the purchase pursuant to the terms of the agreement, (ii) adverse actions by the Russian government, and (iii) new or expanded sanctions imposed by the U.S., the United Kingdom, or the European Union or its member countries. We are unable to predict the full impact that Russia's ongoing invasion of Ukraine, current or potential future sanctions or export control measures, ongoing or potential disruptions resulting from the conflict, the changing regulatory environment in Russia, negative macroeconomic conditions arising from such conflict, supply chain disruptions, and/or geopolitical instability

and shifts, may have on us or our ability to complete the sale of our interest in the Ilim joint venture. In addition, any escalation of the current conflict, including as a result of the use of tactical nuclear weapons by Russia or the expansion of the conflict to neighboring countries, could result in additional economic disruptions, capital market volatility, and significant geopolitical instability. In addition, developments with respect to the Russia-Ukraine conflict could heighten many of our known risks described elsewhere in this Part I, Item 1A "Risk Factors" in our Annual Report. Such risks include, but are not limited to, adverse effects on global business and economic conditions, including volatility and increases in the price and demand of oil, natural gas and other energy products and inflation, demand for our products, increased cybersecurity risks, adverse changes in trade policies, taxes, government regulations, or our ability to implement and execute our business strategy including with respect to joint ventures, divestitures, spin-offs, capital investments and other corporate transactions that we have pursued or may pursue, disruptions in global supply chains, risks related to employees and contracts in the affected regions, our exposure to foreign currency fluctuations and potential nationalizations and asset seizures in Russia, constraints, volatility, or disruption in the capital markets and our sources of liquidity, and our potential inability to service our remaining performance obligations and potential contractual breaches and litigations. Additionally, fluctuations in the value of the Russian ruble versus the U.S. dollar impacts our investment carrying value as well as financial results based on translation of ruble-denominated results into U.S. dollars and the re-measurement impact associated with non-functional currency financial assets and liabilities.

In particular, our investments in Ilim involve certain legal, geopolitical, investment, repatriation, and transparency risks as a result of the conflict between Russia and Ukraine including: (i) the legal framework of Russia continues to evolve and it is not possible to accurately predict the content or implications of changes in their statutes or regulations; and there has been a number of legislative proposals that, if adopted, could result in nationalization, expropriation, onerous or disadvantageous exit terms or other unfavorable regulations and could be introduced or enacted at any time without prior warning or consultation; (ii) current and future statutes and regulations may be unfairly or unevenly enforced, the courts may decline to enforce legal protections covering our investments altogether and/or the cost and difficulties of litigation in Russia may make enforcement of our rights impractical or impossible; (iii) the risk we may inadvertently violate sanctions or export control measures that may be imposed by the U.S. or foreign governments, including Russia, given

the complexity and fluidity of the situation; (iv) financial and economic sanctions and export control measures imposed on certain industry sectors and parties in Russia as well as counter-sanctions measures implemented by Russia could lead to further disruptions in supply chains and adversely affect operations in Russia; (v) increased risks of economic, political, or social instability, escalating military conflicts with Ukraine or new conflicts with any other countries, war, or terrorism, which could adversely affect the economy of Russia or lead to a material adverse change in the value of our investments in Russia; and (vi) disclosure, accounting, and financial standards and requirements in Russia may evolve and it is not possible to accurately predict the content or implications of changes in their disclosure requirements.

WE MAY NOT ACHIEVE THE EXPECTED BENEFITS FROM STRATEGIC ACQUISITIONS, JOINT VENTURES, DIVESTITURES, SPIN-OFFS, CAPITAL INVESTMENTS AND OTHER CORPORATE TRANSACTIONS THAT WE HAVE PURSUED OR MAY PURSUE. Our strategy for long-term growth, productivity and profitability depends, in part, on our ability to accomplish prudent acquisitions, joint ventures, divestitures, spin-offs, capital investments and other corporate transactions that we may pursue and to realize the benefits we expect from such transactions. We are subject to the risk that we may not achieve the expected benefits from such transactions. This failure could require us to record an impairment charge for goodwill or other intangible assets, which could lead to decreased assets and reduced net earnings. Among the benefits we expect from potential as well as completed acquisitions and joint ventures are synergies, cost savings, growth opportunities and access to new markets (or a combination thereof), and in the case of divestitures, the realization of proceeds from the sale of businesses and assets to purchasers who place higher strategic value on such businesses and assets than we do.

Corporate transactions of this nature that we may pursue involve a number of special risks, including with respect to our inability to realize our business goals with to such transactions as noted above, the focus of our management's attention on these transactions and the assimilation of acquired businesses into our operations, the demands on our financial, operational and information technology systems resulting from acquired businesses, and the possibility that we may become responsible for substantial contingent or unanticipated legal liabilities as the result of acquisitions or other corporate transactions.

We believe that the spin-off of Sylvamo Corporation allows us and Sylvamo Corporation to pursue distinct strategies appropriate to our respective markets. However, there can be no assurance that we will realize any or all of the expected strategic, financial, operational or other benefits of the spin-off. A failure to realize expected benefits of the spin-off could result in a material adverse effect on our business, results of operations and financial condition.

We cannot guarantee that Sylvamo Corporation will be successful as a standalone entity. In the event that Sylvamo Corporation is not successful, it is possible that plaintiffs could assert a variety of claims against us. Depending on their nature and number, such claims could have a material adverse effect on our business, financial condition or results of operations.

WE COULD BE EXPOSED TO CLAIMS FROM SYLVAMO CORPORATION UNDER OUR AGREEMENTS WITH SYLVAMO CORPORATION OR OTHERWISE. We previously entered into agreements with Sylvamo Corporation and its subsidiaries, including among others a separation and distribution agreement, registration rights agreement, transition services agreement, tax matters agreement, supply and offtake agreements, intellectual property agreements and other commercial arrangements in connection with the spin-off. Our agreements with Sylvamo Corporation or its subsidiaries may not reflect terms that would have resulted from negotiations between unaffiliated parties and, in certain instances, may relate to the continuation of certain business arrangements among us and Sylvamo Corporation in existence prior to the spin-off. Such agreements include, among other things, the parties' respective indemnification rights and obligations with respect to certain losses relating to specified liabilities as well as certain losses relating to specified information included in certain securities filings, the allocations of assets and liabilities, payment obligations and other obligations between us and Sylvamo Corporation. There can be no assurance that any remedies available under these arrangements will be sufficient to compensate us in the event of a dispute or non-performance. In addition, there can be no assurance that the attention we must pay, and resources we must devote, to our obligations under one or more of these agreements, or the results of any failure to perform those obligations, or successful claim by Sylvamo Corporation that we have failed to perform those obligations or have an indemnification obligation under these agreements, will not have a material impact on our own business performance, results of operations or financial condition.

We will rely on Sylvamo Corporation to satisfy its performance and payment obligations under these agreements entered into in connection with the spin-off. If Sylvamo Corporation fails to satisfy such obligations, it could have a material adverse effect on our financial condition and results of operations.

In addition, under the tax matters agreement, we could have significant payment obligations in connection with certain Brazilian tax matters. Under this agreement, we have agreed to pay 60% of the first \$300 million of any liability resulting from the resolution of these Brazilian tax matters (with Sylvamo paying the remaining 40% of any such liability) and 100% of any liability resulting from the Brazilian tax matters over \$300 million. The assessments for the tax years 2007 - 2015 currently total approximately \$111 million in tax and \$361 million in interest, penalties and fees as of December 31, 2022 (adjusted for variation in currency exchange rates). See [Note 14 Commitments and Contingent Liabilities](#) on pages 71 through 75 of [Item 8. Financial Statements and Supplementary Data for further information](#).

WE OPERATE IN A CHALLENGING MARKET FOR TALENT AND MAY FAIL TO ATTRACT AND RETAIN QUALIFIED PERSONNEL, INCLUDING KEY MANAGEMENT PERSONNEL. Our ability to operate and grow our business depends on our ability to attract and retain employees with the skills necessary to operate and maintain our facilities, produce our products and serve our customers. The market for both hourly workers and salaried workers has been, and remains, very competitive, particularly for employees with specialized technical and trade experience. For example, due to labor market constraints, we have recently had to increase overtime while we try to hire additional regular employees. This, along with the current competitive labor market and ongoing inflationary conditions, has led to higher labor costs, particularly at our converting facilities. Moreover, despite our focused efforts to attract and retain employees, including by offering higher levels of compensation in certain instances, we experienced attrition rates within our workforce (particularly those early in their career) in the past two years that exceeded historical levels. In addition, we rely on key executive and management personnel to manage our business efficiently and effectively. The loss of key executive and management employees, particularly in a challenging market for attracting and retaining employees, could adversely affect our business.

Moreover, changing demographics and labor work force trends, including remote work and work-life balance expectations for many individuals arising

from the COVID-19 pandemic, may make it difficult for us to replace retiring or departing employees. If we fail to attract and retain qualified personnel, or if we continue to experience excessive turnover, we may continue to experience higher labor costs and labor shortages, and our business may be adversely impacted.

In addition, a significant number of our employees are represented by unions. We may not be able to successfully negotiate new union contracts once our current contracts with unions expire without work stoppages or labor difficulties, or we may be unable to renegotiate such contracts on favorable terms. Negotiations between the company and USW regarding the mill master collective bargaining agreement (which expires August 2023) and related mill joint pension counsel master agreement (which expires September 2023) are scheduled to begin on February 19, 2023. USW represents approximately 6,000 employees at the mills. We have also experienced work stoppages in the past and may experience them in the future. Moreover, labor organizations may attempt to organize groups of additional employees from time to time, and potential changes in labor laws could make it easier for them to do so. If we experience any extended interruption of operations at any of our facilities as a result of strikes or other work stoppages or if unions are able to organize additional groups of our employees, our operating costs increase and our operational flexibility could be reduced.

WE ARE SUBJECT TO CYBERSECURITY AND INFORMATION TECHNOLOGY RISKS RELATED TO BREACHES OF SECURITY PERTAINING TO SENSITIVE COMPANY, CUSTOMER, EMPLOYEE AND VENDOR INFORMATION AS WELL AS BREACHES IN THE TECHNOLOGY USED TO MANAGE OPERATIONS AND OTHER BUSINESS PROCESSES. Our business operations rely upon securely managed information technology systems, some of which are provided or managed by third parties, for data capture, processing, storage and reporting. We have invested in information technology security initiatives and information technology risk management, as well as incident response, business continuity and disaster recovery plans but we cannot eliminate all systematic risk. The development and maintenance of these measures is costly and requires ongoing monitoring, testing and updating as technologies and processes change, and efforts to overcome security measures become increasingly sophisticated. Additionally, the regulatory environment surrounding information security data privacy and data protection is becoming increasingly restrictive and is evolving frequently.

The current cyber threat environment presents increased risk for all companies, including those in our industry. Like other global companies, our systems are subject to recurring attempts by third parties to access information, manipulate data or disrupt our operations, and we have experienced cyber threats and incidents, although none have been material or had a material adverse effect on our business. Despite careful security and controls design, implementation, updating and independent third party verification, our information technology systems, and those of our third-party providers or joint venture partners, could become subject to employee error or malfeasance, cyber-attacks, such as ransomware and data theft, by common hackers, criminal groups or nation-state organizations or social activist ("hacktivist") organizations, geopolitical events, natural disasters, failures or impairments of telecommunications networks or other catastrophic events. Moreover, hardware, software or applications we use may have inherent vulnerabilities or defects of design, manufacture or operations or could be inadvertently or intentionally implemented or used in a manner that could compromise information security. In addition, the cybersecurity-related threats that we face may remain undetected for an extended period of time. Network, system, application and data breaches, and other cybersecurity incidents, could result in operational disruptions, data loss or manipulation, or information misappropriation including, but not limited to, interruption to systems availability, denial of access to and misuse of applications required by our customers to conduct business with us. Access to applications required to plan our operations, source materials, manufacture and ship finished goods and account for orders could be denied or misused. Theft of intellectual property or trade secrets, and loss or inappropriate disclosure of confidential company, employee, customer or vendor information, could stem from such incidents. While we have significant security processes and initiatives in place, we may be unable to detect or prevent a breach or disruption. Any significant cybersecurity incident or operational disruptions and/or misappropriation of information could result in lost sales, business delays, negative publicity, cause us to incur legal liability and increased costs to address such events and related security concerns which may include costs to recover data and institute additional controls to prevent future similar incidents and have a material effect on our business. Additionally, while we have insurance coverage designed to address certain aspects of cyber risks in place, such insurance coverage may be insufficient to cover all losses or all types of claims that may arise in connection with such incidents.

RISKS RELATING TO LEGAL PROCEEDINGS AND COMPLIANCE COSTS

WE ARE SUBJECT TO A WIDE VARIETY OF LAWS, REGULATIONS AND OTHER GOVERNMENT REQUIREMENTS THAT MAY CHANGE IN SIGNIFICANT WAYS, AND THE COST OF COMPLIANCE WITH SUCH REQUIREMENTS COULD IMPACT OUR BUSINESS AND RESULTS OF OPERATIONS. Our operations are subject to regulation under a wide variety of U.S. federal and state and non-U.S. laws, regulations and other government requirements -- including, among others, those relating to the environment, health and safety, labor and employment, data privacy, tax, trade and health care. There can be no assurance that laws, regulations and government requirements will not be changed, applied or interpreted in ways that will require us to modify our operations and objectives or affect our returns on investments by restricting existing activities and products, or subjecting us to increased costs.

For example, as part of our business, we are subject to increasingly stringent federal, state, local and international laws governing the protection of the environment. We have incurred significant capital, operating and other expenditures complying with applicable environmental laws and regulations. In addition, new environmental laws, regulations or other requirements, including with respect to GHG emissions or climate change, may cause us to incur increased and unexpected compliance costs. Moreover, there has historically been, and may continue to be, a lack of consistency between jurisdictions regarding legal requirements with respect to climate and GHG emission matters, which has created and may continue to create economic and regulatory uncertainty. Our environmental expenditures include, among other areas, those related to air and water quality, waste disposal and the cleanup of contaminated soil and groundwater, including situations where we have been identified as a potentially responsible party. Moreover, we may be directly impacted by, and are working to manage, the risks and costs to us, our customers and our vendors of the effects of climate change, GHGs, and the availability of energy and water resources. These risks include the potentially adverse impact on forestlands, which are a key resource in the production of our products, increased product costs and a change in the types of products that customers purchase. There can be no assurance that future remediation requirements and compliance with existing and new laws and requirements will not require significant expenditures, or that existing reserves for specific matters will be adequate to cover future costs. We could also incur substantial fines or sanctions, enforcement actions (including orders

limiting our operations or requiring corrective measures), natural resource damages claims, cleanup and closure costs, third-party claims for property damage and personal injury and reputational harm as a result of violations of, or liabilities under, environmental laws, regulations, codes and common law. The amount and timing of environmental expenditures is difficult to predict, and, in some cases, liability may be imposed without regard to contribution or to whether we knew of, or caused, the release of hazardous substances.

Our global operations subject us to complex and evolving U.S and international data privacy laws and regulations, such as European's Union General Data Protection Regulation ("GDPR"), the California Consumer Privacy Act of 2018 ("CCPA") as amended, and China's Personal Information Protection Law ("PIPL") which came into effect as of November 1, 2021. These laws require the Company to comply with a range of compliance obligations regarding the handling of personal data. There are significant penalties for non-compliance including monetary fines, disruption of operations and reputational harm. Moreover, other states and governmental authorities around the world have introduced or passed, or are considering, similar legislation which may impose varying standards and requirements on our data collection, use and processing activities.

This increasingly restrictive and evolving regulatory environment at the international, federal and state level related to data privacy and data protection may continue to require changes to our business practices and give rise to significantly expanded compliance burdens, costs and enforcement risks. Moreover, many of these laws and regulations are subject to uncertain application, interpretation or enforcement standards that could result in claims, changes to our business practices, data processing and security systems, penalties, increased operating costs or other impacts on our businesses. These laws often provide for civil penalties for violations, as well as private rights of action for data breaches that may increase data breach litigation. We proactively use internal and external resources to monitor compliance with relevant legislation and continually evaluates and, where necessary, modifies its data processing practices and policies in order to comply with evolving privacy laws. Nevertheless, relevant regulatory authorities could determine that our data handling practices fail to address all the requirements of certain new laws, which could subject us to penalties and/or litigation. In addition, there is no assurance that our security controls over personal data, the training of employees and vendors on data privacy and data security, and the policies, procedures and practices we implemented or may implement in the

future will prevent the improper handling of, disclosure of or access to personal data. Improper handling and disclosure of or access to personal data in violation of the GDPR, PIPL, the CCPA and/or of other data privacy and protection laws could harm our reputation, cause loss of consumer confidence, subject us to government enforcement actions (including fines), or result in private litigation against us, which could result in loss of revenue, increased costs, liability for monetary damages, fines and/or criminal prosecution, all of which could negatively affect our business and operating results.

We are subject to taxes in the U.S. and various foreign jurisdictions, and changes in laws, regulation or interpretation of existing laws and regulations in the U.S. and other jurisdictions where we are subject to taxation, could increase our taxes and have an adverse effect on our financial results. In addition, the application of tax law is subject to interpretation and is subject to audit by taxing authorities. Additionally, administrative guidance can be incomplete or vary from legislative intent, and therefore the application of the tax law is uncertain. While we believe the positions reported by the Company comply with relevant tax laws and regulations, taxing authorities could interpret our application of certain laws and regulations differently.

We are currently subject to tax audits in the U.S. and other taxing jurisdictions around the world. In some cases, we have appealed and may continue to appeal, assessments by taxing authorities in the court system. As such, tax controversy matters may result in previously unrecorded tax expenses, accelerated cash tax payments, higher future tax expenses, or the assessment of interest and penalties.

RESULTS OF LEGAL PROCEEDINGS COULD HAVE A MATERIAL EFFECT ON OUR CONSOLIDATED FINANCIAL RESULTS. We are a party to various legal, regulatory and governmental proceedings and other related matters, including with respect to environmental matters. In addition, we are and may become subject to other loss contingencies, both known and unknown, which may relate to past, present and future facts, events, circumstances and occurrences. Should an unfavorable outcome occur in connection with our legal, regulatory or governmental proceedings or other loss contingencies, or if we become subject to any such loss contingencies in the future, there could be a material adverse impact on our financial results. See [Note 14 Commitments and Contingent Liabilities](#) on pages 71 through 75 of [Item 8. Financial Statements and Supplementary Data](#) for further information.

IF THE SPIN-OFF OF SYLVAMO CORPORATION WERE TO FAIL TO QUALIFY FOR NON-RECOGNITION TREATMENT FOR U.S. FEDERAL INCOME TAX PURPOSES, THEN INTERNATIONAL PAPER AND OUR SHAREHOLDERS MAY BE SUBJECT TO SIGNIFICANT U.S. FEDERAL INCOME TAXES. The Company received an opinion of tax counsel and a private letter ruling from the U.S. Internal Revenue Service (the "IRS") regarding the qualification of the spin-off of Sylvamo Corporation and certain related transactions as a transaction that is generally tax-free to Sylvamo Corporation, the Company and the shareholders of the Company for U.S. federal income tax purposes. A tax opinion is not binding on the IRS or the courts, and there can be no assurance that the IRS or a court will not take a contrary position. In addition, the Company's tax counsel and the IRS relied on certain representations and covenants delivered by the Company and Sylvamo Corporation in rendering such opinion and private letter ruling. If any of the representations or covenants relied upon for the tax opinion or private letter ruling become inaccurate, incomplete or not complied with by the Company, Sylvamo Corporation or any of their respective subsidiaries, the tax opinion may be invalid and the conclusions reached therein could be jeopardized.

If the IRS ultimately determines that the spin-off is taxable, then the spin-off could be treated as a taxable dividend or capital gain to the Company's shareholders for U.S. federal income tax purposes, and the Company could incur significant U.S. federal income tax liabilities. These income tax liabilities may be indemnifiable by Sylvamo Corporation pursuant to a tax matters agreement between the Company and Sylvamo. However, there can be no assurance that Sylvamo would have the resources or liquidity required to indemnify the Company for any such tax liability.

Even if the spin-off otherwise qualifies for non-recognition of gain or loss under Section 355 of the Code, the spin-off may be taxable to the Company (but not the shareholders of the Company) pursuant to Section 355(e) of the Code if there is a 50% or more (by vote or value) change in ownership of either the Company or Sylvamo Corporation, directly or indirectly, as part of a plan or series of related transactions that include the spin-off. For this purpose, any acquisitions of the Company's or Sylvamo Corporation's common stock within two years before or after the spin-off are presumed to be part of such a plan, although the Company or Sylvamo Corporation may be able to rebut that presumption based on either applicable facts and circumstances or a "safe harbor" described in the U.S. tax regulations.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

MILLS AND PLANTS

A listing of our production facilities by segment, the vast majority of which we own, can be found in [Appendix I](#) hereto, which is incorporated herein by reference.

The Company's facilities are in good operating condition and are suited for the purposes for which they are presently being used. We continue to study the economics of modernization or adopting other alternatives for higher cost facilities.

CAPITAL INVESTMENTS AND DISPOSITIONS

Given the size, scope and complexity of our business interests, we continually examine and evaluate a wide variety of business opportunities and planning alternatives, including possible acquisitions and sales or other dispositions of properties. You can find a discussion about the level of planned capital investments for 2023 on page 35, and dispositions

and restructuring activities as of December 31, 2022, on page 31 of [Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations](#), and in [Note 7 Acquisitions](#) on page 62 of [Item 8. Financial Statements and Supplementary Data](#).

ITEM 3. LEGAL PROCEEDINGS

Information concerning certain legal proceedings of the Company is set forth in [Note 14 Commitments and Contingent Liabilities](#) on pages 71 through 75 of [Item 8. Financial Statements and Supplementary Data](#) which is incorporated herein by reference.

The Company is not subject to any administrative or judicial proceeding arising under any Federal, State or local provisions that have been enacted or adopted regulating the discharge of materials into the environment or primarily for the purpose of protecting the environment that is likely to result in monetary sanctions of \$1 million or more.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

PART II.**ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES**

As of the filing of this Annual Report on Form 10-K, the Company's common shares are traded on the New York Stock Exchange (NYSE: IP). As of February 10, 2023, there were approximately 8,608 record holders of common stock of the Company.

We pay regular quarterly cash dividends and expect to continue to pay regular quarterly cash dividends in the foreseeable future, though each quarterly dividend payment is subject to review and approval by our Board of Directors.

The table below presents information regarding the Company's purchases of its equity securities for the time periods presented.

PURCHASES OF EQUITY SECURITIES BY THE ISSUER AND AFFILIATED PURCHASERS.

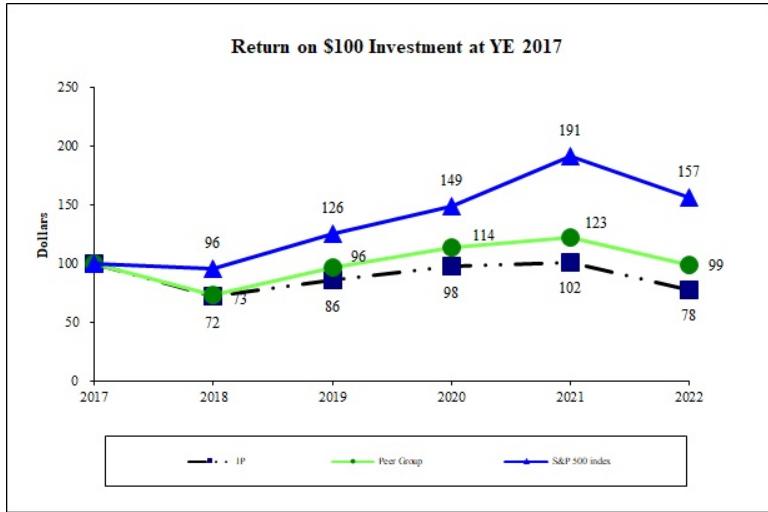
Period	Total Number of Shares Purchased (a)	Average Price Paid per Share	Maximum Number (or Approximate Dollar Value) of Shares that May Yet Be Purchased Under the Plans or Programs	
			Total Number of Shares (or Units) Purchased as Part of Publicly Announced Programs	Programs (in billions)
October 1, 2022 - October 31, 2022	12,056	\$ 31.70	—	\$ 3.35
November 1, 2022 - November 30, 2022	3,075,160	34.83	3,074,156	3.25
December 1, 2022 - December 31, 2022	2,314,920	36.30	2,314,920	3.16
Total	5,402,136			

(a) 13,061 shares were acquired from employees or board members as a result of share withholdings to pay income taxes under the Company's restricted stock program. The remainder were purchased under a share repurchase program. As of December 31, 2022 approximately \$3.16 billion aggregate shares of our common stock remained authorized for repurchase under a previous Board authorization. This authorization was increased by our Board on October 11, 2022, up to a total of \$3.35 billion shares. This repurchase program does not have an expiration date.

PERFORMANCE GRAPH

The performance graph shall not be deemed "soliciting material" or to be "filed" with the Commission or subject to Regulation 14A or 14C under, or to the liabilities of Section 18 of, the Exchange Act of 1934, as amended and will not be deemed to be incorporated by reference into any filing of the Company under the Securities Act of 1933, as amended, or the Exchange Act, except to the extent the Company specifically incorporates it by reference into such a filing.

The following line graph compares a \$100 investment in Company stock on December 31, 2017 with a \$100 investment in our Peer Group and the S&P Composite-500 Stock Index (S&P 500 Index) also made at market close on December 31, 2017. The graph portrays total return, 2017-2022, assuming reinvestment of all dividends.



- 1) The companies included in the Peer Group are DS Smith PLC, Klabin S.A., Mondi Group, Packaging Corporation of America, Smurfit Kappa Group, Stora Enso Group, and WestRock Company.
- 2) Returns are calculated in \$USD

ITEM 6. RESERVED**ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS**

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our consolidated financial statements and related notes included in "Financial Statements and Supplementary Data" of this Annual Report on Form 10-K. In addition to historical consolidated financial information, the following discussion

contains forward-looking statements that reflect our plans, estimates, and beliefs that involve significant risks and uncertainties. Our actual results could differ materially from those discussed in the forward-looking statements. Factors that could cause or contribute to those differences include those discussed below and elsewhere in this Annual Report on Form 10-K, particularly in "Risk Factors" and "Forward-Looking Statements."

The following generally discusses 2022 and 2021 items and year-to-year comparisons between 2022 and 2021. Discussion of historical items in 2020, and

year-to-year comparisons between 2021 and 2020, can be found in our Annual Report on Form 10-K for the fiscal year ended December 31, 2021, filed with the SEC on February 18, 2022, under Part II, Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations.

EXECUTIVE SUMMARY

Full-year 2022 net earnings attributable to shareholders were \$1.5 billion (\$4.10 per diluted share) compared with \$1.8 billion (\$4.47 per diluted share) for full-year 2021.

During 2022, International Paper grew revenue and earnings, driven by solid commercial and operational performance, while facing significant inflation and lower demand. Our businesses generated improved earnings as profit improvement initiatives and price realization offset significant inflationary cost headwinds. We continued to make solid progress in our Building a Better IP initiatives, delivering \$250 million of earnings benefits through initiatives focused on lowering our cost structure and accelerating profitable growth. As a result, we exceeded our full-year target and have strong momentum going forward. We made strategic investments, primarily in our Industrial Packaging business, in support of profitable growth and will continue to make such investments to grow earnings and cash generation by building additional capabilities and capacity in our U.S. box system. We made significant progress toward achieving value-creating returns in our Global Cellulose Fibers business by delivering \$100 million of earnings growth in 2022. The business expects to continue the earnings improvement in 2023. We generated full-year cash from operations of \$2.2 billion and free cash flow of \$1.2 billion. Our continued solid cash generation enabled us to return \$1.93 billion to shareholders, including \$1.26 billion in share repurchases and \$673 million in dividend payments. Finally, we reached agreement to sell our 50% interest in Ilim SA to our joint venture partners for \$484 million. Additionally, our partners have expressed interest in purchasing our shares in JSC Ilim Group for \$24 million. Upon sale of our interests in the Ilim joint venture, which are subject to regulatory approval, we will no longer have investments in Russia.

Comparing our 2022 results to 2021, price and mix improved significantly for both the North American Industrial Packaging and Global Cellulose Fibers businesses, with strong price realization across all of our channels, along with the benefits of commercial initiatives. Volume was lower in our North American Industrial Packaging business following stronger packaging demand in 2021 as consumers had pulled forward purchases of goods during the pandemic. In

2022, demand was also negatively impacted as consumers shifted priorities toward both non-discretionary goods as well as services while dealing with inflation. Operating costs were negatively impacted by lower volumes in our North American Industrial Packaging business. High inflation on materials and services also negatively impacted operating costs in our North American Industrial Packaging and Global Cellulose Fibers businesses. Rising supply chain costs negatively impacted both businesses during 2022. Higher operating costs were partially offset by improved mill performance and reliability. Maintenance outage expense increased, as planned, impacted by high inflation on equipment, parts and contracted services. Input costs rose sharply across nearly all categories, with higher energy and fuel costs being the leading drivers. Corporate expenses were favorable driven by overhead streamlining initiatives.

Looking ahead to the first quarter 2023, as compared to the fourth quarter 2022, in our Industrial Packaging business, we expect price and mix to be lower based on prior price index movements and lower average export prices. Volume is expected to be higher in the first quarter 2023 due to four more shipping days in North America, partially offset by normal seasonal declines in North America. Operations and costs are expected to decrease earnings due to the non-repeat of favorable one-time items in the fourth quarter 2022, seasonally higher energy consumption and additional inflation on materials and services. Maintenance outage expense is expected to be significantly higher as the first quarter will be our highest outage quarter this year, representing about 40% of total planned outage costs in 2023. Input costs are expected to improve on lower average costs for energy, fuel and fiber. In our Global Cellulose Fibers business, we expect price and mix to improve. We expect volume to decrease due to seasonally lower demand and customer inventory destocking in response to increased supply chain velocity. Operations and costs are expected to increase on the non-repeat of a favorable one-time items in the fourth quarter 2022. Operations and costs will also be impacted by higher unabsorbed fixed costs due to lower volumes, seasonally higher energy consumption and additional inflation on materials and services. Maintenance outage expense is expected to increase as the first quarter 2023 will also be Global Cellulose Fibers highest maintenance outage quarter in 2023. Input costs are expected to decrease driven by lower energy and fiber.

Looking to full-year 2023, we believe we have significant opportunities to reduce high marginal costs across our system and capture further benefits from our Building a Better IP initiatives. The Building a Better IP initiatives are focused on continuing to

invest in projects to drive structural cost reduction through efficiency improvements and accelerating profitable growth. We expect continued momentum from these initiatives as we move into 2023 including meaningful earnings growth in our Global Cellulose Fibers business as a result of our commercial strategy execution. We expect cash from operations ranging from \$1.9 billion to \$2.3 billion with free cash flow of \$0.9 billion to \$1.1 billion. Included in both ranges is approximately \$190 million for the tax settlement payment related to our timber monetization transaction. With respect to our capital allocation framework, we are targeting capital expenditures of \$1.0 billion to \$1.2 billion with increased investments in our US box system to build additional capabilities and support profitable growth with our customers. As previously mentioned, we returned approximately \$1.9 billion of cash to shareowners in 2022. In October 2022, our board of directors authorized an additional \$1.5 billion of share repurchases with a total current authorization of approximately \$3.2 billion. Going forward, we are committed to returning cash through maintaining our dividend and through opportunistic share repurchases.

Adjusted Operating Earnings and Adjusted Operating Earnings Per Share are non-GAAP measures and are defined as net earnings (loss) attributable to International Paper (a GAAP measure) excluding discontinued operations, net special items and non-operating pension expense (income). Net earnings (loss) and Diluted earnings (loss) per share attributable to common shareholders are the most directly comparable GAAP measures. The Company calculates Adjusted Operating Earnings by excluding the after-tax effect of discontinued operations, non-operating pension expense (income) and items considered by management to be unusual (net special items) from net earnings (loss) attributable to shareholders reported under GAAP. Adjusted Operating Earnings Per Share is calculated by dividing Adjusted Operating Earnings by diluted average shares of common stock outstanding. Management uses this measure to focus on on-going operations, and believes that it is useful to investors because it enables them to perform meaningful comparisons of past and present consolidated operating results from continuing operations. The Company believes that using this information, along with the most direct comparable GAAP measure, provides for a more complete analysis of the results of operations.

The following are reconciliations of Earnings (loss) attributable to common shareholders to Adjusted operating earnings (loss) attributable to common shareholders on a total and per share basis. Additional detail is provided later in this Form 10-K regarding the net special items referenced in the charts below:

<i>In millions</i>	2022	2021
Net Earnings (Loss) Attributable to Shareholders	\$ 1,504	\$ 1,752
Less - Discontinued operations, net of taxes (gain) loss	237	(941)
Earnings (Loss) from Continuing Operations	1,741	811
Add back - Non-operating pension expense (income)	(192)	(200)
Add back - Net special items expense (income)	233	371
Income tax effect - Non-operating pension and special items expense	(614)	(38)
Adjusted Operating Earnings (Loss) Attributable to Shareholders	\$ 1,168	\$ 944

	2022	2021
Diluted Earnings (Loss) Per Share Attributable to Shareholders	\$ 4.10	\$ 4.47
Less - Discontinued operations, net of taxes (gain) loss per share	0.64	(2.40)
Diluted Earnings (Loss) Per Share from Continuing Operations	4.74	2.07
Add back - Non-operating pension expense (income) per share	(0.52)	(0.51)
Add back - Net special items expense (income) per share	0.63	0.94
Income tax effect per share - Non-operating pension and special items expense	(1.67)	(0.09)
Adjusted Operating Earnings (Loss) Per Share Attributable to Shareholders	\$ 3.18	\$ 2.41

	Three Months Ended	Three Months Ended	Three Months Ended
<i>In millions</i>	December 31, 2022	September 30, 2022	December 31, 2021
Net Earnings (Loss) Attributable to Shareholders	\$ (318)	\$ 951	\$ 107
Less - Discontinued operations, net of taxes (gain) loss	489	(64)	(58)
Earnings (Loss) from Continuing Operations	171	887	49
Add back - Non-operating pension expense (income)	(48)	(48)	(47)
Add back - Net special items expense (income)	144	117	295
Income tax effect - Non-operating pension and special items expense	42	(656)	(62)
Adjusted Operating Earnings (Loss) Attributable to Shareholders	\$ 309	\$ 300	\$ 235

	Three Months Ended December 31, 2022	Three Months Ended September 30, 2022	Three Months Ended December 31, 2021
Diluted Earnings (Loss) Per Share			
Attributable to Shareholders	\$ (0.90)	\$ 2.64	\$ 0.28
Less - Discontinued operations, net of taxes (gain) loss per share	1.38	(0.18)	(0.15)
Diluted Earnings (Loss) Per Share from Continuing Operations			
	0.48	2.46	0.13
Add back - Non-operating pension expense (income) per share	(0.13)	(0.13)	(0.12)
Add back - Net special items expense (income) per share	0.41	0.32	0.77
Income tax effect per share - Non-operating pension and special items expense	0.11	(1.82)	(0.17)
Adjusted Operating Earnings (Loss) Per Share Attributable to Shareholders			
	\$ 0.87	\$ 0.83	\$ 0.61

Cash provided by operations, including discontinued operations, totaled \$2.2 billion and \$2.0 billion for 2022 and 2021, respectively. The Company generated free cash flow of approximately \$1.2 billion in 2022 and \$1.5 billion in 2021. Free Cash Flow is a non-GAAP measure and the most directly comparable GAAP measure is cash provided by operations. Management utilizes this measure in connection with managing our business and believes that free cash flow is useful to investors as a liquidity measure because it measures the amount of cash generated that is available, after reinvesting in the business, to maintain a strong balance sheet, pay dividends, repurchase stock, service debt and make investments for future growth. It should not be inferred that the entire free cash flow amount is available for discretionary expenditures. By adjusting for certain items that are not indicative of the Company's ongoing underlying operational performance, we believe that free cash flow also enables investors to perform meaningful comparisons between past and present periods.

The following are reconciliations of free cash flow to cash provided by operations:

	2022	2021
<i>In millions</i>		
Cash provided by operations	\$ 2,174	\$ 2,030
Adjustments:		
Cash invested in capital projects, net of insurance recoveries	(931)	(549)
Free Cash Flow	\$ 1,243	\$ 1,481

	Three Months Ended December 31, 2022	Three Months Ended September 30, 2022	Three Months Ended December 31, 2021
<i>In millions</i>			
Cash provided by operations	\$ 761	\$ 435	\$ 107
Adjustments:			
Cash invested in capital projects, net of insurance recoveries	(322)	(238)	(201)
Free Cash Flow	\$ 439	\$ 197	\$ (94)

The non-GAAP financial measures presented in this Form 10-K as referenced above have limitations as analytical tools and should not be considered in isolation or as a substitute for an analysis of our results calculated in accordance with GAAP. In addition, because not all companies utilize identical calculations, the Company's presentation of non-GAAP measures in this Form 10-K may not be comparable to similarly titled measures disclosed by other companies, including companies in the same industry as the Company.

RESULTS OF OPERATIONS

Business Segment Operating Profits are used by International Paper's management to measure the earnings performance of its businesses. Management uses this measure to focus on on-going operations and believes that it is useful to investors because it enables them to perform meaningful comparisons of past and present operating results. International Paper believes that using this information, along with net earnings, provides a more complete analysis of the results of operations by year.

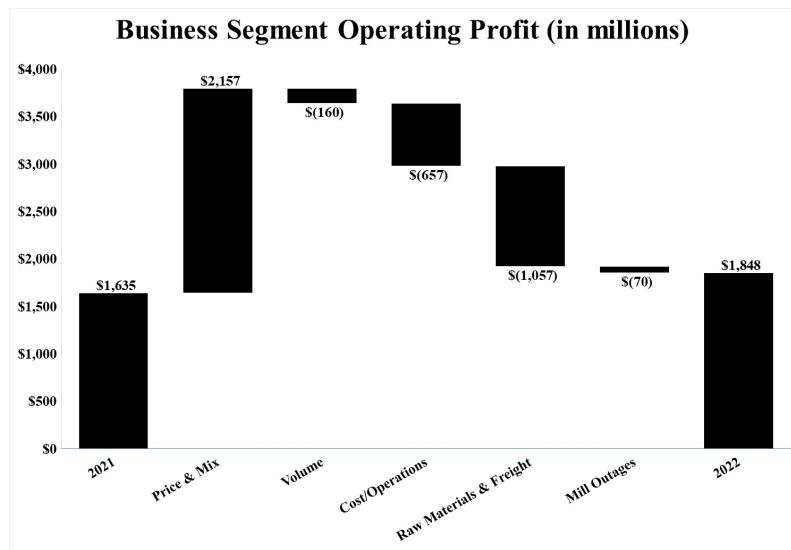
Business Segment Operating Profits are defined as earnings (loss) from continuing operations before income taxes and equity earnings, but including the impact of less than wholly owned subsidiaries, and excluding interest expense, net, corporate expenses, net, corporate net special items, business net special items and non-operating pension expense. Business Segment Operating Profits is a measure reported to our management for purposes of making decisions about allocating resources to our business segments and assessing the performance of our business segments and is presented in our financial statement footnotes in accordance with ASC 280.

International Paper operates in two segments: Industrial Packaging and Global Cellulose Fibers. The Company recently announced an agreement to sell its Ilm equity investment and, as a result, all current and historical results of the Ilm investment are presented as Discontinued Operations, net of taxes and our equity investment is no longer a separate reportable industry segment. During 2021, as a result of the spin-off of our Printing Papers business along with certain mixed-use coated paperboard and pulp businesses and the associated reclassification of these businesses to Discontinued Operations, we no longer have a Printing Paper segment and the remaining sales and operating profits previously reported in the Printing Papers business have been reclassified for segment reporting for all periods presented.

The following table presents a comparison of net earnings (loss) from continuing operations attributable to International Paper Company to its total Business Segment Operating Profit:

	2022	2021
<i>In millions</i>		
Net Earnings (Loss) from Continuing Operations Attributable to International Paper Company	\$ 1,741	\$ 811
Add back (deduct)		
Income tax provision (benefit)	(236)	188
Equity (earnings) loss, net of taxes	6	(2)
Noncontrolling interests, net of taxes	—	2
Earnings (Loss) From Continuing Operations Before Income Taxes and		
Equity Earnings	1,511	999
Interest expense, net	325	337
Adjustment for less than wholly owned subsidiaries	(5)	(5)
Corporate expenses, net	34	134
Corporate net special items	99	352
Business net special items	76	18
Non-operating pension expense (income)	(192)	(200)
	\$ 1,848	\$ 1,635
Business Segment Operating Profit (Loss):		
Industrial Packaging	\$ 1,742	\$ 1,638
Global Cellulose Fibers	106	(3)
Total Business Segment Operating Profit	\$ 1,848	\$ 1,635

Business Segment Operating Profit in 2022 was \$213 million higher than in 2021 as the benefits from higher average sales price realizations net of an unfavorable mix (\$2.2 billion) were partially offset by lower sales volumes (\$160 million), higher operating costs (\$657 million), higher input costs (\$1.1 billion) and higher maintenance outage costs (\$70 million).



The principal changes in operating profit by business segment were as follows:

- Industrial Packaging's operating profit of \$1.7 billion was \$104 million higher than in 2021 as the benefits of higher average sales price net of an unfavorable mix were partially offset by lower sales volumes, higher operating costs, higher input costs and higher maintenance outage costs.
- Global Cellulose Fibers' operating profit (loss) improved \$109 million to \$106 million profit compared with 2021 as the benefits of higher average sales price, favorable mix and sales volumes were partially offset by higher operating costs, higher input costs and higher maintenance outage costs.

LIQUIDITY AND CAPITAL RESOURCES

Including discontinued operations, International Paper generated \$2.2 billion of cash flow from operations for the year ended December 31, 2022, compared with \$2.0 billion in 2021. Capital spending for 2022 totaled \$931 million, or 90% of depreciation and amortization expense. Our liquidity position remains strong, supported by approximately \$2.0 billion of credit facilities.

RESULTS OF OPERATIONS

While the operating results for International Paper's various business segments are driven by a number of business-specific factors, changes in International Paper's operating results are closely tied to changes in general economic conditions in North America, Europe, Latin America, North Africa and the Middle East.

Factors that impact the demand for our products include industrial non-durable goods production, consumer preferences, consumer spending and movements in currency exchange rates.

Product prices are affected by a variety of factors including general economic trends, inventory levels, currency exchange rate movements and worldwide capacity utilization. In addition to these revenue-related factors, net earnings are impacted by various cost drivers, the more significant of which include changes in raw material costs, principally wood, recovered fiber and chemical costs; energy costs; freight costs; mill outage costs; salary and benefits costs, including pensions; and manufacturing conversion costs.

The following is a discussion of International Paper's consolidated results of operations for the year ended

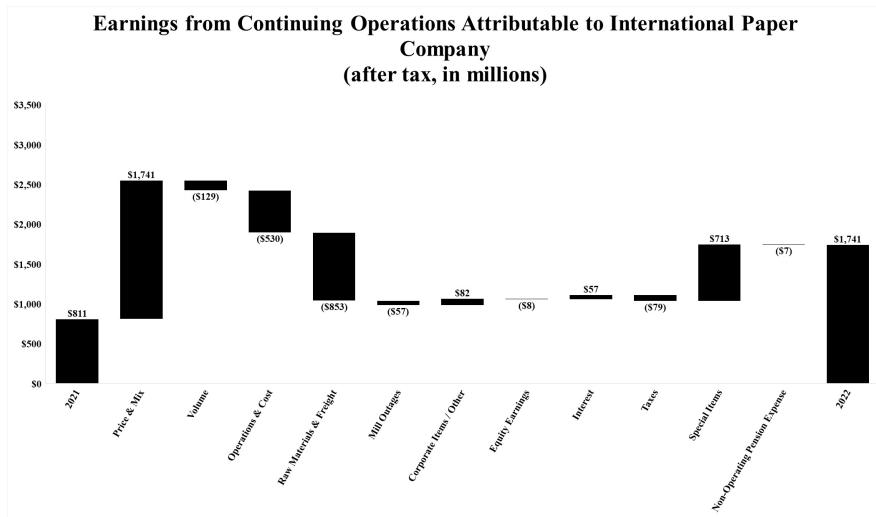
December 31, 2022, and the major factors affecting these results compared to 2021.

For the year ended December 31, 2022, International Paper reported net sales of \$21.2 billion, compared with \$19.4 billion in 2021. International net sales (based on the location of the seller and including U.S. exports) totaled \$5.9 billion or 28% of total sales in 2022. This compares with international net sales of \$5.2 billion in 2021.

Full year 2022 net earnings attributable to International Paper Company totaled \$1.5 billion (\$4.10 per diluted share), compared with net earnings of \$1.8 billion (\$4.47 per diluted share) in 2021. Amounts in 2022 and 2021 include the results of discontinued operations.

Earnings from continuing operations attributable to International Paper Company after taxes in 2022 and 2021 were as follows:

In millions	2022	2021
Earnings from continuing operations attributable to International Paper Company	\$ 1,741 (a)	\$ 811 (b)



See [Business Segment Results](#) on pages 32 and 33 of [Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations](#) for a discussion of the impact of these factors by segment.

(a) Includes \$429 million of net special items income and \$144 million of non-operating pension income.

(b) Includes \$284 million of net special items charges and \$151 million of non-operating pension income.

Compared with 2021, the benefits from higher average sales price net of an unfavorable mix (\$1.7 billion), lower corporate and other costs (\$82 million) and lower net interest expense (\$57 million) were partially offset by lower sales volumes (\$129 million), higher operating costs (\$530 million), higher input costs (\$853 million), higher maintenance outage costs (\$57 million) and higher tax expense (\$79 million). In addition, 2022 results included lower equity earnings, net of taxes. Our Building a Better IP initiatives delivered \$250 million of earnings in 2022 primarily though our lean effectiveness initiative which streamlined our corporate and staff functions and our strategy acceleration initiative to deliver profitable growth through commercial and investment excellence.

DISCONTINUED OPERATIONS

The Company recently announced it has reached an agreement to sell its equity investment in Ilm and has also received an indication of interest to purchase its

equity investment in Ilm Group. All current and historical results of the Ilm investment are presented as Discontinued Operations, net of taxes in the consolidated statement of operations. This transaction is discussed further in [Note 11 - Equity Method Investments](#) on pages 66 through 68 of [Item 8. Financial Statements and Supplementary Data](#) for further discussion.

On October 1, 2021, the Company completed the spin-off of its Printing Papers business along with certain mixed-use coated paperboard and pulp businesses in North America, France and Russia into a standalone, publicly-traded company, Sylvamo Corporation. On August 6, 2021, the Company completed the sale of its Kwidzyn, Poland mill which included the pulp and paper mill in Kwidzyn and supporting functions. As a result of the Sylvamo Corporation spin-off and sale of Kwidzyn, the Company no longer had a Printing Papers business segment and historical results reflect the Kwidzyn and the Printing Papers business and other businesses conveyed to Sylvamo Corporation as discontinued operations. See [Note 8 - Dispositions](#) on pages 62 through 64 of [Item 8. Financial Statements and Supplementary Data](#) for further discussion.

Discontinued operations include the equity and operating earnings of the businesses noted above. Discontinued operations also includes an after-tax net special items loss of \$533 million in 2022 and gain of \$330 million in 2021.

Details of these (gains) and losses were as follows:

<i>Special Items in Discontinued Operations</i>	<i>2022</i>	<i>2021</i>
<i>In millions</i>		
Ilm equity method investment impairment	\$ 533	\$ —
Printing Papers spin-off expenses	—	92
Gain on sale of Kwidzyn, Poland mill	—	(344)
Gain on sale of La Mirada, CA distribution center	—	(65)
Foreign value-added tax credit (including interest)	—	(37)
Foreign and state taxes related to Printing Papers spin-off	—	24
Total	\$ 533	\$ (330)

INCOME TAXES

A net income tax benefit from continuing operations of \$236 million was recorded for 2022, including a tax benefit of \$604 million related to the settlement of the timber monetization restructuring tax matter, a tax

benefit of \$66 million related to the tax-free exchange of our shares of Sylvamo Corporation and tax expense of \$45 million related to a foreign deferred tax valuation allowance. Excluding these items, a \$37 million net tax benefit for other special items and a \$48 million tax expense related to non-operating pension income, the operational tax provision (non-GAAP) was \$378 million, or 24% of pre-tax earnings before equity earnings.

A net income tax provision from continuing operations of \$188 million was recorded for 2021. Excluding a \$87 million net tax benefit for other special items and a \$49 million tax expense related to non-operating pension income, the operational tax provision (non-GAAP) was \$226 million, or 19% of pre-tax earnings before equity earnings.

The operational tax provision and rate are non-GAAP measures and are calculated by adjusting the income tax provision from continuing operations and rate to exclude net special items and non-operating pension expense (income). Management adjusts the income tax provision and rate to account for non-recurring, non-operational items as we believe it provides a more meaningful comparison of the income tax rate between past and present periods.

INTEREST EXPENSE, EQUITY EARNINGS, NET OF TAXES AND NONCONTROLLING INTEREST

Net corporate interest expense totaled \$325 million in 2022 and \$337 million in 2021. Net interest expense in 2022 includes \$58 million of interest expense related to the timber monetization restructuring tax matter. The decrease in 2022 compared with 2021 was due to lower average outstanding debt.

Equity earnings, net of taxes were a loss of \$6 million and income of \$2 million in 2022 and 2021, respectively.

Net earnings attributable to noncontrolling interests were \$2 million in 2021. There were no net earnings attributable to noncontrolling interests in 2022.

SPECIAL ITEMS

Pre-tax special items (excluding interest expense) included in continuing operations totaling \$175 million and \$371 million were recorded in 2022 and 2021, respectively. Details of these charges were as follows:

Special Items		2022	2021
In millions			
Business Segments			
Restructuring and other, net	\$ —	\$ 25	
Net (gains) losses on sales and impairments of businesses	76	(7)	
Other	—	1 (a)	
	76	19	
Corporate			
Restructuring and other, net	\$ 89	\$ 484	
Environmental remediation reserve adjustments	63	10	
Legal reserve adjustments	(4)	(5)	
Foreign currency cumulative translation loss related to sale of equity method investment	10	—	
Sylvamo investment fair value adjustment	(65)	32	
Real estate - office impairment	—	21	
Gain on sale of portion of equity investment in Graphic Packaging	—	(204)	
Other	6	14	
	99	352	
Total	\$ 175	\$ 371	

(a) Allocation of income to noncontrolling interest associated with the sale of our EMEA Packaging business in Turkey.

Net (gains) losses on sales and impairments of businesses included in special items totaled a pre-tax loss of \$76 million and gain of \$7 million in 2022 and 2021, respectively. Details of these (gains) losses were as follows:

Net (Gains) Losses on Sales and Impairments of Businesses		2022	2021
In millions			
EMEA Packaging goodwill impairment	\$ 76	\$ —	
EMEA Packaging - Turkey	—	(7)	
Total	\$ 76	\$ (7)	

See [Note 8 Divestitures](#) on pages 62 through 64 of [Item 8. Financial Statements and Supplementary Data](#) for further discussion.

International Paper continually evaluates its operations for improvement opportunities targeted to (a) focus our portfolio on our core businesses, (b) realign capacity to operate fewer facilities with the same revenue capability, (c) close high cost, unprofitable facilities, and (d) reduce costs. Additionally, the Company is committed to its capital

allocation framework to maintain a strong balance sheet including reducing debt to maximize value creation and maintain our current investment grade credit rating.

During 2022 and 2021, pre-tax restructuring and other charges, net, totaling \$89 million and \$509 million were recorded. Details of these charges were as follows:

Restructuring and Other, Net		2022	2021
In millions			
Business Segments			
Building a Better IP initiative	\$ —	\$ 14 (a)	
EMEA Packaging optimization	—	12	
Other	—	(1) (b)	
	—	25	
Corporate			
Early debt extinguishment costs (see Note 16)	\$ 93	\$ 461	
Building a Better IP initiative	—	15	
Other	(4)	8	
	89	484	
Total	\$ 89	\$ 509	

(a) Includes \$11 million recorded in the Industrial Packaging business segment and \$3 million recorded in the Global Cellulose Fibers business segment.

(b) Recorded in the Industrial Packaging business segment.

DESCRIPTION OF BUSINESS SEGMENTS

International Paper's business segments discussed below are consistent with the internal structure used to manage these businesses. All segments are differentiated on a common product, common customer basis consistent with the business segmentation generally used in the forest products industry.

INDUSTRIAL PACKAGING

International Paper is the largest manufacturer of containerboard in the United States. Our U.S. production capacity is over 13 million tons annually. Our products include linerboard, medium, whitetop, recycled linerboard, recycled medium and saturating kraft. About 80% of our production is converted into corrugated packaging and other packaging by our 176 North American corrugated packaging plants. Additionally, we recycle approximately one million tons of OCC and mixed and white paper through our 16 U.S. recycling plants. Our corrugated packaging plants are supported by regional design centers, which offer total packaging solutions and supply chain initiatives. In EMEA, our operations include a recycled fiber containerboard mill in Morocco and one in Spain and 24 corrugated packaging plants in France, Italy, Spain, Morocco and Portugal.

GLOBAL CELLULOSE FIBERS

Our cellulose fibers product portfolio includes fluff, market and specialty pulps. International Paper is the largest producer of fluff pulp which is used to make absorbent hygiene products like baby diapers, feminine care, adult incontinence and other non-woven products. Our market pulp is used for tissue and paper products. We continue to invest in exploring new innovative uses for our products, such as our specialty pulps, which are used for non-absorbent end uses including textiles, filtration, construction material, paints and coatings, reinforced plastics and more. Our products are made in the United States and Canada and are sold around the world. International Paper facilities have annual dried pulp capacity of about 3 million metric tons.

BUSINESS SEGMENT RESULTS

The following tables present net sales and operating profit (loss) which is the Company's measure of segment profitability.

INDUSTRIAL PACKAGING

Demand for Industrial Packaging products is closely correlated with non-durable industrial goods production, as well as with demand for e-commerce, processed foods, poultry, meat and agricultural products. In addition to prices and volumes, major factors affecting the profitability of Industrial Packaging are raw material and energy costs, freight costs, mill outage costs, manufacturing efficiency and product mix.

<i>Industrial Packaging</i>	2022	2021
<i>In millions</i>		
Net Sales	\$ 17,451	\$ 16,326
Operating Profit (Loss)	\$ 1,742	\$ 1,638

Industrial Packaging net sales for 2022 increased 7% to \$17.5 billion compared with \$16.3 billion in 2021. Operating profits in 2022 were 6% higher than in 2021. Comparing 2022 with 2021, benefits from higher average sales price net of an unfavorable mix (\$1.6 billion) were offset by lower sales volumes (\$168 million), higher operating costs (\$400 million), higher input costs (\$882 million) and higher maintenance outage costs (\$59 million).

<i>North American Industrial Packaging</i>	2022	2021
<i>In millions</i>		
Net Sales (a)	\$ 16,011	\$ 14,944
Operating Profit (Loss)	\$ 1,753	\$ 1,605

(a) Includes intra-segment sales of \$132 million for 2022 and \$126 million for 2021.

North American Industrial Packaging's average sales margins were higher reflecting higher prices for both containerboard and corrugated boxes. Sales volumes decreased in 2022 compared with 2021 for corrugated boxes across our segments driven by the macroeconomic environment reflecting lower consumer spending on goods and retailer inventory destocking. Containerboard sales volumes also decreased. Total maintenance and economic downtime was about 956,000 short tons higher in 2022 compared with 2021, primarily due to economic downtime. Operating and distribution costs increased, primarily due to inflation on materials and services and supply chain and labor constraints. Planned maintenance downtime costs were \$58 million higher in 2022 than in 2021. Input costs were significantly higher, driven by higher energy, wood and chemical costs.

Looking ahead to the first quarter of 2023, compared with the fourth quarter of 2022, sales volumes for corrugated boxes and containerboard are expected to increase reflecting four additional shipping days partially offset by the normal season decline. Average sales margins are expected to be lower. Operating costs are expected to increase. Planned maintenance downtime costs are expected to be \$95 million higher. Input costs are expected to be lower primarily for recovered fiber and energy.

EMEA Industrial Packaging

	2022	2021
Net Sales	\$ 1,572	\$ 1,508
Operating Profit (Loss)	\$ (11)	\$ 33

EMEA Industrial Packaging's average sales margins were higher in the Eurozone driven by higher average sales price. Average sales margins in Morocco were lower reflecting the impact of an unfavorable product mix. Sales volumes in 2022 were lower than in 2021 driven by the sale of our EMEA Packaging business in Turkey in May 2021. Operating costs were higher driven by inflation on materials and services. Planned maintenance outage costs were higher in 2022 compared with 2021. Input costs were significantly higher, driven by unprecedented energy costs.

Entering the first quarter of 2023, compared with the fourth quarter of 2022, sales volumes are expected to be higher driven by seasonality in Morocco. Average sales margins are expected to be higher, reflecting lower containerboard costs. Operating costs are expected to be higher. Planned maintenance outage costs are expected to be \$4 million lower due to no planned outages in the first quarter. Other input costs are expected to be stable.

GLOBAL CELLULOSE FIBERS

Demand for Cellulose Fibers products is closely correlated with changes in demand for absorbent hygiene products, primarily driven by the demographics and income growth in various geographic regions. It is further affected by changes in currency rates that can benefit or hurt producers in different geographic regions. Principal cost drivers include manufacturing efficiency, raw material and energy costs, mill outage costs, and freight costs.

<i>Global Cellulose Fibers</i>	2022	2021
<i>In millions</i>		
Net Sales	\$ 3,227	\$ 2,732
Operating Profit (Loss)	\$ 106	\$ (3)

Global Cellulose Fibers net sales for 2022 increased 18% to \$3.2 billion, compared with \$2.7 billion in 2021. Operating profits in 2022 improved significantly compared to 2021. Comparing 2022 with 2021, benefits from higher average sales price, a favorable mix and sales volumes (\$552 million) were partially offset by higher operating costs (\$257 million), higher input costs (\$175 million) and higher maintenance outage costs (\$11 million).

Sales volumes in 2022 compared with 2021 were lower reflecting the challenging supply chain environment. Total maintenance and economic downtime was about 13,000 short tons higher in 2022 compared with 2021, primarily due to economic downtime. Average sales margins were higher, reflecting higher average fluff and market pulp prices. Operating costs increased, driven by inflation on materials and services and supply chain related mill slowdowns and downtime. Distribution costs were significantly higher driven by continuing global supply chain disruptions. Planned maintenance outage costs were \$11 million higher in 2022. Input costs were significantly higher, driven by chemicals, wood and energy.

Entering the first quarter of 2023, compared with the fourth quarter of 2022, sales volumes are expected to be lower reflecting seasonally lower demand and customer inventory destocking in response to increased supply chain velocity. Average sales margins are expected to improve. Operating costs are expected to be higher. Planned maintenance outage costs are expected to be \$13 million higher than in the fourth quarter of 2022. Input costs are expected to be lower, primarily for energy.

EQUITY EARNINGS, NET OF TAXES - ILIM

On January 24, 2023, the Company announced it had reached an agreement to sell its equity investment in Ilim and also received from the same purchasers an

indication of interest to purchase its equity investment in Ilim Group. This transaction is discussed further in [Note 11 - Equity Method Investments](#) on pages 66 through 68 of [Item 8. Financial Statements and Supplementary Data](#).

All current and historical results of the Ilim investment are presented as Discontinued Operations, net of taxes in the consolidated statement of operations. The Company recorded equity earnings, net of taxes, related to Ilim of \$296 million in 2022, compared with earnings of \$311 million in 2021.

Higher sales volumes and better sales margins in 2022 were more than offset by higher input costs, shipping costs and repair expenses. Sales volumes for the joint venture increased by 5% in 2022, primarily for softwood pulp and containerboard shipments to China, partially offset by lower shipments of softwood pulp and containerboard to other export markets. Average sales margins were significantly higher for sales of softwood pulp and hardwood pulp reflecting higher average sales prices in all markets. Average sales margins for shipments of containerboard declined reflecting lower average sales prices in all markets. Input costs were higher, primarily for wood, fuel and chemicals. Distribution costs were negatively impacted by higher transportation tariffs and other inflationary pressures. Maintenance and repair expenses were higher due in part to repairs to recovery boiler No. 2 at the Ust-Ilimsk mill in the fourth quarter of 2022. The Company received cash dividends from the joint venture of \$204 million in 2022 and \$154 million in 2021.

LIQUIDITY AND CAPITAL RESOURCES**OVERVIEW**

A major factor in International Paper's liquidity and capital resource planning is its generation of operating cash flow, which is highly sensitive to changes in the pricing and demand for our major products. While changes in key operating cash costs, such as raw material, energy, mill outage and distribution, do have an effect on operating cash generation, we believe that our focus on commercial and operational excellence, as well as our ability to tightly manage costs and working capital has improved our cash flow generation over an operating cycle.

Use of cash during 2022 was primarily focused on working capital requirements, capital spending and returning cash to shareholders through dividends and share repurchases under the Company's share repurchase program.

CASH PROVIDED BY OPERATING ACTIVITIES

Cash provided by operations, including discontinued operations, totaled \$2.2 billion in 2022, compared with \$2.0 billion for 2021. Cash used by working capital components (accounts receivable, contract assets and inventory less accounts payable and accrued liabilities, interest payable and other) totaled \$145 million in 2022, compared with cash used by working capital components of \$426 million in 2021. Cash dividends received from equity investments were \$204 million in 2022, compared with \$159 million in 2021.

INVESTMENT ACTIVITIES

Including discontinued operations, investment activities in 2022 decreased from 2021, as 2021 included proceeds from the sale of the Kwidzyn, Poland mill and the sale of our ownership interest in Olmuksan International Paper for \$827 million, net of cash divested, proceeds from the monetization of our investment in Graphic Packaging International Partners, LLC (GPIP) for \$908 million and proceeds of \$4.85 billion from the settlement of the 2015 Financing Entities Timber Notes (see [Note 15 Variable Interest Entities](#) on pages 75 and 76 of [Item 8. Financial Statements and Supplementary Data](#)). Capital spending was \$931 million in 2022, or 90% of depreciation and amortization, compared with \$549 million in 2021, or 45% of depreciation and amortization. Capital spending as a percentage of depreciation and amortization was 56% for Global Cellulose Fibers and 97% for Industrial Packaging in 2022.

The following table shows capital spending by business segment for the years ended December 31, 2022 and 2021, excluding amounts related to discontinued operations of \$69 million in 2021:

<i>In millions</i>	2022	2021
Industrial Packaging	\$ 762	\$ 382
Global Cellulose Fibers	143	83
Subtotal	905	465
Corporate and other	26	15
Capital Spending	\$ 931	\$ 480

Capital spending in 2023 is expected to be approximately \$1.0 billion to \$1.2 billion, or 91% to 109% of depreciation and amortization.

Acquisitions

See [Note 7 Acquisitions](#) on page 62 of [Item 8. Financial Statements and Supplementary Data](#) for a discussion of the Company's acquisitions.

FINANCING ACTIVITIES

Financing activities during 2022 included debt issuances of \$1.0 billion and reductions of \$1.0 billion. Including discontinued operations, financing activities during 2021 included debt issuances of \$1.5 billion and reductions of \$2.5 billion for a net decrease of \$1.0 billion.

Amounts related to early debt extinguishment during the years ended December 31, 2022 and 2021 were as follows:

<i>In millions</i>	2022	2021
Early debt reductions (a)	\$ 503	\$ 2,472
Pre-tax early debt extinguishment costs (b)	93	461

(a) *Reductions related to notes with interest rates ranging from 3.00% to 8.70% with original maturities from 2023 to 2048 for the years ended December 31, 2022 and 2021.*

(b) *Amounts are included in Restructuring and other charges in the accompanying consolidated statements of operations.*

The Company's early debt reductions in 2022 included debt tenders of \$498 million with interest rates ranging from 6.40% to 8.70% and maturity dates ranging from 2023 to 2039. In addition, during 2022, the Company had \$5 million in open market repurchases related to debt with interest rates ranging from 4.35% to 4.40% and maturity dates ranging from 2047 to 2048. In addition to the early debt reductions, the Company had debt reductions of \$514 million in 2022 related primarily to capital leases, debt maturities, and international debt.

In January 2023, the Company entered into a variable term loan agreement providing for a \$600 million term loan which was fully drawn on the date of such loan agreement and matures in 2028. The \$600 million debt was issued following the repayment of \$410 million of commercial paper earlier in 2023 and will also be used to repay debt maturing later in 2023 and general corporate purposes.

Other financing activities during 2022 included the net issuance of approximately 1.6 million shares of treasury stock. Repurchases of common stock and payments of restricted stock withholding taxes totaled \$1.3 billion, including \$1.3 billion related to shares repurchased under the Company's share repurchase program. The Company has repurchased 114.4 million shares at an average price of \$46.66, for a total of approximately \$5.3 billion, since the repurchase program began in September 2013 through December 31, 2022. The Company paid cash dividends totaling \$673 million during 2022.

Other financing activities during 2021 included the net issuance of approximately 1.9 million shares of

treasury stock. Repurchases of common stock and payments of restricted stock withholding taxes totaled \$838 million, including \$810.9 million related to shares repurchased under the Company's share repurchase program. The Company paid cash dividends totaling \$780 million during 2021.

Interest Rate Swaps

Our policy is to manage interest cost using a mixture of fixed-rate and variable-rate debt. To manage this risk, International Paper utilizes interest rate swaps to change the mix of fixed and variable rate debt. During 2020, International Paper terminated its interest rate swaps with a notional amount of \$700 million and maturities ranging from 2024 to 2026 with an approximate fair value of \$85 million. Subsequent to the termination of the interest rate swaps, the fair value basis adjustment is amortized to earnings as interest income over the same period as a debt premium on the previously hedged debt. The Company had no outstanding interest rate swaps for the years ended December 31, 2022 and 2021 (see [Note 17 Derivatives and Hedging Activities](#) on pages 78 through 81 of [Item 8. Financial Statements and Supplementary Data](#)).

Variable Interest Entities

Information concerning variable interest entities is set forth in [Note 15 Variable Interest Entities](#) on pages 75 and 76 of [Item 8. Financial Statements and Supplementary Data](#). In connection with the 2006 International Paper installment sale of forestlands, we received \$4.8 billion of installment notes. These installment notes were used by variable interest entities as collateral for borrowings from third-party lenders. These variable interest entities were restructured in 2015 when the installment notes and third-party loans were extended. The restructured variable interest entities held installment notes of \$4.8 billion and third-party loans of \$4.2 billion which both matured in August 2021. We settled the third-party loans at their maturity with the proceeds from the installment notes. This resulted in cash proceeds of approximately \$630 million representing our equity in the variable interest entities. Maturity of the installment notes and termination of the monetization structure also resulted in a \$72 million tax liability that was paid in the fourth quarter of 2021. On September 2, 2022, the Company and the Internal Revenue Service agreed to settle the previously disclosed timber monetization restructuring tax matter. Under this agreement, the Company will fully resolve the matter and pay \$252 million in U.S. federal income taxes. As a result, interest will also be charged upon closing of the audit. The amount of interest expense recognized through December 31, 2022 is \$58 million. As of December 31, 2022, \$89 million in U.S.

federal income taxes and \$28 million in interest expense have been paid as a result of the settlement agreement. The remaining \$163 million U.S. federal income tax liability and \$30 million accrued interest liability are recorded as current liabilities in the balance sheet. The reversal of the Company's remaining deferred tax liability associated with the 2015 Financing Entities of \$604 million was recognized as a one-time tax benefit in the third quarter of 2022.

LIQUIDITY AND CAPITAL RESOURCES OUTLOOK FOR 2023

We expect another year of solid cash generation in 2023. Furthermore, we intend to continue to make choices for the use of cash that are consistent with our capital allocation framework to drive long-term value creation. These include maintaining a strong balance sheet and investment grade credit rating, returning meaningful cash to shareholders through dividends and share repurchases and making organic investments to maintain our world-class system and strengthen our businesses.

On October 11, 2022, our Board of Directors approved an additional \$1.5 billion under our share repurchase program. This program does not have an expiration date and has approximately \$3.2 billion aggregate amount of shares of common stock remaining authorized for purchase as of December 31, 2022. We may continue to repurchase shares under such authorization in open market transactions (including block trades), privately negotiated transactions or otherwise, subject to prevailing market conditions, our liquidity requirements, applicable securities laws requirements and other factors. In addition, we pay regular quarterly cash dividends and expect to continue to pay regular quarterly cash dividends in the foreseeable future. Each quarterly dividend is subject to review and approval by our Board of Directors.

Capital Expenditures and Long-Term Debt

Capital spending for 2023 is planned at approximately \$1.0 billion to \$1.2 billion, or about 91% to 109% of depreciation and amortization.

At December 31, 2022, International Paper's credit agreements totaled \$2.0 billion, which is comprised of the \$1.5 billion contractually committed bank credit agreement and up to \$500 million under the receivables securitization program. Management believes these credit agreements are adequate to cover expected operating cash flow variability during the current economic cycle. The credit agreements generally provide for interest rates at a floating rate index plus a pre-determined margin dependent upon International Paper's credit rating. At December 31,

2022, the Company had no borrowings outstanding under the \$1.5 billion credit agreement or the \$500 million receivables securitization program. The Company's credit agreements are not subject to any restrictive covenants other than the financial covenants as disclosed on pages 76 through 78 in [Note 16 - Debt and Lines of Credit](#) of [Item 8. Financial Statements and Supplementary Data](#), and the borrowings under the receivables securitization program being limited by eligible receivables. The Company was in compliance with all its debt covenants at December 31, 2022 and was well below the thresholds stipulated under the covenants as defined in the credit agreements. Further the financial covenants do not restrict any borrowings under the credit agreements.

Under the terms of the Company's commercial paper program, individual maturities on borrowings may vary, but not exceed one year from the date of issue. Interest bearing notes may be issued either as fixed or floating rate notes. As of December 31, 2022, the Company had \$410 million outstanding under the program with remaining capacity of \$590 million. As of December 31, 2022, the remaining credit agreement capacity was \$1.1 billion.

International Paper expects to be able to meet projected capital expenditures, service existing debt, meet working capital and dividend requirements and make common stock and/or debt repurchases for the next 12 months and for the foreseeable future thereafter with current cash balances and cash from operations, supplemented as required by its existing credit facilities. The Company will continue to rely on debt and capital markets for the majority of any necessary long-term funding not provided by operating cash flows. Funding decisions will be guided by our capital structure planning objectives. The primary goals of the Company's capital structure planning are to maximize financial flexibility and maintain appropriate levels of liquidity to meet our needs while managing balance sheet debt and interest expense, and we have repurchased, and may continue to repurchase, our common stock (under our existing share repurchase program) and debt (including through open market purchases, privately negotiated transactions or otherwise) to the extent consistent with this capital structure planning. The majority of International Paper's debt is accessed through global public capital markets where we have a wide base of investors. During 2020, management took various actions to further strengthen the Company's liquidity position in response to the COVID-19 pandemic. This included the Company deferring the payment of our payroll taxes as allowed under CARES Act. The CARES Act allows for the deferral of the payment of the employer portion of Social Security taxes accrued between March 27,

2020 and December 31, 2020. Under the CARES Act 50% of the deferred payroll taxes was paid in 2021 and the remainder was paid in 2022. We believe that our credit agreements and commercial paper program provide us with sufficient liquidity to operate in the current negative macroeconomic environment; however, an extended period of economic disruption could impact our access to additional sources of liquidity.

Maintaining an investment grade credit rating is an important element of International Paper's financing strategy. At December 31, 2022, the Company held long-term credit ratings of BBB (stable outlook) and Baa2 (stable outlook) by S&P and Moody's, respectively.

Contractual obligations for future payments under existing debt and lease commitments and purchase obligations at December 31, 2022, were as follows:

<i>In millions</i>	2023	2024	2025	2026	2027	Thereafter
Debt maturities (a)	\$ 763	\$ 148	\$ 191	\$ 72	\$ 298	4,107
Operating lease obligations	157	113	75	48	30	36
Purchase obligations (b)	2,504	818	471	360	285	1,651
Total (c)	\$ 3,424	\$ 1,079	\$ 737	\$ 480	\$ 613	5,794

(a) *Includes financing lease obligations.*

(b) *Includes \$4.0 billion relating to fiber supply agreements.*

(c) *Not included in the above table due to the uncertainty of the amount and timing of the payment are unrecognized tax benefits of approximately \$169 million. Also not included in the above table is \$95 million of Deemed Repatriation Transition Tax associated with the 2017 Tax Cuts and Jobs Act which will be settled from 2023 - 2026. Additionally, the deferred tax liability of \$485 million related to the Temple-Inland timber monetization is not included in the table above. It will be settled with the maturity of the notes in 2027.*

We consider the undistributed earnings of our foreign subsidiaries as of December 31, 2022, to be permanently reinvested and, accordingly, no U.S. income taxes have been provided thereon (see [Note 13 Income Taxes](#) on pages 69 through 71 of [Item 8. Financial Statements and Supplementary Data](#)). We do not anticipate the need to repatriate funds to the United States to satisfy domestic liquidity needs arising in the ordinary course of business, including liquidity needs associated with our domestic debt service requirements.

Pension Obligations and Funding

At December 31, 2022, the projected benefit obligation for the Company's U.S. defined benefit plans determined under U.S. GAAP was approximately \$29 million lower than the fair value of plan assets, excluding non-U.S. plans. Approximately \$297 million of this amount relates to plans that are subject to minimum funding requirements. Under current IRS funding rules, the calculation of minimum

funding requirements differs from the calculation of the present value of plan benefits (the "projected benefit obligation") for accounting purposes. In December 2008, the Worker, Retiree and Employer Recovery Act of 2008 ("WERA") was passed by the U.S. Congress which provided for pension funding relief and technical corrections. Funding contributions depend on the funding method selected by the Company, and the timing of its implementation, as well as on actual demographic data and the targeted funding level. The Company continually reassesses the amount and timing of any discretionary contributions and elected not to make any voluntary contributions in 2020, 2021 or 2022. At this time, we do not expect to have any required contributions to our plans in 2023, although the Company may elect to make future voluntary contributions. The timing and amount of future contributions, which could be material, will depend on a number of factors, including the actual earnings and changes in values of plan assets and changes in interest rates.

CRITICAL ACCOUNTING POLICIES AND SIGNIFICANT ACCOUNTING ESTIMATES

The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires International Paper to establish accounting policies and to make estimates that affect both the amounts and timing of the recording of assets, liabilities, revenues and expenses. Some of these estimates require subjective judgments about matters that are inherently uncertain.

Accounting policies whose application has had or is reasonably likely to have a material impact on the reported results of operations and financial position of International Paper, and that can require a significant level of estimation or uncertainty by management that affect their application, include the accounting for contingencies, impairment or disposal of long-lived assets and goodwill, pensions and income taxes. The Company has discussed the selection of critical accounting policies and the effect of significant estimates with the Audit and Finance Committee of the Company's Board of Directors and with its independent registered public accounting firm.

CONTINGENT LIABILITIES

Accruals for contingent liabilities, including personal injury, product liability, environmental, asbestos and other legal matters, are recorded when it is probable that a liability has been incurred or an asset impaired and the amount of the loss can be reasonably estimated. Liabilities accrued for legal matters require judgments regarding projected outcomes and range of loss based on historical litigation and settlement experience and recommendations of legal counsel.

and, if applicable, other experts. Liabilities for environmental matters require evaluations of relevant environmental regulations and estimates of future remediation alternatives and costs. The Company estimated the probable liability associated with these environmental matters to be approximately \$243 million (\$251 million undiscounted) in the aggregate as of December 31, 2022 and \$182 million (\$191 million undiscounted) in the aggregate as of December 31, 2021. Liabilities for asbestos-related matters require reviews of recent and historical claims data. The Company's total recorded liability with respect to pending and future asbestos-related claims was \$105 million and \$103 million, net of estimated insurance recoveries, as of December 31, 2022 and 2021, respectively. The Company utilizes its in-house legal counsel and environmental experts to develop estimates of its legal, environmental and asbestos obligations, supplemented as needed by third-party specialists to analyze its most complex contingent liabilities.

We calculate our workers' compensation reserves based on estimated actuarially calculated development factors. The workers' compensation reserves are reviewed at least quarterly to determine the adequacy of the accruals and related financial statement disclosure. The Company's total recorded workers' compensation reserve was \$136 million and \$159 million as of December 31, 2022 and 2021, respectively. While we believe that our assumptions are appropriate, the ultimate settlement of workers' compensation reserves may differ significantly from amounts we have accrued in our consolidated financial statements.

IMPAIRMENT OF LONG-LIVED ASSETS AND GOODWILL

Long-lived assets are reviewed for impairment upon the occurrence of events or changes in circumstances that indicate that the carrying value of the assets may not be recoverable. A recoverability test is performed by comparing the undiscounted cash flows to carrying value of the assets. If the carrying amount is less than the undiscounted cash flows, the fair value of the assets is compared to the carrying value to determine if they are impaired. An impairment of a long-lived asset exists when the asset's carrying amount exceeds its fair value.

We perform an annual goodwill impairment as of October 1. Additionally, interim assessments of possible impairments of goodwill are also made when events or changes in circumstances indicate that the carrying value of the asset may not be recoverable through future operations. A goodwill impairment exists when the carrying amount of goodwill exceeds its fair value.

The amount and timing of goodwill and long-lived asset impairment charges based on these assessments requires the estimation of future cash flows or the fair market value of the related assets based on management's best estimates of certain key factors, including future selling prices and volumes, operating, raw material, energy and freight costs, various other projected operating economic factors and other intended uses of the assets.

ASU 2011-08, "Intangibles - Goodwill and Other," allows entities testing goodwill for impairment the option of performing a qualitative assessment before performing the quantitative goodwill impairment test. If a qualitative assessment is performed, an entity is not required to perform the quantitative goodwill impairment test unless the entity determines that, based on that qualitative assessment, it is more likely than not that its fair value is less than its carrying value. The Company performed its annual testing of its reporting units for possible goodwill impairments by applying the qualitative assessment to its North America Industrial Packaging reporting unit and the quantitative goodwill impairment test to its EMEA Industrial Packaging reporting unit as of October 1, 2022.

For the current year evaluation, the Company assessed various assumptions, events and circumstances that would have affected the estimated fair value of the North America Industrial Packaging reporting unit under the qualitative assessment and the results of the qualitative assessments indicated that it was not more likely than not that the fair value of the reporting unit was less than its carrying value. Our most recent quantitative goodwill impairment test for our NA IPG reporting unit was performed as part of our 2020 annual goodwill impairment test. That quantitative goodwill impairment test indicated that the fair value of the NA IPG reporting unit exceeded the carrying amount by approximately 100%.

The Company also performed the quantitative goodwill impairment test which included comparing the carrying amount of the EMEA Industrial Packaging reporting unit to its estimated fair value. The estimated fair value of the reporting unit was calculated using a weighted approach based on discounted future cash flows, market multiples and transaction multiples. The determination of fair value using the discounted cash flow approach requires management to make significant estimates and assumptions related to forecasts of future revenues, operating profit margins, and discount rates. The determination of fair value using market multiples and transaction multiples requires management to make significant assumptions related to revenue multiples and adjusted earnings before interest, taxes, depreciation, and amortization ("EBITDA") multiples.

The results of our quantitative goodwill impairment test indicated that the carrying amount exceeded the estimated fair value of the EMEA Industrial Packaging reporting unit and it was determined that all of the goodwill in the reporting unit, totaling \$76 million, was impaired. The decline in the fair value of EMEA Industrial Packaging and resulting impairment charge was due to the impacts of certain macroeconomic conditions, including the impacts from inflation and the geopolitical environment to the reporting unit.

Due to the macroeconomic factors noted above, we also performed the long-lived asset impairment test for asset groups that represent the EMEA Industrial Packaging reporting unit prior to the goodwill impairment test and the respective assets groups were determined not to be impaired.

OTHER-THAN-TEMPORARY IMPAIRMENT

The Company evaluates our investment in the Ilim joint venture for other-than-temporary impairment (OTTI) when circumstances indicate the investment may be impaired. When a decline in fair value is deemed to be an OTTI, an impairment is recognized to the extent that the fair value is less than the carrying value of the investment. We consider various factors in determining whether a loss in value of an investment is other than temporary including: the length of time and the extent to which the fair value has been below cost, the financial condition of Ilim joint venture, and our intent and ability to retain the investment for a period of time sufficient to allow for recovery of value. Management makes certain judgments and estimates in its assessment including but not limited to: identifying if circumstances indicate a decline in value is other than temporary, expectations about operations, as well as industry, financial, regulatory and market factors. During the fourth quarter of 2022, the Company received a binding third-party offer to purchase our interest in the Ilim joint venture which was then submitted to our joint venture partners under the preemption provisions of the Ilim shareholders' agreement. The third-party offer resulted in an implied fair value that was less than our investment carrying value. This decrease in fair value below carrying value was not considered to be a temporary decline in value. As such, the Company recorded a \$533 million impairment in the fourth quarter of 2022 based on the agreed selling price for our 50% interest. The impairment charge included recognition of \$375 million of foreign currency cumulative translation adjustment loss. The timing by which the sale of our investment will be completed is dependent on obtaining required regulatory approvals. In the meantime, we could recognize additional OTTI charges as the carrying value of our investment

fluctuates relative to the approximate \$500 million implied fair value, through additional equity earnings and foreign currency translation.

PENSION BENEFIT OBLIGATIONS

The charges recorded for pension benefit obligations are determined annually in conjunction with International Paper's consulting actuary, and are dependent upon various assumptions including the expected long-term rate of return on plan assets, discount rates, projected future compensation increases and mortality rates.

The calculations of pension obligations and expenses require decisions about a number of key assumptions that can significantly affect liability and expense amounts, including the expected long-term rate of return on plan assets and the discount rate used to calculate plan liabilities.

Benefit obligations and fair values of plan assets as of December 31, 2022, for International Paper's pension plan were as follows:

<i>In millions</i>	Benefit Obligation	Fair Value of Plan Assets
U.S. qualified pension	\$ 8,548	\$ 8,845
U.S. nonqualified pension	268	—
Non-U.S. pension	54	18

The table below shows the discount rate used by International Paper to calculate U.S. pension obligations for the years shown:

	2022	2021	2020
Discount rate	5.40 %	2.90 %	2.60 %

International Paper determines these actuarial assumptions, after consultation with our actuaries, on December 31 of each year or more frequently if required, to calculate liability information as of that date and pension expense for the following year. The expected long-term rate of return on plan assets is based on projected rates of return for current asset classes in the plan's investment portfolio. The discount rate assumption was determined based on a hypothetical settlement portfolio selected from a universe of high quality corporate bonds.

The weighted average expected long-term rate of return on U.S. pension plan assets used to determine net periodic cost for the year ended December 31, 2022 was 6.00%.

Increasing (decreasing) the expected long-term rate of return on U.S. plan assets by an additional 0.25% would decrease (increase) 2023 pension expense by approximately \$20 million, while a (decrease)

increase of 0.25% in the discount rate would (increase) decrease pension expense by approximately \$15 million.

Actual rates of return earned on U.S. pension plan assets for each of the last 10 years were:

Year	Return	Year	Return
2022	(22.0)%	2017	19.3 %
2021	7.7 %	2016	7.1 %
2020	24.7 %	2015	1.3 %
2019	23.9 %	2014	6.4 %
2018	(3.0)%	2013	14.1 %

The 2013 and 2014 returns above represent weighted averages of International Paper and Temple-Inland asset returns. International Paper and Temple-Inland assets were combined in October 2014. The annualized time-weighted rate of return earned on U.S. pension plan assets was 4.7% and 7.1% for the past five and ten years, respectively.

ASC 715, "Compensation – Retirement Benefits," provides for delayed recognition of actuarial gains and losses, including amounts arising from changes in the estimated projected plan benefit obligation due to changes in the assumed discount rate, differences between the actual and expected return on plan assets, and other assumption changes. These net gains and losses are recognized in pension expense prospectively over a period that approximates the average remaining service period of active employees expected to receive benefits under the plans to the extent that they are not offset by gains and losses in subsequent years.

Net periodic pension plan expenses, calculated for all of International Paper's plans, were as follows:

<i>In millions</i>	2022	2021	2020	2019	2018
Pension (income) expense					
U.S. plans	\$ (116)	\$ (112)	\$ 32	\$ 93	\$ 632
Non-U.S. plans	5	4	5	6	4
Net (income) expense	\$ (111)	\$ (108)	\$ 37	\$ 99	\$ 636

The increase in 2022 pension income primarily reflects lower service cost, lower actuarial loss, and lower asset returns, slightly offset by higher interest cost.

Assuming that discount rates, expected long-term returns on plan assets and rates of future compensation increases remain the same as of December 31, 2022, projected future net periodic pension plan expense (income) would be as follows:

In millions	2024	2023
Pension expense (income)		
U.S. plans	\$ 38	\$ 102
Non-U.S. plans	5	5
Net (income) expense	\$ 43	\$ 107

The Company estimates that it will record net pension expense of approximately \$102 million for its U.S. defined benefit plans in 2023, compared to income of \$116 million in 2022.

The market value of plan assets for International Paper's U.S. qualified pension plan at December 31, 2022 totaled approximately \$8.8 billion, consisting of approximately 16% equity securities, 67% debt securities, 9% real estate funds and 8% other assets. The Company's funding policy for its qualified pension plans is to contribute amounts sufficient to meet legal funding requirements, plus any additional amounts that the Company may determine to be appropriate considering the funded status of the plan, tax deductibility, the cash flows generated by the Company, and other factors. The Company continually reassesses the amount and timing of any discretionary contributions and could elect to make voluntary contributions in the future. There were no required contributions to the U.S. qualified plan in 2022. The nonqualified defined benefit plans are funded to the extent of benefit payments, which totaled \$29 million for the year ended December 31, 2022.

INCOME TAXES

International Paper records its global tax provision based on the respective tax rules and regulations for the jurisdictions in which it operates. Where the Company believes that a tax position is supportable for income tax purposes, the item is included in its income tax returns. Where treatment of a position is uncertain, liabilities are recorded based upon the Company's evaluation of the "more likely than not" outcome considering technical merits of the position based on specific tax regulations and facts of each matter. Changes to recorded liabilities are only made when an identifiable event occurs that changes the likely outcome, such as settlement with the relevant tax authority, the expiration of statutes of limitation for the subject tax year, change in tax laws, or recent court cases that are relevant to the matter. Accrued interest related to these uncertain tax positions is recorded in our consolidated statement of operations in interest expense, net.

Valuation allowances are recorded to reduce deferred tax assets when it is more likely than not that a tax benefit will not be realized. Significant judgment is required in assessing the need for and magnitude of appropriate valuation allowances against deferred tax

assets. This assessment is completed by tax jurisdiction and relies on both positive and negative evidence available, with significant weight placed on recent financial results. Cumulative reported pre-tax income is considered objectively verifiable positive evidence of our ability to generate positive pre-tax income in the future. In accordance with GAAP, when there is a recent history of pre-tax losses, there is little or no weight placed on forecasts for purposes of assessing the recoverability of our deferred tax assets. When necessary, we use systematic and logical methods to estimate when deferred tax liabilities will reverse and generate taxable income and when deferred tax assets will reverse and generate tax deductions. Assumptions, judgment, and the use of estimates are required when scheduling the reversal of deferred tax assets and liabilities, and the exercise is inherently complex and subjective. The realization of these assets is dependent on generating future taxable income, as well as successful implementation of various tax planning strategies. The Company's valuation allowance was \$677 million and \$708 million at December 31, 2022 and 2021, respectively.

While International Paper believes that these judgments and estimates are appropriate and reasonable under the circumstances, actual resolution of these matters may differ from recorded estimated amounts.

LEGAL PROCEEDINGS

Information concerning the Company's environmental and other legal proceedings is set forth in [Note 14 Commitments and Contingent Liabilities](#) on pages 71 through 75 of [Item 8. Financial Statements and Supplementary Data](#). The Company is not subject to any administrative or judicial proceeding arising under any Federal, State or local provisions that have been enacted or adopted regulating the discharge of materials into the environment or primarily for the purpose of protecting the environment that is likely to result in monetary sanctions of \$1 million or more.

RECENT ACCOUNTING DEVELOPMENTS

See [Note 2 Recent Accounting Developments](#) on page 57 of [Item 8. Financial Statements and Supplementary Data](#) for a discussion of new accounting pronouncements.

EFFECT OF INFLATION

Inflationary increases in certain input costs, such as energy, wood, recycled fiber, freight and chemical costs, had an adverse impact on the Company's operating results in 2021 and 2022, but had a minimal impact in 2020. We expect that inflationary pressures will continue to adversely impact our operating results

in 2023. The effects of inflation have been more significant in recent years due to general inflationary conditions, including labor market conditions, economic activity, consumer behavior, supply shortages and disruptions. Sales prices and volumes are primarily influenced by economic supply and demand factors in specific markets and by exchange rate fluctuations but are also currently being impacted by the current inflationary environment.

FOREIGN CURRENCY EFFECTS

International Paper has operations in a number of countries. Its operations in those countries also export to, and compete with imports from other regions. As such, currency movements can have a number of direct and indirect impacts on the Company's financial statements. Direct impacts include the translation of international operations' local currency financial statements into U.S. dollars and the remeasurement impact associated with non-functional currency financial assets and liabilities. Indirect impacts include the change in competitiveness of imports into, and exports out of, the United States (and the impact on local currency pricing of products that are traded internationally). In general, a weaker U.S. dollar and stronger local currency is beneficial to International Paper. The currency that has the most impact is the Euro.

MARKET RISK

We use financial instruments, including fixed and variable rate debt, to finance operations, for capital spending programs and for general corporate purposes. Additionally, financial instruments, including various derivative contracts, are used to hedge exposures to interest rate, commodity and foreign currency risks. We do not use financial instruments for trading purposes. Information related to International Paper's debt obligations is included in [Note 16 Debt and Lines of Credit](#) on pages 76 through 78 of [Item 8. Financial Statements and Supplementary Data](#). A discussion of derivatives and hedging activities is included in [Note 17 Derivatives and Hedging Activities](#) on pages 78 through 81 of [Item 8. Financial Statements and Supplementary Data](#).

The fair value of our debt and financial instruments varies due to changes in market interest and foreign currency rates and commodity prices since the inception of the related instruments. We assess this market risk utilizing a sensitivity analysis. The sensitivity analysis measures the potential loss in earnings, fair values and cash flows based on a hypothetical 10% change (increase and decrease) in interest and currency rates and commodity prices.

INTEREST RATE RISK

Our exposure to market risk for changes in interest rates relates primarily to short- and long-term debt obligations and investments in marketable securities. We invest in investment-grade securities of financial institutions and money market mutual funds with a minimum rating of AAA and limit exposure to any one issuer or fund. Our investments in marketable securities at December 31, 2022 and 2021 are stated at cost, which approximates market due to their short-term nature. Our interest rate risk exposure related to these investments was not material.

We issue fixed and floating rate debt in a proportion that management deems appropriate based on current and projected market conditions. Derivative instruments, such as interest rate swaps, may be used to execute this strategy. At December 31, 2022 and 2021, the fair value of the net liability of financial instruments with exposure to interest rate risk was approximately \$4.3 billion and \$6.7 billion, respectively. The potential increase in fair value resulting from a 10% adverse shift in quoted interest rates would have been approximately \$328 million and \$304 million at December 31, 2022 and 2021, respectively.

COMMODITY PRICE RISK

The objective of our commodity exposure management is to minimize volatility in earnings due to large fluctuations in the price of commodities. Commodity swap or forward purchase contracts may be used to manage risks associated with market fluctuations in energy prices. At December 31, 2022 and 2021, the net fair value of these contracts was \$20 million asset and \$10 million asset. The potential loss in fair value from a 10% adverse change in quoted commodity prices for these contracts would have been approximately \$3 million and \$2 million at December 31, 2022 and 2021, respectively.

FOREIGN CURRENCY RISK

International Paper transacts business in many currencies and is also subject to currency exchange rate risk through investments and businesses owned and operated in foreign countries. Our objective in managing the associated foreign currency risks is to minimize the effect of adverse exchange rate fluctuations on our after-tax cash flows. We address these risks on a limited basis by entering into cross-currency interest rate swaps, or foreign exchange contracts.

At December 31, 2022 and 2021, the net fair value of financial instruments with exposure to foreign currency risk was immaterial. The potential loss in fair value for such financial instruments from a 10% adverse change in quoted foreign currency exchange rates was also immaterial.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

See the preceding discussion and [Note 17 Derivatives and Hedging Activities](#) on pages 78 through 81 of [Item 8. Financial Statements and Supplementary Data](#).

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

REPORT OF MANAGEMENT ON:

Financial Statements

The management of International Paper Company is responsible for the preparation of the consolidated financial statements in this annual report. The consolidated financial statements have been prepared using accounting principles generally accepted in the United States of America considered appropriate in the circumstances to present fairly the Company's consolidated financial position, results of operations and cash flows on a consistent basis. Management has also prepared the other information in this annual report and is responsible for its accuracy and consistency with the consolidated financial statements.

As can be expected in a complex and dynamic business environment, some financial statement amounts are based on estimates and judgments. Even though estimates and judgments are used, measures have been taken to provide reasonable assurance of the integrity and reliability of the financial information contained in this annual report. We have formed a Disclosure Committee to oversee this process.

The accompanying consolidated financial statements have been audited by the independent registered public accounting firm Deloitte & Touche LLP (PCAOB ID No. 34). During its audits, Deloitte & Touche LLP was given unrestricted access to all financial records and related data, including minutes of all meetings of stockholders and the board of directors and all committees of the board. Management believes that all representations made to the independent auditors during their audits were valid and appropriate.

Internal Control Over Financial Reporting

The management of International Paper Company is also responsible for establishing and maintaining adequate internal control over financial reporting (as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act). Internal control over financial reporting is the process designed by, or under the supervision of, our principal executive officer and principal financial officer, and effected by our Board of Directors, management and other personnel to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes. All internal control systems have inherent limitations, including the possibility of circumvention and overriding of controls,

and therefore can provide only reasonable assurance of achieving the designed control objectives. The Company's internal control system is supported by written policies and procedures, contains self-monitoring mechanisms, and is audited by the internal audit function. Appropriate actions are taken by management to correct deficiencies as they are identified. Our procedures for financial reporting include the active involvement of senior management, our Audit and Finance Committee and our staff of highly qualified financial and legal professionals.

The Company has assessed the effectiveness of its internal control over financial reporting as of December 31, 2022. In making this assessment, it used the criteria described in "Internal Control – Integrated Framework (2013)" issued by the Committee of Sponsoring Organizations of the Treadway Commission ("COSO"). Based on this assessment, management believes that, as of December 31, 2022, the Company's internal control over financial reporting was effective.

The Company's independent registered public accounting firm, Deloitte & Touche LLP, has issued its report on the effectiveness of the Company's internal control over financial reporting. The report appears on pages 45 through 47.

Internal Control Environment And Board Of Directors Oversight

Our internal control environment includes an enterprise-wide attitude of integrity and control consciousness that establishes a positive "tone at the top." This is exemplified by our ethics program that includes long-standing principles and policies on ethical business conduct that require employees to maintain the highest ethical and legal standards in the conduct of International Paper business, which have been distributed to all employees; a toll-free telephone helpline whereby any employee may anonymously report suspected violations of law or International Paper's policy; and an office of ethics and business practice. The internal control system further includes careful selection and training of supervisory and management personnel, appropriate delegation of authority and division of responsibility, dissemination of accounting and business policies throughout International Paper, and an extensive program of internal audits with management follow-up.

The Board of Directors, assisted by the Audit and Finance Committee ("Committee"), monitors the integrity of the Company's financial statements and financial reporting procedures, the performance of the Company's internal audit function and independent auditors, and other matters set forth in its charter. The

Committee, which consists of independent directors, meets regularly with representatives of management, and with the independent auditors and the Internal Auditor, with and without management representatives in attendance, to review their activities. The Committee's Charter takes into account the New York Stock Exchange rules relating to Audit Committees and the SEC rules and regulations promulgated as a result of the Sarbanes-Oxley Act of 2002. The Committee has reviewed and discussed the consolidated financial statements for the year ended December 31, 2022, including critical accounting policies and significant management judgments, with management and the independent auditors. The Committee's report recommending the inclusion of such financial statements in this Annual Report on Form 10-K will be set forth in our Proxy Statement.



MARK S. SUTTON
CHAIRMAN AND CHIEF EXECUTIVE OFFICER



TIMOTHY S. NICHOLLS
SENIOR VICE PRESIDENT AND CHIEF FINANCIAL OFFICER

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of International Paper Company:

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of International Paper Company and subsidiaries (the "Company") as of December 31, 2022 and 2021, the related consolidated statements of operations, comprehensive income (loss), changes in equity, and cash flows for each of the three years in the period ended December 31, 2022, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2022 and 2021, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2022, in conformity with accounting principles generally accepted in the United States of America.

We did not audit the financial statements of Ilim S.A. as of and for the year ended December 31, 2022. The Company's investment in Ilim S.A. is accounted for by use of the equity method and is presented as held-for-sale and within discontinued operations, as disclosed in Note 11. The accompanying financial statements of the Company include its equity investment in Ilim S.A. of \$133 million as of December 31, 2022, and its equity earnings in Ilim S.A. of \$296 million for the year ended December 31, 2022. The financial statements of Ilim S.A. were audited by other auditors whose report has been furnished to us, and our opinion, insofar as it relates to the amounts included for Ilim S.A. as of and for the year ended December 31, 2022, is based solely on the report of the other auditors.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2022, based on criteria established in Internal Control — Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 17, 2023, expressed an unqualified opinion on the Company's internal control over financial reporting.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial

statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matters

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the Audit and Finance Committee and that (1) relates to an account or disclosure that is material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Retirement Plans — Plan Assets — Refer to Note 19 to the financial statements

Critical Audit Matter Description

As of December 31, 2022, the Company's Pension Plans held approximately \$2.8 billion in investments whose reported value is determined based on net asset value ("NAV"). The strategic asset allocation policy prescribed by the Company's Pension Plan includes permissible investments in certain hedge funds, private equity funds, and real estate funds whose reported values are determined based on the estimated NAV of each investment.

These NAVs are generally determined by the Pension Plan's third-party administrators or fund managers and are subject to review and oversight by management of the Company and its third-party investment advisors.

Given a lack of a readily determinable value of these investments and the subjective nature of the valuation methodologies and unobservable inputs used in these methodologies, auditing the NAV associated with these investments requires a high degree of auditor judgment and an increased extent of effort, including the need to involve professionals in our firm having expertise in alternative investments.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the determination of NAV associated with the Company's Pension Plan's investments in hedge funds, private equity funds, and real estate funds included the following, among others:

- We tested the effectiveness of controls over the Company's determination and evaluation of NAV, including those related to the reliability of NAVs reported by third-party administrators and fund managers.
- We inquired of management and the investment advisors regarding changes to the investment portfolio and investment strategies.
- We obtained a confirmation from the third-party custodian as of December 31, 2022 of all individual investments held in trust for the Pension Plan to confirm the existence of each individual asset held in trust.
- For each selected investment fund with a fiscal year end of December 31, we performed a retrospective review in which we compared the estimated fair value recorded by the Company in the December 31, 2021 financial statements, to the actual fair value of the fund (using the per-share NAV disclosed in the fund's subsequently issued audited financial statements), to evaluate the appropriateness of management's estimation process.
- With the assistance of professionals in our firm having expertise in alternative investments, we rolled forward the valuation from the selected funds' most recently audited financial statements to December 31, 2022. This roll forward procedure included

consideration of the Company's transactions in the fund during the period, as well as an estimate of the funds' returns based on an appropriate, independently obtained benchmark or index. We then compared our independent fund valuation estimate to the December 31, 2022, balance recorded by the Company. For certain selected funds, our roll forward procedures included alternative procedures, such as inspecting trust statements for observable transactions near year-end to compare to the estimated fair value.

- For certain investments, we inquired of management to understand year-over-year changes in the fund manager's estimate of NAV and compared the fund's return on investment to other available qualitative and quantitative information.

/s/ Deloitte & Touche LLP

Memphis, Tennessee
February 17, 2023

We have served as the Company's auditor since 2002.

[REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM](#)

To the shareholders and the Board of Directors of International Paper Company:

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of International Paper Company and subsidiaries (the "Company") as of December 31, 2022, based on criteria established in Internal Control — Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2022, based on criteria established in Internal Control — Integrated Framework (2013) issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended December 31, 2022, of the Company and our report dated February 17, 2023, expressed an unqualified opinion on those financial statements.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Report of Management on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed 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. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte & Touche LLP

Memphis, Tennessee
February 17, 2023

CONSOLIDATED STATEMENT OF OPERATIONS

<i>In millions, except per share amounts, for the years ended December 31</i>	2022	2021	2020
NET SALES	\$ 21,161	\$ 19,363	\$ 17,565
COSTS AND EXPENSES			
Cost of products sold	15,143	13,832	12,339
Selling and administrative expenses	1,293	1,385	1,353
Depreciation, amortization and cost of timber harvested	1,040	1,097	1,091
Distribution expenses	1,783	1,444	1,287
Taxes other than payroll and income taxes	148	139	136
Restructuring and other charges, net	89	509	195
Net (gains) losses on sales and impairments of businesses	76	(7)	465
Net (gains) losses on sales of equity method investments	10	(204)	(35)
Net (gains) losses on mark to market investments	(65)	32	—
Interest expense, net	325	337	446
Non-operating pension (income) expense	(192)	(200)	(41)
EARNINGS (LOSS) FROM CONTINUING OPERATIONS BEFORE INCOME TAXES AND EQUITY EARNINGS (LOSSES)	1,511	999	329
Income tax provision (benefit)	(236)	188	176
Equity earnings (loss), net of taxes	(6)	2	29
EARNINGS (LOSS) FROM CONTINUING OPERATIONS	1,741	813	182
Discontinued operations, net of taxes	(237)	941	300
NET EARNINGS (LOSS)	1,504	1,754	482
Less: Net earnings (loss) attributable to noncontrolling interests	—	2	—
NET EARNINGS (LOSS) ATTRIBUTABLE TO INTERNATIONAL PAPER COMPANY	\$ 1,504	\$ 1,752	\$ 482
BASIC EARNINGS (LOSS) PER SHARE ATTRIBUTABLE TO INTERNATIONAL PAPER COMPANY COMMON SHAREHOLDERS			
Earnings (loss) from continuing operations	\$ 4.79	\$ 2.08	\$ 0.46
Discontinued operations, net of taxes	(0.65)	2.42	0.77
Net earnings (loss)	\$ 4.14	\$ 4.50	\$ 1.23
DILUTED EARNINGS (LOSS) PER SHARE ATTRIBUTABLE TO INTERNATIONAL PAPER COMPANY COMMON SHAREHOLDERS			
Earnings (loss) from continuing operations	\$ 4.74	\$ 2.07	\$ 0.46
Discontinued operations, net of taxes	(0.64)	2.40	0.76
Net earnings (loss)	\$ 4.10	\$ 4.47	\$ 1.22

The accompanying notes are an integral part of these financial statements.

CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME (LOSS)

In millions for the years ended December 31

	2022	2021	2020
NET EARNINGS (LOSS)	\$ 1,504	\$ 1,754	\$ 482
OTHER COMPREHENSIVE INCOME (LOSS), NET OF TAX			
Amortization of pension and postretirement prior service costs and net loss:			
U.S. plans (less tax of \$ 28 , \$ 41 and \$ 56)	85	124	170
Non-U.S. plans (less tax of \$ 0 , \$ 0 and \$ 0)	1	1	—
Pension and postretirement liability adjustments:			
U.S. plans (less tax of \$(109), \$ 235 and \$ 76)	(327)	706	229
Non-U.S. plans (less tax of \$ 1 , \$ 1 and \$(1))	8	7	(2)
Change in cumulative foreign currency translation adjustment (less tax of \$ 0 , \$ 0 and \$ 1)	(28)	69	8
Net gains/losses on cash flow hedging derivatives:			
Net gains (losses) arising during the period (less tax of \$ 0 , \$ 1 and \$(15))	—	3	(34)
Reclassification adjustment for (gains) losses included in net earnings (less tax of \$ 1 , \$(2) and \$ 13)	2	(9)	26
TOTAL OTHER COMPREHENSIVE INCOME (LOSS), NET OF TAX	(259)	901	397
Comprehensive Income (Loss)	1,245	2,655	879
Net (Earnings) Loss Attributable to Noncontrolling Interests	—	(2)	—
Other Comprehensive (Income) Loss Attributable to Noncontrolling Interests	—	2	—
COMPREHENSIVE INCOME (LOSS) ATTRIBUTABLE TO INTERNATIONAL PAPER COMPANY	\$ 1,245	\$ 2,655	\$ 879

The accompanying notes are an integral part of these financial statements.

CONSOLIDATED BALANCE SHEET

In millions, except per share amounts, at December 31

	2022	2021
ASSETS		
Current Assets		
Cash and temporary investments	\$ 804	\$ 1,295
Accounts and notes receivable (less allowances of \$ 31 in 2022 and \$ 34 in 2021)	3,284	3,232
Contract assets	481	378
Inventories	1,942	1,814
Current investments	—	245
Assets held for sale	133	—
Other current assets	126	132
Total Current Assets	6,770	7,096
Plants, Properties and Equipment, net	10,431	10,441
Long-Term Investments	186	194
Long-Term Financial Assets of Variable Interest Entities (Note 15)	2,294	2,275
Goodwill	3,041	3,130
Overfunded Pension Plan Assets	297	595
Right of Use Assets	424	365
Long-Term Assets Held for Sale	—	557
Deferred Charges and Other Assets	497	590
TOTAL ASSETS	\$ 23,940	\$ 25,243
LIABILITIES AND EQUITY		
Current Liabilities		
Notes payable and current maturities of long-term debt	\$ 763	\$ 196
Accounts payable	2,708	2,606
Accrued payroll and benefits	355	440
Other current liabilities	1,174	902
Total Current Liabilities	5,000	4,144
Long-Term Debt	4,816	5,383
Long-Term Nonrecourse Financial Liabilities of Variable Interest Entities (Note 15)	2,106	2,099
Deferred Income Taxes	1,732	2,618
Underfunded Pension Benefit Obligation	281	377
Postretirement and Postemployment Benefit Obligation	150	205
Long-Term Lease Obligations	283	236
Other Liabilities	1,075	1,099
Commitments and Contingent Liabilities (Note 14)		
Equity		
Common stock \$ 1 par value, 2022 - 448.9 shares and 2021 - 448.9 shares	449	449
Paid-in capital	4,725	4,668
Retained earnings	9,855	9,029
Accumulated other comprehensive loss	(1,925)	(1,666)
	13,104	12,480
Less: Common stock held in treasury, at cost, 2022 – 98.6 shares and 2021 – 70.4 shares	4,607	3,398
Total Equity	8,497	9,082
TOTAL LIABILITIES AND EQUITY	\$ 23,940	\$ 25,243

The accompanying notes are an integral part of these financial statements.

CONSOLIDATED STATEMENT OF CASH FLOWS

<i>In millions for the years ended December 31</i>	2022	2021	2020
OPERATING ACTIVITIES			
Net earnings (loss)	\$ 1,504	\$ 1,754	\$ 482
Depreciation, amortization, and cost of timber harvested	1,040	1,210	1,287
Deferred income tax provision (benefit), net	(773)	(291)	9
Restructuring and other charges, net	89	509	195
Periodic pension (income) expense, net	(116)	(112)	32
Net (gains) losses on mark to market investments	(65)	32	—
Net (gains) losses on sales and impairments of businesses	76	(358)	465
Net (gains) losses on sales and impairments of equity method investments	543	(205)	(35)
Net (gains) losses on sales of fixed assets	—	(86)	—
Equity method dividends received	204	159	162
Equity (earnings) losses, net	(291)	(313)	(77)
Other, net	108	157	219
Changes in current assets and liabilities			
Accounts and notes receivable	(59)	(596)	59
Contract assets	(103)	(49)	35
Inventories	(162)	(263)	35
Accounts payable and accrued liabilities	110	519	141
Interest payable	41	(32)	(55)
Other	28	(5)	109
CASH PROVIDED BY (USED FOR) OPERATING ACTIVITIES	2,174	2,030	3,063
INVESTMENT ACTIVITIES			
Invested in capital projects, net of insurance recoveries	(931)	(549)	(751)
Acquisitions, net of cash acquired	—	(80)	(65)
Proceeds from sales of equity method investments	—	908	500
Proceeds from sales of businesses, net of cash divested	—	827	40
Proceeds from exchange of equity securities	311	—	—
Proceeds from settlement of Variable Interest Entities	—	4,850	—
Proceeds from sale of fixed assets	13	101	8
Other	(1)	(3)	(1)
CASH PROVIDED BY (USED FOR) INVESTMENT ACTIVITIES	(608)	6,054	(269)
FINANCING ACTIVITIES			
Repurchases of common stock and payments of restricted stock tax withholding	(1,284)	(839)	(42)
Issuance of debt	1,011	1,512	583
Reduction of debt	(1,017)	(2,509)	(2,278)
Change in book overdrafts	1	65	35
Dividends paid	(673)	(780)	(806)
Reduction of Variable Interest Entity loans	—	(4,220)	—
Distribution to Sylvamo Corporation	—	(130)	—
Net debt tender premiums paid	(89)	(456)	(188)
Other	(3)	(18)	(4)
CASH PROVIDED BY (USED FOR) FINANCING ACTIVITIES	(2,054)	(7,375)	(2,700)
Cash Included in Assets Held for Sale	—	—	(2)
Effect of Exchange Rate Changes on Cash	(3)	(9)	(8)
Change in Cash and Temporary Investments	(491)	700	84
Cash and Temporary Investments			
Beginning of the period	1,295	595	511
End of the period	\$ 804	\$ 1,295	\$ 595

The accompanying notes are an integral part of these financial statements.

CONSOLIDATED STATEMENT OF CHANGES IN EQUITY

In millions	Common Stock		Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Common Stock		Total International Paper Shareholders' Equity	Noncontrolling Interests	Total Equity
	Issued	Paid-in Capital			Held In Treasury, At Cost	Total			
BALANCE, JANUARY 1, 2020	\$ 449	\$ 6,297	\$ 8,408	\$ (4,739)	\$ 2,702	\$ 7,713	\$ 5	\$ 7,718	
Adoption of ASU 2016-13 measurement of credit losses on financial instruments	—	—	(2)	—	—	(2)	—	(2)	
Issuance of stock for various plans, net	—	(8)	—	—	(96)	88	—	88	
Repurchase of stock	—	—	—	—	42	(42)	—	(42)	
Dividends (\$ 2.050 per share)	—	—	(818)	—	—	(818)	—	(818)	
Transactions of equity method investees	—	36	—	—	—	36	—	36	
Transactions with noncontrolling interest holders	—	—	—	—	—	—	9	9	
Comprehensive income (loss)	—	—	482	397	—	879	—	879	
BALANCE, DECEMBER 31, 2020	449	6,325	8,070	(4,342)	2,648	7,854	14	7,868	
Sylvamo Corporation spin-off	—	(1,729)	—	1,773	—	44	(1)	43	
Issuance of stock for various plans, net	—	54	—	—	(89)	143	—	143	
Repurchase of stock	—	—	—	—	839	(839)	—	(839)	
Dividends (\$ 2.000 per share)	—	—	(793)	—	—	(793)	—	(793)	
Transactions of equity method investees	—	18	—	—	—	18	—	18	
Divestiture of noncontrolling interests	—	—	—	—	—	—	(13)	(13)	
Comprehensive income (loss)	—	—	1,752	903	—	2,655	—	2,655	
BALANCE, DECEMBER 31, 2021	449	4,668	9,029	(1,666)	3,398	9,082	—	9,082	
Issuance of stock for various plans, net	—	57	—	—	(75)	132	—	132	
Repurchase of stock	—	—	—	—	1,284	(1,284)	—	(1,284)	
Dividends (\$ 1.850 per share)	—	—	(678)	—	—	(678)	—	(678)	
Comprehensive income (loss)	—	—	1,504	(259)	—	1,245	—	1,245	
BALANCE, DECEMBER 31, 2022	\$ 449	\$ 4,725	\$ 9,855	\$ (1,925)	\$ 4,607	\$ 8,497	— \$	8,497	

The accompanying notes are an integral part of these financial statements.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

NOTE 1 SUMMARY OF BUSINESS AND SIGNIFICANT ACCOUNTING POLICIES

NATURE OF BUSINESS

International Paper (the "Company") is a global producer of renewable fiber-based packaging and pulp products with primary markets and manufacturing operations in North America and Europe and additional markets and manufacturing operations in Latin America, North Africa and Asia. Substantially all of our businesses have experienced, and are likely to continue to experience, cycles relating to available industry capacity and general economic conditions.

FINANCIAL STATEMENTS

These consolidated financial statements have been prepared in conformity with accounting principles generally accepted in the United States that require the use of management's estimates. Actual results could differ from management's estimates.

Printing Papers Spinoff

On October 1, 2021, the Company completed the previously announced spin-off of its Printing Papers segment along with certain mixed-use coated paperboard and pulp businesses in North America, France and Russia into a standalone, publicly-traded company, Sylvamo Corporation ("Sylvamo"). The transaction was implemented through the distribution of shares of the standalone company to International Paper's shareholders (the "Distribution"). As a result of the Distribution, Sylvamo is an independent public company that trades on the New York Stock Exchange under the symbol "SLVM".

In addition to the spin-off of Sylvamo, the Company completed the sale of its Kwidzyn, Poland mill on August 6, 2021. All historical operating results of the Sylvamo businesses and Kwidzyn mill have been presented as Discontinued Operations, net of tax, in the consolidated statement of operations. See [Note 8 - Divestitures](#) for further details regarding the Sylvamo spin-off and discontinued operations.

Russia-Ukraine Conflict

The military conflict between Russia and Ukraine, including ongoing sanctions, actions by the Russian government, and associated domestic and global economic and geopolitical conditions, has adversely affected and may continue to adversely affect our Ilm joint venture and our businesses, financial condition, results of operations and cash flows. We recently

announced that we have reached an agreement to sell our equity interest in Ilm and have also received from the same purchaser an indication of interest to purchase our equity investment in Ilm Group, however, we cannot be certain if and when the completion of these sales may occur. Our ability to complete such sales is subject to various risks, including (i) purchasers' inability to obtain necessary regulatory approvals or to finance the purchase pursuant to the terms of the agreement, (ii) adverse actions by the Russian government, and (iii) new or expanded sanctions imposed by the U.S., the United Kingdom, or the European Union or its member countries. We are unable to predict the full impact that Russia's ongoing invasion of Ukraine, current or potential future sanctions, ongoing or potential disruptions resulting from the conflict, the changing regulatory environment in Russia, negative macroeconomic conditions arising from such conflict, supply chain disruptions, and geopolitical instability and shifts, may have on us or our ability to complete the sale of our interest in the Ilm joint venture.

DISCONTINUED OPERATIONS

A discontinued operation may include a component or a group of components of the Company's operations. A disposal of a component or a group of components is reported in discontinued operations if the disposal represents a strategic shift that has or will have a major effect on the Company's operations and financial results when the following occurs: (1) a component (or group of components) meets the criteria to be classified as held for sale; (2) the component or group of components is disposed of by sale; or (3) the component or group of components is disposed of other than by sale (for example, by abandonment or in a distribution to owners in a spin-off). For any component classified as held for sale or disposed of by sale or other than by sale, qualifying for presentation as a discontinued operation, the Company reports the results of operations of the discontinued operations (including any gain or loss recognized on the disposal or loss recognized on classification as held for sale of a discontinued operation), less applicable income taxes (benefit), as a separate component in the consolidated statement of operations for current and all prior periods presented. The Company also reports assets and liabilities associated with discontinued operations as separate line items on the consolidated balance sheet.

CONSOLIDATION

The consolidated financial statements include the accounts of International Paper and subsidiaries for which we have a controlling financial interest, including variable interest entities for which we are

the primary beneficiary. All significant intercompany balances and transactions are eliminated.

EQUITY METHOD INVESTMENTS

The equity method of accounting is applied for investments when the Company has significant influence over the investee's operations, or when the investee is structured with separate capital accounts. Our material equity method investments are described in [Note 11](#).

OTHER-THAN-TEMPORARY IMPAIRMENT

The Company evaluates our equity method investments for other-than-temporary impairment (OTTI) when circumstances indicate the investment may be impaired. When a decline in fair value is deemed to be an OTTI, an impairment is recognized to the extent that the fair value is less than the carrying value of the investment. We consider various factors in determining whether a loss in value of an investment is other than temporary including: the length of time and the extent to which the fair value has been below cost, the financial condition of the investee, and our intent and ability to retain the investment for a period of time sufficient to allow for recovery of value. Management makes certain judgments and estimates in its assessment including but not limited to: identifying if circumstances indicate a decline in value is other than temporary, expectations about operations, as well as industry, financial, regulatory and market factors.

BUSINESS COMBINATIONS

The Company allocates the total consideration of the assets acquired and liabilities assumed based on their estimated fair value as of the business combination date. In developing estimates of fair values for long-lived assets, including identifiable intangible assets, the Company utilizes a variety of inputs including forecasted cash flows, anticipated growth rates, discount rates, estimated replacement costs and depreciation and obsolescence factors. Determining the fair value for specifically identified intangible assets such as customer lists and developed technology involves judgment. We may refine our estimates and make adjustments to the assets acquired and liabilities assumed over a measurement period, not to exceed one year. Upon the conclusion of the measurement period or the final determination of the values of assets acquired and liabilities assumed, whichever comes first, any subsequent adjustments are charged to the consolidated statement of operations. Subsequent actual results of the underlying business activity supporting the specifically identified intangible assets could change, requiring us to record impairment

charges or adjust their economic lives in future periods. See [Note 7](#) for further details.

RESTRUCTURING LIABILITIES AND COSTS

For operations to be closed or restructured, a liability and related expense is recorded in the period when operations cease. For termination costs associated with employees covered by a written or substantive plan, a liability is recorded when it is probable that employees will be entitled to benefits and the amount can be reasonably estimated. For termination costs associated with employees not covered by a written and broadly communicated policy covering involuntary termination benefits (severance plan), a liability is recorded for costs to terminate employees (one-time termination benefits) when the termination plan has been approved and committed to by management, the employees to be terminated have been identified, the termination plan benefit terms are communicated, the employees identified in the plan have been notified and actions required to complete the plan indicate that it is unlikely that significant changes to the plan will be made or that the plan will be withdrawn. The timing and amount of an accrual is dependent upon the type of benefits granted, the timing of communication and other provisions that may be provided in the benefit plan. The accounting for each termination is evaluated individually. See [Note 6](#) for further details.

REVENUE RECOGNITION

Generally, the Company recognizes revenue on a point-in-time basis when the customer takes title to the goods and assumes the risks and rewards for the goods. For customized goods where the Company has a legally enforceable right to payment for the goods, the Company recognizes revenue over time, which generally is, as the goods are produced.

The Company's revenue is primarily derived from fixed consideration; however, we do have contract terms that give rise to variable consideration, primarily volume rebates, early payment discounts and other customer refunds. The Company estimates its volume rebates at the individual customer level based on the most likely amount method outlined in ASC 606. The Company estimates early payment discounts and other customer refunds based on the historical experience across the Company's portfolio of customers to record reductions in revenue that is consistent with the expected value method outlined in ASC 606. Management has concluded that these methods result in the best estimate of the consideration the Company will be entitled to from its customers.

The Company has elected to present all sales taxes on a net basis, account for shipping and handling activities as fulfillment activities, recognize the incremental costs of obtaining a contract as expense when incurred if the amortization period of the asset the Company would recognize is one year or less, and not record interest income or interest expense when the difference in timing of control or transfer and customer payment is one year or less. See [Note 3](#) for further details.

TEMPORARY INVESTMENTS

Temporary investments with an original maturity of three months or less and money market funds with greater than three month maturities but with the right to redeem without notice are treated as cash equivalents and are stated at cost, which approximates market value. See [Note 9](#) for further details.

INVENTORIES

Inventories are valued at the lower of cost or market value and include all costs directly associated with manufacturing products: materials, labor and manufacturing overhead. In the United States, costs of raw materials and finished pulp and paper products, are generally determined using the last-in, first-out method. Other inventories are valued using the first-in, first-out or average cost methods. See [Note 9](#) for further details.

LEASED ASSETS

Operating lease right of use (ROU) assets and liabilities are recognized at the commencement date of the lease based on the present value of lease payments over the lease term. The Company's leases may include options to extend or terminate the lease. These options to extend are included in the lease term when it is reasonably certain that we will exercise that option. Some leases have variable payments, however, because they are not based on an index or rate, they are not included in the ROU assets and liabilities. Variable payments for real estate leases primarily relate to common area maintenance, insurance, taxes and utilities. Variable payments for equipment, vehicles, and leases within supply agreements primarily relate to usage, repairs and maintenance. As the implicit rate is not readily determinable for most of the Company's leases, the Company applies a portfolio approach using an estimated incremental borrowing rate to determine the initial present value of lease payments over the lease terms on a collateralized basis over a similar term, which is based on market and company specific information. We use the unsecured borrowing rate and risk-adjust that rate to approximate a collateralized rate, and apply the rate based on the

currency of the lease, which is updated on a quarterly basis for measurement of new lease liabilities. Leases having a lease term of twelve months or less are not recorded on the balance sheet and the related lease expense is recognized on a straight-line basis over the term of the lease. In addition, the Company has applied the practical expedient to account for the lease and non-lease components as a single lease component for all of the Company's leases except for certain gas and chemical agreements. See [Note 10](#) for further details.

PLANTS, PROPERTIES AND EQUIPMENT

Plants, properties and equipment are stated at cost, less accumulated depreciation. Expenditures for betterments are capitalized, whereas normal repairs and maintenance are expensed as incurred. The units-of-production method of depreciation is used for pulp and paper mills, and the straight-line method is used for other plants and equipment. See [Note 9](#) for further details.

GOODWILL

Annual evaluation for possible goodwill impairment is performed as of the beginning of the fourth quarter of each year, with additional interim evaluation performed when management believes that it is more likely than not, that events or circumstances have occurred that would result in the impairment of a reporting unit's goodwill.

The Company has the option to evaluate goodwill for impairment by first performing a qualitative assessment of events and circumstances to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If, after assessing the totality of events or circumstances, the Company determines that it is not more likely than not that the fair value of a reporting unit is less than its carrying amounts, then the quantitative goodwill impairment test is not required to be performed. If the Company determines that it is more likely than not that the fair value of a reporting unit is less than its carrying amount, or if the Company does not elect the option to perform an initial qualitative assessment, the Company is required to perform the quantitative goodwill impairment test. In performing this evaluation, the Company estimates the fair value of its reporting unit using a weighted approach based on discounted future cash flows, market multiples and transaction multiples. The determination of fair value using the discounted cash flow approach requires management to make significant estimates and assumptions related to forecasts of future revenues, operating profit margins, and discount rates. The determination of fair value using market multiples and transaction multiples requires management to make significant

assumptions related to revenue multiples and adjusted earnings before interest, taxes, depreciation, and amortization ("EBITDA") multiples. For reporting units whose carrying amount is in excess of their estimated fair value, the reporting unit will record an impairment charge by the amount that the carrying amount exceeds the reporting unit's fair value, not to exceed the total amount of goodwill allocated to the reporting unit.

IMPAIRMENT OF LONG-LIVED ASSETS

Long-lived assets are reviewed for impairment upon the occurrence of events or changes in circumstances that indicate that the carrying value of the assets may not be recoverable. A recoverability test is performed by comparing the undiscounted cash flows to carrying value of the assets. The inputs related to the undiscounted cash flows requires judgments as to whether assets are held and used or held for sale, the weighting of operational alternatives being considered by management and estimates of the amount and timing of expected future cash flows from the use of the long-lived assets generated by their use. If the carrying amount is less than the undiscounted cash flows, the fair value of the assets is compared to the carrying value to determine if they are impaired. We estimate fair value using discounted cash flows and other valuation techniques as needed. Impaired assets are recorded at their estimated fair value.

INCOME TAXES

International Paper uses the asset and liability method of accounting for income taxes whereby deferred income taxes are recorded for the future tax consequences attributable to differences between the financial statement and tax bases of assets and liabilities. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. Deferred tax assets and liabilities are remeasured to reflect new tax rates in the periods rate changes are enacted.

International Paper records its global tax provision based on the respective tax rules and regulations for the jurisdictions in which it operates. Where the Company believes that a tax position is supportable for income tax purposes, the item is included in its income tax returns. Where treatment of a position is uncertain, liabilities are recorded based upon the Company's evaluation of the "more likely than not" outcome considering technical merits of the position based on specific tax regulations and facts of each matter. Changes to recorded liabilities are only made when an identifiable event occurs that changes the likely outcome, such as settlement with the relevant

tax authority, the expiration of statutes of limitation for the subject tax year, change in tax laws, or recent court cases that are relevant to the matter. Accrued interest related to these uncertain tax positions is recorded in our consolidated statement of operations in Interest expense, net.

The judgments and estimates made by the Company are based on management's evaluation of the technical merits of a matter, assisted as necessary by consultation with outside consultants, historical experience and other assumptions that management believes are appropriate and reasonable under current circumstances. Actual resolution of these matters may differ from recorded estimated amounts, resulting in adjustments that could materially affect future financial statements. See [Note 13](#) for further details.

Valuation allowances are recorded to reduce deferred tax assets when it is more likely than not that a tax benefit will not be realized. Significant judgment is required in assessing the need for and magnitude of appropriate valuation allowances against deferred tax assets. This assessment is completed by tax jurisdiction and relies on both positive and negative evidence available, with significant weight placed on recent financial results. Cumulative reported pre-tax income is considered objectively verifiable positive evidence of our ability to generate positive pre-tax income in the future. In accordance with GAAP, when there is a recent history of pre-tax losses, there is little or no weight placed on forecasts for purposes of assessing the recoverability of our deferred tax assets. When necessary, we use systematic and logical methods to estimate when deferred tax liabilities will reverse and generate taxable income and when deferred tax assets will reverse and generate tax deductions. Assumptions, judgment, and the use of estimates are required when scheduling the reversal of deferred tax assets and liabilities, and the exercise is inherently complex and subjective. The realization of these assets is dependent on generating future taxable income, as well as successful implementation of various tax planning strategies.

International Paper uses the flow-through method to account for investment tax credits earned on eligible open-loop biomass facilities and combined heat and power system expenditures. Under this method, the investment tax credits are recognized as a reduction to income tax expense in the year they are earned rather than a reduction in the asset basis.

ENVIRONMENTAL REMEDIATION COSTS

Costs associated with environmental remediation obligations are accrued when such costs are

probable and reasonably estimable. Such accruals are adjusted as further information develops or circumstances change. Costs of future expenditures for environmental remediation obligations are discounted to their present value when the amount and timing of expected cash payments are reliably determinable. See [Note 14](#) for further details.

TRANSLATION OF FINANCIAL STATEMENTS

Balance sheets of international operations are translated into U.S. dollars at year-end exchange rates, while statements of operations are translated at average rates. Adjustments resulting from financial statement translations are included as cumulative translation adjustments in Accumulated other comprehensive income (loss).

FAIR VALUE MEASUREMENTS

The guidance for fair value measurements and disclosures sets out a fair value hierarchy that groups fair value measurement inputs into the following three classifications:

Level 1: Quoted market prices in active markets for identical assets or liabilities.

Level 2: Observable market-based inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly.

Level 3: Unobservable inputs for the asset or liability reflecting the reporting entity's own assumptions or external inputs from inactive markets.

Transfers between levels are recognized at the end of the reporting period.

[NOTE 2 RECENT ACCOUNTING DEVELOPMENTS](#)

Other than as described below, no new accounting pronouncement issued or effective during the fiscal year has had or is expected to have a material impact on the consolidated financial statements.

RECENTLY ADOPTED ACCOUNTING PRONOUNCEMENTS

Government Assistance

In November 2021, the FASB issued ASU 2021-10, "Government Assistance (Topic 832): Disclosures by Business Entities about Government Assistance." This guidance requires a business entity to provide certain disclosures around assistance received from governments. This guidance is effective for annual reporting periods beginning after December 15, 2021.

The Company adopted the provisions of this guidance in 2022. We analyzed the government assistance received by the Company and determined that the amounts received were not material to the Company's consolidated financial statements and related disclosures.

RECENTLY ISSUED ACCOUNTING PRONOUNCEMENTS NOT YET ADOPTED

Reference Rate Reform

In March 2020, the FASB issued ASU 2020-04, "Reference Rate Reform (Topic 848): Facilitation of the Effects of Reference Rate Reform on Financial Reporting." This guidance provides companies with optional guidance to ease the potential accounting burden associated with transitioning away from reference rates that are expected to be discontinued. This guidance is effective upon issuance and generally can be applied through December 31, 2024.

The Company will apply the amendments in this update to account for contract modifications due to changes in reference rates once those occur. We do not expect these amendments to have a material impact on our consolidated financial statements and related disclosures.

Liabilities - Supplier Finance Programs

In September 2022, the FASB issued ASU 2022-04, "Liabilities - Supplier Finance Programs (Subtopic 405-50): Disclosure of Supplier Finance Program Obligations." This guidance requires a business entity operating as a buyer in a supplier finance agreement to disclose qualitative and quantitative information about its supplier finance programs. This guidance is effective for annual reporting periods beginning after December 15, 2022, and interim periods within those years. We do not expect this guidance to have a material impact on our consolidated financial statements. We continue to evaluate the disclosure requirements regarding supplier finance programs upon adoption.

NOTE 3 - REVENUErecognition

DISAGGREGATED REVENUE

Reportable Segments	2022					
	Industrial Packaging	Global Cellulose Fibers	Corporate & Intersegment	Total		
Primary Geographical Markets (a)						
United States	\$ 14,970	\$ 3,032	\$ 480	\$ 18,482		
EMEA	1,572	121	—	1,693		
Pacific Rim and Asia	46	74	3	123		
Americas, other than U.S.	863	—	—	863		
Total	\$ 17,451	\$ 3,227	\$ 483	\$ 21,161		
Operating Segments						
North American Industrial Packaging	\$ 16,011	\$ —	\$ —	\$ 16,011		
EMEA Industrial Packaging	1,572	—	—	1,572		
Global Cellulose Fibers	—	3,227	—	3,227		
Intrasegment Eliminations	(132)	—	—	(132)		
Corporate & Intersegment Sales	—	—	483	483		
Total	\$ 17,451	\$ 3,227	\$ 483	\$ 21,161		

(a) Net sales are attributed to countries based on the location of the reportable segment making the sale.

Reportable Segments	2021					
	Industrial Packaging	Global Cellulose Fibers	Corporate & Intersegment	Total		
Primary Geographical Markets (a)						
United States	\$ 14,006	\$ 2,510	\$ 253	\$ 16,769		
EMEA	1,506	109	(4)	1,611		
Pacific Rim and Asia	59	113	35	207		
Americas, other than U.S.	755	—	21	776		
Total	\$ 16,326	\$ 2,732	\$ 305	\$ 19,363		
Operating Segments						
North American Industrial Packaging	\$ 14,944	\$ —	\$ —	\$ 14,944		
EMEA Industrial Packaging	1,508	—	—	1,508		
Global Cellulose Fibers	—	2,732	—	2,732		
Intrasegment Eliminations	(126)	—	—	(126)		
Corporate & Intersegment Sales	—	—	305	305		
Total	\$ 16,326	\$ 2,732	\$ 305	\$ 19,363		

(a) Net sales are attributed to countries based on the location of the reportable segment making the sale.

	2020			
Reportable Segments	Industrial Packaging	Global Cellulose Fibers	Corporate & Intersegment	Total
Primary Geographical Markets (a)				
United States	12,770	2,212	196	15,178
EMEA	1,309	90	(4)	1,395
Pacific Rim and Asia	57	91	55	203
Americas, other than U.S.	764	—	25	789
Total	\$ 14,900	\$ 2,393	\$ 272	\$ 17,565
Operating Segments				
North American Industrial Packaging	\$ 13,552	\$ —	\$ —	\$ 13,552
EMEA Industrial Packaging	1,317	—	—	1,317
Brazilian Industrial Packaging	148	—	—	148
Global Cellulose Fibers	—	2,393	—	2,393
Intrasegment Eliminations	(117)	—	—	(117)
Corporate & Intersegment Sales	—	—	272	272
Total	\$ 14,900	\$ 2,393	\$ 272	\$ 17,565

(a) Net sales are attributed to countries based on the location of the reportable segment making the sale.

REVENUE CONTRACT BALANCES

A contract asset is created when the Company recognizes revenue on its customized products prior to having an unconditional right to payment from the customer, which generally does not occur until title and risk of loss passes to the customer.

A contract liability is created when customers prepay for goods prior to the Company transferring those goods to the customer. The contract liability is reduced once control of the goods is transferred to the customer. The majority of our customer prepayments are received during the fourth quarter each year for goods that will be transferred to customers over the following twelve months. Current liabilities of \$ 38 million and \$ 27 million are included in Other current liabilities in the accompanying consolidated balance sheet as of December 31, 2022 and 2021, respectively. During the second quarter of 2021, the Company also recorded a contract liability of \$ 115 million related to the April 2021 acquisition disclosed in [Note 7 - Acquisitions](#). The balance of this contract liability was \$ 99 million and \$ 107 million at December 31, 2022 and 2021, respectively, and is recorded in Other current liabilities and Other Liabilities in the accompanying consolidated balance sheet.

The difference between the opening and closing balances of the Company's contract assets and contract liabilities primarily results from the difference between the price and quantity at comparable points in time for goods which we have an unconditional

right to payment or receive prepayment from the customer, respectively.

PERFORMANCE OBLIGATIONS AND SIGNIFICANT JUDGMENTS

International Paper's principal business is to manufacture and sell fiber-based packaging and pulp goods. As a general rule, none of our businesses provide equipment installation or other ancillary services outside of producing and shipping packaging and pulp products to customers.

The nature of the Company's contracts can vary based on the business, customer type and region; however, in all instances it is International Paper's customary business practice to receive a valid order from the customer, in which each parties' rights and related payment terms are clearly identifiable.

Contracts or purchase orders with customers could include a single type of product or it could include multiple types/grades of products. Regardless, the contracted price with the customer is agreed to at the individual product level outlined in the customer contracts or purchase orders. The Company does not bundle prices; however, we do negotiate with customers on pricing and rebates for the same products based on a variety of factors (e.g. level of contractual volume, geographical location, etc.). Management has concluded that the prices negotiated with each individual customer are representative of the stand-alone selling price of the product.

NOTE 4 EARNINGS PER SHARE ATTRIBUTABLE TO INTERNATIONAL PAPER COMPANY COMMON SHAREHOLDERS

Basic earnings per share is computed by dividing earnings by the weighted average number of common shares outstanding. Diluted earnings per share is computed assuming that all potentially dilutive securities were converted into common shares.

There are no adjustments required to be made to net income for purposes of computing basic and diluted earnings per share.

A reconciliation of the amounts included in the computation of basic earnings (loss) per share from continuing operations, and diluted earnings (loss) per share from continuing operations is as follows:

<i>In millions, except per share amounts</i>	2022	2021	2020
Earnings (loss) from continuing operations attributable to International Paper common shareholders	\$ 1,741	\$ 811	\$ 182
Weighted average common shares outstanding	363.5	389.4	393.0
Effect of dilutive securities:			
Restricted performance share plan	3.5	3.0	2.7
Weighted average common shares outstanding	367.0	392.4	395.7
– assuming dilution			
Basic earnings (loss) per share from continuing operations	\$ 4.79	\$ 2.08	\$ 0.46
Diluted earnings (loss) per share from continuing operations	\$ 4.74	\$ 2.07	\$ 0.46

NOTE 5 OTHER COMPREHENSIVE INCOME

The following table presents changes in Accumulated Other Comprehensive Income (Loss) (AOCI), net of tax, reported in the consolidated financial statements for the years ended December 31:

<i>In millions</i>	2022	2021	2020
Defined Benefit Pension and Postretirement Adjustments			
Balance at beginning of period	\$ (962)	\$ (1,880)	\$ (2,277)
Other comprehensive income (loss) before reclassifications	(319)	713	227
Reclassification related to Sylvamo Corporation spin-off	—	80	—
Amounts reclassified from accumulated other comprehensive income (loss)	86	125	170
Balance at end of period	(1,195)	(962)	(1,880)
Change in Cumulative Foreign Currency Translation Adjustments			
Balance at beginning of period	(694)	(2,457)	(2,465)
Other comprehensive income (loss) before reclassifications	(38)	(115)	(319)
Reclassification related to Sylvamo Corporation spin-off	—	1,692	—
Amounts reclassified from accumulated other comprehensive income (loss)	10	184	327
Other Comprehensive Income (Loss) Attributable to Noncontrolling Interest	—	2	—
Balance at end of period	(722)	(694)	(2,457)
Net Gains and Losses on Cash Flow Hedging Derivatives			
Balance at beginning of period	(10)	(5)	3
Other comprehensive income (loss) before reclassifications	—	3	(34)
Reclassification related to Sylvamo Corporation spin-off	—	1	—
Amounts reclassified from accumulated other comprehensive income (loss)	2	(9)	26
Balance at end of period	(8)	(10)	(5)
Total Accumulated Other Comprehensive Income (Loss) at End of Period	\$ (1,925)	\$ (1,666)	\$ (4,342)

Reclassifications out of AOCI for the three years ended December 31 were as follows:

	Amount Reclassified from Accumulated Other Comprehensive Income (Loss)			Location of Amount Reclassified from AOCI	
	2022	2021	2020		
In millions					
Defined benefit pension and postretirement items:					
Prior-service costs	\$ (23)	\$ (20)	\$ (19)	(a) Non-operating pension expense	
Actuarial gains/(losses)	(91)	(146)	(207)	(a) Non-operating pension expense	
Total pre-tax amount	(114)	(166)	(226)		
Tax (expense)/benefit	28	41	56		
Net of tax	(86)	(125)	(170)		
Reclassification related to Sylvamo Corporation spin-off	—	(80)	—	Paid-in Capital	
Total, net of tax	(86)	(205)	(170)		
Change in cumulative foreign currency translation adjustments:					
Business divestiture	(10)	(184)	(327)	Net (gains) losses on sales of equity method investments, Discontinued Operations, net of taxes and Net (gains) losses on sales and impairment of businesses	
Tax (expense)/benefit	—	—	—		
Net of tax	(10)	(184)	(327)		
Reclassification related to Sylvamo Corporation spin-off	—	(1,692)	—	Paid-in Capital	
Total, net of tax	(10)	(1,876)	(327)		
Net gains and losses on cash flow hedging derivatives:					
Cash flow hedges	(3)	11	(39)	(b) Cost of products sold, Discontinued operations, net of taxes, and Interest expense, net	
Total pre-tax amount	(3)	11	(39)		
Tax (expense)/benefit	1	(2)	13		
Net of tax	(2)	9	(26)		
Reclassification related to Sylvamo Corporation spin-off	—	(1)	—	Paid-in Capital	
Total, net of tax	(2)	8	(26)		
Total reclassifications for the period, net of tax	\$ (98)	\$ (2,073)	\$ (523)		

(a) These accumulated other comprehensive income (loss) components are included in the computation of net periodic pension cost (see [Note 19](#) for additional details).

(b) This accumulated other comprehensive income (loss) component is included in our derivatives and hedging activities (see [Note 17](#) for additional details).

NOTE 6 RESTRUCTURING AND OTHER CHARGES, NET

2022: During 2022, restructuring and other charges, net, totaling \$ 89 million before taxes were recorded. The charges included:

<i>In millions</i>	2022
Early debt extinguishment costs (see Note 16)	\$ 93
Other restructuring items	(4)
Total	\$ 89

2021: During 2021, restructuring and other charges, net, totaling \$ 509 million before taxes were recorded. The charges included:

<i>In millions</i>	2021
Early debt extinguishment costs (see Note 16)	\$ 461
Building a Better IP (a)	29
EMEA packaging restructuring (b)	12
Other restructuring items	7
Total	\$ 509

(a) Severance related to our Building a Better IP initiative which is focused on value creation through streamlined operations and process optimization. The majority of the severance charges were paid in 2022.

(b) Severance related to the optimization of our EMEA Packaging business. The majority of the severance charges were paid in 2022.

2020: During 2020, restructuring and other charges, net, totaling \$ 195 million before taxes were recorded. These charges included:

<i>In millions</i>	2020
Early debt extinguishment costs (see Note 16)	\$ 196
Other restructuring items	(1)
Total	\$ 195

NOTE 7 ACQUISITIONS

2021: On April 1, 2021, the Company closed on the previously announced acquisition of two box plants located in Spain. The total purchase consideration, inclusive of working capital adjustments, was approximately € 71 million (approximately \$ 83 million based on the April 1, 2021 exchange rate).

The following table summarizes the final fair value assigned to assets and liabilities acquired as of April 1, 2021:

<i>In millions</i>	
Cash and temporary investments	\$ 5
Accounts and notes receivable	10
Inventories	3
Plants, properties and equipment	50
Goodwill	23
Intangible assets	13
Total assets acquired	104
Short-term debt	2
Accounts payable and accrued liabilities	4
Other current liabilities	2
Long-term debt	1
Deferred income taxes	12
Total liabilities assumed	21
Net assets acquired	\$ 83

Pro forma information has not been included as it is impracticable to obtain the information due to the lack of availability of historical U.S. GAAP financial data. The results of the operations of these businesses do not have a material effect on the Company's consolidated results of operations.

The Company has accounted for the above acquisition under ASC 805, "Business Combinations" and the results of operations have been included in International Paper's financial statements beginning with the date of acquisition.

2021: In April 2021, the Company received a noncontrolling interest in a U.S-based corrugated packaging producer. In the second quarter, the Company recorded its investment of \$ 115 million based on the fair value of the noncontrolling interest, and a corresponding contract liability that is amortized over 15 years. The Company is party to various agreements with the entity which includes a containerboard supply agreement. The Company is accounting for its interest as an equity method investment.

NOTE 8 DIVESTITURES

PRINTING PAPERS SPIN-OFF

2021: On October 1, 2021, the Company completed the previously announced spin-off of its Printing Papers segment along with certain mixed-use coated paperboard and pulp businesses in North America, France and Russia into a standalone, publicly-traded company, Sylvamo Corporation. The transaction was implemented through the distribution of shares of the standalone company to International Paper's shareholders (the "Distribution"). As a result of the Distribution, Sylvamo Corporation is an independent public company that trades on the New York Stock Exchange under the symbol "SLVM".

The Distribution was made to the Company's stockholders of record as of the close of business on September 15, 2021 (the "Record Date"), and such stockholders received one share of Sylvamo common stock for every 11 shares of International Paper common stock held as of the close of business on the Record Date. The Company retained 19.9 % of the shares of Sylvamo at the time of the separation and this retained investment is discussed further in [Note 9 - Supplementary Financial Statement Information](#). The spin-off was tax-free for the Company and its shareholders for U.S. federal income tax purposes.

In connection with the Distribution, on September 29, 2021, the Company and Sylvamo entered into a separation and distribution agreement as well as various other agreements that govern the relationships between the parties following the Distribution, including a transition services agreement, a tax matters agreement and an employee matters agreement. These agreements provided for the allocation between the Company and Sylvamo of assets, liabilities and obligations attributable to periods prior to, at and after the Distribution and govern certain relationships between the Company and Sylvamo after the Distribution. The Company was also party to various ongoing operational agreements with Sylvamo under which it sold fiber, paper and other products. Related party sales under these agreements were \$ 630 million and \$ 185 million for the year ended December 31, 2022 and 2021, respectively. As of the end of the third quarter 2022, the Company no longer had an ownership interest in Sylvamo and as such will no longer be a related party. See [Note 9 - Supplementary Financial Statement Information](#) for further discussion.

All historical operating results of the Sylvamo businesses, as well as the results of our Kwidzyn, Poland mill that was sold on August 6, 2021, are presented as Discontinued Operations, net of tax, in the consolidated statement of operations. Kwidzyn was previously part of the Printing Papers business prior to its sale in August 2021. See the Kwidzyn Mill section below for further details regarding this sale.

The following summarizes the major classes of line items comprising Earnings (Loss) Before Income Taxes and Equity Earnings reconciled to Discontinued Operations, net of tax, related to the Sylvamo Corporation businesses and Kwidzyn for all prior periods presented in the consolidated statement of operations:

	2021	2020
Net Sales	\$ 2,417	\$ 3,015
Costs and Expenses		
Cost of products sold	1,508	2,036
Selling and administrative expenses	224	165
Depreciation, amortization and cost of timber harvested	113	196
Distribution expenses	229	264
Taxes other than payroll and income taxes	24	35
Net (gains) losses on sales of fixed assets	(86)	—
Net (gains) losses on sales and impairments of businesses	(351)	—
Interest expense, net	(19)	(2)
Earnings (Loss) Before Income Taxes and Equity Earnings	775	321
Income tax provision (benefit)	145	69
Discontinued Operations, Net of Taxes	\$ 630	\$ 252

The following summarizes the total cash provided by operations and total cash used for investing activities related to the Sylvamo Corporation businesses and Kwidzyn and included in the consolidated statement of cash flows:

	2021	2020
Cash Provided by (Used For) Operating Activities	\$ 290	\$ 463
Cash Provided by (Used For) Investment Activities	\$ 757	\$ (111)

In anticipation of the spin-off, Sylvamo incurred \$ 1.5 billion in debt during the third quarter of 2021 with the proceeds used for a distribution to the Company and other expenses associated with the transaction. The Company was an obligor of the debt prior to the spin-off as Sylvamo was a wholly-owned subsidiary. Subsequent to the distribution of the net assets, the Company was no longer an obligor of the Sylvamo debt. The \$ 1.5 billion of borrowings was comprised of \$ 450 million of 7.00 % senior unsecured notes due 2029 issued in September 2021. It was also comprised of the senior secured credit facility that Sylvamo entered into in September 2021 which consisted of \$ 450 million of borrowings related to its term loan "B" facility, \$ 520 million of borrowings related to its term loan "F" facility, and the \$ 100 million draw on its revolving credit facility which had a capacity of \$ 450 million. Additionally, at the time of the spin-off in the fourth quarter of 2021, the Company distributed \$ 130 million to Sylvamo. The debt issuance and distribution to Sylvamo Corporation are classified as financing activities in the accompanying consolidated statement of cash flows.

KWIDZYN MILL

2021: On August 6, 2021, the Company completed the sale of its Kwidzyn, Poland mill for € 669 million (approximately \$ 794 million using the July 31, 2021 exchange rate) in cash. The business included the pulp and paper mill in Kwidzyn and supporting functions. During the third quarter of 2021, the Company recorded a net gain of \$ 360 million (\$ 350 million after taxes) including a gain of \$ 404 million (\$ 394 million after taxes) related to the sale of net assets and a loss of \$ 44 million (before and after taxes) related to the cumulative foreign currency translation loss. During the fourth quarter of 2021, the Company incurred \$ 9 million (\$ 6 million after taxes) of costs related to the sale of Kwidzyn. All historical operating results for Kwidzyn have been presented as Discontinued Operations, net of tax, in the consolidated statement of operations.

OLMUKSAN INTERNATIONAL PAPER

2021: On May 31, 2021, the Company completed the sale of its 90.38 % ownership interest in Olmuksan International Paper, a corrugated packaging business in Turkey, to Mondi Group for € 66 million (approximately \$ 81 million using the May 31, 2021 exchange rate). During the twelve months ended December 31, 2021, the Company recorded a net gain of \$ 4 million (\$ 2 million after taxes) related to the business working capital adjustment and cumulative foreign currency translation loss.

In conjunction with the announced agreement in the fourth quarter of 2020, a determination was made that the current book value of the Olmuksan International Paper disposal group exceeded its estimated fair value of \$ 79 million which was based on the agreed upon transaction price. As a result, a preliminary charge of \$ 123 million (before and after taxes) was recorded during the fourth quarter of 2020.

BRAZIL PACKAGING

2020: On October 14, 2020, the Company closed the previously announced sale of its Brazilian Industrial Packaging business for R\$ 330 million (\$ 58.5 million U.S. dollars), with R\$ 280 million (\$ 49.6 million U.S. dollars) paid at closing and R\$ 50 million (\$ 8.9 million U.S. dollars) to be paid one year from closing. This business included three containerboard mills and four box plants and the agreement followed International Paper's previously announced strategic review of the Brazilian Industrial Packaging business.

In conjunction with the announced agreement, net pre-tax charges of \$ 347 million (\$ 340 million after taxes) were recorded in 2020. These charges included \$ 327 million related to the cumulative foreign currency translation loss and a \$ 20 million loss

related the write down of the long-lived assets of the Brazilian Industrial Packaging business to their estimated fair value. These charges are included in Net (gains) losses on sales and impairments of businesses in the accompanying consolidated statement of operations and is included in the results for the Industrial Packaging segment.

NOTE 9 SUPPLEMENTARY FINANCIAL STATEMENT INFORMATION**TEMPORARY INVESTMENTS**

Temporary investments with an original maturity of three months or less and money market funds with greater than three month maturities but with the right to redeem without notices are treated as cash equivalents and are stated at cost. Temporary investments totaled \$ 690 million and \$ 1.1 billion at December 31, 2022 and 2021, respectively.

ACCOUNTS AND NOTES RECEIVABLE

Accounts and notes receivable, net, by classification were:

<i>In millions at December 31</i>	2022	2021
Accounts and notes receivable:		
Trade (less allowances of \$ 31 in 2022 and \$ 34 in 2021)	\$ 3,064	\$ 3,027
Other	220	205
Total	\$ 3,284	\$ 3,232

INVENTORIES

<i>In millions at December 31</i>	2022	2021
Raw materials	\$ 267	\$ 245
Finished pulp and packaging products	1,071	1,014
Operating supplies	516	486
Other	88	69
Inventories	\$ 1,942	\$ 1,814

The last-in, first-out inventory method is used to value most of International Paper's U.S. inventories. Approximately 76 % of total raw materials and finished products inventories were valued using this method. The last-in, first-out inventory reserve was \$ 282 million and \$ 195 million at December 31, 2022 and 2021, respectively.

CURRENT INVESTMENTS

As a result of the 2021 spin-off of Sylvamo, the Company retained 19.9 % of the shares of Sylvamo with the intent to monetize its investment and provide additional proceeds to the Company. In the second quarter 2022, the Company exchanged 4,132,000 shares of Sylvamo common stock owned by the Company in exchange and as repayment for an

approximately \$ 144 million term loan obligation which resulted in the reversal of a \$ 31 million deferred tax liability due to the tax-free exchange of the Sylvamo Corporation common stock. In the third quarter 2022, the Company exchanged the remaining 4,614,358 shares of Sylvamo common stock owned by the Company in exchange for \$ 167 million and as partial repayment of a \$ 210 million term loan obligation. This also resulted in the reversal of a \$ 35 million deferred tax liability due to the tax-free exchange of the Sylvamo Corporation common stock. See [Note 16 - Debt and Lines of Credit](#) for further discussion.

As of the end of the third quarter 2022, the Company no longer had an ownership interest in Sylvamo. The Company's investment in Sylvamo was valued at \$ 245 million at December 31, 2021, and was recorded in Current investments in the accompanying consolidated balance sheet. The Company accounted for its ownership interest in Sylvamo at fair value as an investment in equity securities.

PLANTS, PROPERTIES AND EQUIPMENT

<i>In millions at December 31</i>	2022	2021
Pulp and packaging facilities	\$ 27,773	\$ 27,025
Other properties and equipment	1,029	972
Gross cost	28,802	27,997
Less: Accumulated depreciation	18,371	17,556
Plants, properties and equipment, net	\$ 10,431	\$ 10,441

Non-cash additions to plants, property and equipment included within accounts payable were \$ 185 million, \$ 106 million and \$ 41 million at December 31, 2022, 2021 and 2020, respectively.

Amounts invested in capital projects in the accompanying consolidated statement of cash flows are presented net of insurance recoveries of \$ 26 million, \$ 17 million and \$ 42 million received during the years ended December 31, 2022, 2021 and 2020, respectively.

Annual straight-line depreciable lives generally are, for buildings - 20 to 40 years, and for machinery and equipment - 3 to 20 years. Depreciation expense was \$ 996 million for the year ended December 31, 2022 and \$ 1.1 billion for each of the years ended December 31, 2021 and 2020. Cost of products sold excludes depreciation and amortization expense.

INTEREST

Interest payments of \$ 380 million, \$ 473 million and \$ 682 million were made during the years ended December 31, 2022, 2021 and 2020, respectively.

Amounts related to interest were as follows:

<i>In millions</i>	2022	2021	2020
Interest expense	\$ 403	\$ 430	\$ 597
Interest income	78	93	151
Capitalized interest costs	18	12	31

ASSET RETIREMENT OBLIGATIONS

At December 31, 2022 and 2021, we had recorded liabilities of \$ 105 million and \$ 107 million, respectively, related to asset retirement obligations.

In connection with potential future closures or redesigns of certain production facilities, it is possible that the Company may be required to take steps to remove certain materials from these facilities. Applicable regulations and standards provide that the removal of certain materials would only be required if the facility were to be demolished or underwent major renovations. At this time, any such obligations have an indeterminate settlement date, and the Company believes that adequate information does not exist to apply an expected-present-value technique to estimate any such potential obligations. Accordingly, the Company does not record a liability for such remediation until a decision is made that allows reasonable estimation of the timing of such remediation.

[NOTE 10 LEASES](#)

International Paper leases various real estate, including certain operating facilities, warehouses, office space and land. The Company also leases material handling equipment, vehicles, and certain other equipment. The Company's leases have remaining lease terms of up to 31 years.

COMPONENTS OF LEASE EXPENSE

<i>In millions</i>	2022	2021	2020
Operating lease costs, net	\$ 153	\$ 138	\$ 132
Variable lease costs	39	40	43
Short-term lease costs, net	57	53	46
Finance lease cost			
Amortization of lease assets	11	11	10
Interest on lease liabilities	3	3	3
Total lease cost, net	\$ 263	\$ 245	\$ 234

SUPPLEMENTAL BALANCE SHEET INFORMATION RELATED TO LEASES

<i>In millions</i>	Classification	2022	2021
Assets			
Operating lease assets	Right of use assets	\$ 424	\$ 365
	Plants, properties and equipment, net		
Finance lease assets	(a)	49	57
Total leased assets		\$ 473	\$ 422
Liabilities			
Current			
Operating	Other current liabilities	\$ 147	\$ 132
	Notes payable and current maturities of long-term debt		
Finance		10	10
Noncurrent			
Operating	Long-term lease obligations	283	236
Finance	Long-term debt	49	56
Total lease liabilities		\$ 489	\$ 434

(a) Finance leases are recorded net of accumulated amortization of \$ 59 million and \$ 51 million at December 31, 2022 and 2021, respectively.

LEASE TERM AND DISCOUNT RATE

<i>In millions</i>	2022	2021
Weighted average remaining lease term (years)		
Operating leases	4.1 years	4.0 years
Finance leases	8.4 years	9.1 years
Weighted average discount rate		
Operating leases	2.96 %	2.12 %
Finance leases	4.57 %	4.50 %

SUPPLEMENTAL CASH FLOW INFORMATION RELATED TO LEASES

<i>In millions</i>	2022	2021	2020
Cash paid for amounts included in the measurement of lease liabilities			
Operating cash flows related to operating leases	\$ 160	\$ 166	\$ 162
Operating cash flows related to financing leases	3	4	5
Financing cash flows related to finance leases	10	14	10
Right of use assets obtained in exchange for lease liabilities			
Operating leases	221	156	179
Finance leases	6	9	11

MATURITY OF LEASE LIABILITIES

<i>In millions</i>	Operating Leases	Financing Leases	Total
2023	\$ 157	\$ 13	\$ 170
2024	113	11	124
2025	75	10	85
2026	48	9	57
2027	30	8	38
Thereafter	36	26	62
Total lease payments	459	77	536
Less imputed interest	29	18	47
Present value of lease liabilities	\$ 430	\$ 59	\$ 489

NOTE 11 EQUITY METHOD INVESTMENTS

The Company accounts for the following investments under the equity method of accounting.

ILIM S.A. ("Ilim")

The Company holds a 50 % equity interest in Ilim, the holding company for its Ilim joint venture (JV), which has subsidiaries, including JSC Ilim Group, whose primary operations are in Russia. The Company recently announced that it had entered into an agreement to sell its interest in Ilim to its JV partners for \$ 484 million. The completion of the sale is subject to various closing conditions, including the receipt of regulatory approvals in Russia.

The Company also received an indication of interest from its JV partners to purchase all of the Company's shares (constituting a 2.39 % stake) in JSC Ilim Group for \$ 24 million, on terms and conditions to be agreed. The Company intends to pursue an agreement to sell the JSC Ilim Group shares, and to divest other non-material residual interests associated with Ilim, to its JV partners.

In conjunction with the entry into the announced agreement, a determination was made that the book value of the Ilim and JSC Ilim Group investments plus associated cumulative translation losses, exceeded fair value, based upon the agreed upon transaction price for Ilim and the offer price for JSC Ilim Group. As a result, an other than temporary impairment of \$ 533 million was recorded in the fourth quarter of 2022 to write down these investments to fair value. The impairment charge included \$ 375 million of foreign currency cumulative translation adjustment loss. As of December 31, 2022, the \$ 375 million of cumulative translation adjustment loss remained within AOCI with the recognition of this loss recorded as an offset to the investment balance.

The Company also evaluated facts and circumstances as of December 31, 2022 and concluded that the held for sale balance sheet classification criteria had been met as of that date and therefore have classified the Ilim investment balance, net of impairment, as Assets held for sale. Additionally, the December 31, 2021 investment balance has been reclassified to Long-Term Assets Held for Sale.

All current and historical results of the Ilim investment are presented as Discontinued Operations, net of taxes in the consolidated statement of operations. The Company recorded equity earnings, net of taxes, of \$ 296 million, \$ 311 million, and \$ 48 million in 2022, 2021, and 2020, respectively, for Ilim. Equity earnings includes an after-tax foreign exchange (loss) gain of \$(50) million in 2020, primarily on the remeasurement of U.S. dollar-denominated net debt. Foreign exchange gains (losses) included in equity earnings in 2022 and 2021, were not material. JSC Ilim Group had no U.S. dollar-denominated debt outstanding as of December 31, 2022. The Company received cash dividends from the joint venture of \$ 204 million, \$ 154 million and \$ 141 million in 2022, 2021 and 2020, respectively. At December 31, 2022 and 2021, the Company's investment in Ilim, which is recorded in Assets held for sale in the consolidated balance sheet, was \$ 133 million and \$ 55.7 million, respectively, which was \$ 40.3 million lower and \$ 12.1 million higher, respectively, than the Company's proportionate share of the joint venture's underlying net assets.

Prior to the spin-off of the Printing Papers segment on October 1, 2021, the Company was party to a joint marketing agreement with JSC Ilim Group, a subsidiary of Ilim, under which the Company purchased, marketed and sold paper produced by JSC Ilim Group. Purchases under this agreement were \$ 125 million and \$ 174 million for the years ended December 31, 2021 and 2020, respectively. The joint marketing agreement was conveyed to Sylvamo as part of the spin-off transaction on October 1, 2021.

Summarized financial information for Ilim is presented in the following tables:

Balance Sheet

<i>In millions</i>	2022	2021
Current assets	\$ 766	\$ 1,010
Noncurrent assets	3,663	3,145
Current liabilities	1,275	1,212
Noncurrent liabilities	2,040	2,047
Noncontrolling interests	40	24

Income Statement

<i>In millions</i>	2022	2021	2020
Net sales	\$ 3,147	\$ 2,693	\$ 2,015
Gross profit	1,561	1,432	838
Income from continuing operations	591	635	115
Net income	575	613	113

GRAPHIC PACKAGING INTERNATIONAL PARTNERS, LLC

The Company completed the transfer of its North American Consumer Packaging business in exchange for an initial 20.5 % ownership interest (79,911,591 units) in Graphic Packaging International Partners, LLC (GPIP) in 2018. The Company has since fully monetized its investment in GPIP with transactions beginning in the first quarter 2020 through the second quarter 2021.

Date	Transaction Type	Units	Proceeds	Pre-Tax Gain	After-Tax Gain
<i>In millions except units</i>					
<i>Units</i>					
2020 First Quarter	Units exchange	15,150,784	\$ 250	\$ 33	\$ 25
2020 Third Quarter	Units exchange	17,399,414	250	—	—
Units exchange and open					
2021 First Quarter	market sale	24,588,316	397	33	25
2021 First Quarter	TRA (a)			42	31
2021 Second Quarter	Units exchange and open				
2021 Second Quarter	market sale	22,773,077	403	64	48
2021 Second Quarter	TRA (a)			66	50

(a) The TRA entitles the Company to 50 % of the amount of any tax benefits projected to be realized by GPIP upon the Company's exchange of its units. The Company made income tax payments of \$ 310 million in 2021 as a result of the monetization of its investment in GPIP.

As of June 30, 2021, the Company no longer had an ownership interest in GPIP. The Company recorded equity earnings of \$ 4 million and \$ 40 million for the twelve months ended December 31, 2021 and 2020, respectively. The Company received cash dividends from GPIP of \$ 5 million and \$ 20 million during 2021 and 2020, respectively.

The Company's remaining equity method investments are not material.

NOTE 12 GOODWILL AND OTHER INTANGIBLES

GOODWILL

The following table presents changes in the goodwill balances as allocated to each business segment for the years ended December 31, 2022 and 2021:

<i>In millions</i>	Industrial Packaging	Global Cellulose Fibers	Total
Balance as of December 31, 2020			
Goodwill	\$ 3,411	\$ 52	\$ 3,463
Accumulated impairment losses	(296)	(52)	(348)
	3,115	—	3,115
Currency translation and other (a)	(8)	—	(8)
Goodwill additions/reductions	23 (b)	—	23
Balance as of December 31, 2021			
Goodwill	3,426	52	3,478
Accumulated impairment losses	(296)	(52)	(348)
	3,130	—	3,130
Currency translation and other (a)	(13)	—	(13)
Impairment loss	(76) (c)	—	(76)
Balance as of December 31, 2022			
Goodwill	3,413	52	3,465
Accumulated impairment losses	(372)	(52)	(424)
Total	\$ 3,041	\$ —	\$ 3,041

(a) Represents the effects of foreign currency translations and reclassifications.

(b) Reflects the goodwill for the acquisitions of EMEA Industrial Packaging box plants.

(c) Reflects the impairment of the EMEA Industrial Packaging reporting unit.

The Company performed its annual testing of its reporting units for possible goodwill impairments by applying the qualitative assessment to its North America Industrial Packaging reporting unit and the quantitative goodwill impairment test to its EMEA Industrial Packaging reporting unit as of October 1, 2022.

For the current year evaluation, the Company assessed various assumptions, events and circumstances that would have affected the estimated fair value of the North America Industrial Packaging reporting unit under the qualitative assessment and the results of the qualitative assessments indicated that it was not more likely than not that the fair value of the reporting unit was less than its carrying value.

The Company also performed the quantitative goodwill impairment test which included comparing the carrying amount of the EMEA Industrial Packaging reporting unit to its estimated fair value. The estimated fair value of the reporting unit was calculated using a weighted approach based on

discounted future cash flows, market multiples and transaction multiples which are classified as Level 2 and Level 3 within the fair value hierarchy. The determination of fair value using the discounted cash flow approach requires management to make significant estimates and assumptions related to forecasts of future revenues, operating profit margins, and discount rates. The determination of fair value using market multiples and transaction multiples requires management to make significant assumptions related to revenue multiples and adjusted earnings before interest, taxes, depreciation, and amortization ("EBITDA") multiples. The results of our quantitative goodwill impairment test indicated that the carrying amount exceeded the estimated fair value of the EMEA Industrial Packaging reporting unit

and it was determined that all of the goodwill in the reporting unit, totaling \$ 76 million, was impaired. The decline in the fair value of EMEA Industrial Packaging and resulting impairment charge was due to the impacts of certain negative macroeconomic conditions, including the impacts from inflation and the geopolitical environment to the reporting unit.

OTHER INTANGIBLES

Identifiable intangible assets are recorded in Deferred Charges and Other Assets in the accompanying consolidated balance sheet and comprised the following:

In millions at December 31	2022			2021		
	Gross	Net	Gross	Net		
	Carrying Amount	Accumulated Amortization	Intangible Assets	Carrying Amount	Accumulated Amortization	Intangible Assets
Customer relationships and lists	\$ 490	\$ 303	\$ 187	\$ 493	\$ 273	\$ 220
Trademarks, and developed technology	170	146	24	170	131	39
Land and water rights	8	2	6	8	2	6
Other	23	20	3	24	21	3
Total	\$ 691	\$ 471	\$ 220	\$ 695	\$ 427	\$ 268

The Company recognized the following amounts as amortization expense related to intangible assets:

In millions	2022	2021	2020
Amortization expense related to intangible assets	\$ 44	\$ 44	\$ 45

Based on current intangibles subject to amortization, estimated amortization expense for each of the succeeding years is as follows: 2023 – \$ 40 million, 2024 – \$ 40 million, 2025 – \$ 34 million, 2026 – \$ 29 million, 2027 – \$ 11 million, and cumulatively thereafter – \$ 60 million.

NOTE 13 INCOME TAXES

The components of International Paper's earnings from continuing operations before income taxes and equity earnings by taxing jurisdiction were as follows:

In millions	2022	2021	2020
Earnings (loss)			
U.S.	\$ 1,469	\$ 906	\$ 660
Non-U.S.	42	93	(331)
Earnings (loss) from continuing operations before income taxes and equity earnings (losses)			
	\$ 1,511	\$ 999	\$ 329

The provision (benefit) for income taxes from continuing operations (excluding noncontrolling interests) by taxing jurisdiction was as follows:

In millions	2022	2021	2020
Current tax provision (benefit)			
U.S. federal	\$ 454	\$ 413	\$ 98
U.S. state and local	56	47	31
Non-U.S.	27	37	(3)
	\$ 537	\$ 497	\$ 126
Deferred tax provision (benefit)			
U.S. federal	\$ (775)	\$ (274)	\$ (2)
U.S. state and local	(39)	(27)	2
Non-U.S.	41	(8)	50
	\$ (773)	\$ (309)	\$ 50
Income tax provision (benefit)	\$ (236)	\$ 188	\$ 176

The Company's deferred income tax provision (benefit) includes a \$ 3 million benefit, an \$ 8 million benefit and a \$ 2 million benefit for 2022, 2021 and 2020, respectively, for the effect of various changes in non-U.S. and U.S. federal and state tax rates.

International Paper made income tax payments, net of refunds, of \$ 345 million, \$ 601 million and \$ 162 million in 2022, 2021 and 2020, respectively.

A reconciliation of income tax expense using the statutory U.S. income tax rate compared with the actual income tax provision follows:

	2022	2021	2020
<i>In millions</i>			
Earnings (loss) from continuing operations before income taxes and equity earnings	\$ 1,511	\$ 999	\$ 329
Statutory U.S. income tax rate	21 %	21 %	21 %
Tax expense (benefit) using statutory U.S. income tax rate	317	210	69
State and local income taxes	44	15	26
Impact of rate differential on non-U.S. permanent differences and earnings	1	5	29
Foreign valuation allowance	45	—	—
Tax expense (benefit) on exchange of Sylvamo shares	(56)	—	—
Adjustment to tax basis of assets	—	(14)	—
Non-deductible business expenses	2	1	4
Non-deductible impairments	16	—	92
Non-deductible compensation	13	11	11
Tax audits	6	9	(28)
Timber Monetization Audit Settlement	(604)	—	—
U.S. federal tax rate change	—	—	7
Foreign derived intangible income deduction	(8)	(7)	—
US tax on non-U.S. earnings (GILTI and Subpart F)	27	5	6
Foreign tax credits	8	(6)	(3)
General business and other tax credits	(43)	(39)	(42)
Tax expense (benefit) on equity earnings	(1)	—	8
Other, net	(3)	(2)	(3)
Income tax provision (benefit)	\$ (236)	\$ 188	\$ 176
Effective income tax rate	(16)%	19 %	53 %

The tax effects of significant temporary differences, representing deferred income tax assets and liabilities at December 31, 2022 and 2021, were as follows:

	2022	2021
<i>In millions</i>		
Deferred income tax assets:		
Postretirement benefit accruals	\$ 68	\$ 84
Pension obligations	18	—
Tax credits	175	199
Net operating and capital loss carryforwards	568	661
Compensation reserves	151	184
Lease obligations	108	92
Environmental reserves	119	104
Other	271	189
Gross deferred income tax assets	\$ 1,478	\$ 1,513
Less: valuation allowance (a)	(677)	(708)
Net deferred income tax asset	\$ 801	\$ 805
Deferred income tax liabilities:		
Intangibles	\$ (147)	\$ (140)
Investments	(2)	(56)
Right of use assets	(108)	(92)
Pension obligations	—	(34)
Plants, properties and equipment	(1,778)	(1,776)
Forests, related installment sales, and investment in subsidiary	(485)	(1,279)
Gross deferred income tax liabilities	\$ (2,520)	\$ (3,377)
Net deferred income tax liability	\$ (1,719)	\$ (2,572)

(a) The net change in the total valuation allowance for the years ended December 31, 2022 and 2021 was a decrease of \$(31) million and an increase of \$27 million, respectively. The net change in the current year includes an increase impacting the future utilization of foreign deferred tax assets of \$45 million.

Deferred income tax assets and liabilities are recorded in the accompanying consolidated balance sheet under the captions Deferred charges and other assets and Deferred income taxes, respectively. The \$ 485 million of deferred tax liabilities for forests, related installment sales, and investment in subsidiary is attributable to a 2007 Temple-Inland installment sale of forests (see [Note 15](#)).

A reconciliation of the beginning and ending amount of unrecognized tax benefits for the years ended December 31, 2022, 2021 and 2020 is as follows:

<i>In millions</i>	2022	2021	2020
Balance at January 1	\$ (166)	\$ (143)	\$ (166)
(Additions) reductions for tax positions related to current year	(7)	(13)	(10)
(Additions) for tax positions related to prior years	(10)	(23)	(10)
Reductions for tax positions related to prior years	3	1	30
Settlements	1	10	13
Expiration of statutes of limitations	1	1	1
Currency translation adjustment	1	1	(1)
Balance at December 31	\$ (177)	\$ (166)	\$ (143)

If the Company were to prevail on the unrecognized tax benefits recorded, substantially all of the balances at December 31, 2022, 2021 and 2020 would benefit the effective tax rate.

The Company accrues interest on unrecognized tax benefits as a component of interest expense. Penalties, if incurred, are recognized as a component of income tax expense. The Company had approximately \$ 29 million and \$ 21 million accrued for the payment of estimated interest and penalties associated with unrecognized tax benefits at December 31, 2022 and 2021, respectively.

The Company is currently subject to audits in the United States and other taxing jurisdictions around the world. Generally, tax years 2009 through 2021 remain open and subject to examination by the relevant tax authorities. The Company frequently faces challenges regarding the amount of taxes due. These challenges include positions taken by the Company related to the timing, nature, and amount of deductions and the allocation of income among various tax jurisdictions. Pending audit settlements and the expiration of statute of limitations could reduce the uncertain tax positions by \$ 28 million during the next twelve months.

The Company provides for foreign withholding taxes and any applicable U.S. state income taxes on earnings intended to be repatriated from non-U.S. subsidiaries, which we believe will be limited in the future to each year's current earnings. No provision for these taxes on approximately \$ 1.9 billion of undistributed earnings of non-U.S. subsidiaries as of December 31, 2022 has been made, as these earnings are considered indefinitely invested. Determination of the amount of taxes that might be paid on these undistributed earnings if eventually remitted in a taxable manner is not practicable.

If management decided to monetize the Company's foreign investments, we would recognize the tax cost related to the excess of the book value over the tax basis of those investments. This would include foreign withholding taxes and any applicable U.S. Federal and state income taxes. Determination of the tax cost that would be incurred upon monetization of the Company's foreign investments is not practicable; however, we do not believe it would be material.

The following details the scheduled expiration dates of the Company's net operating loss and income tax credit carryforwards:

<i>In millions</i>	2023	2033				
	Through	Through	2032	2042	Indefinite	Total
U.S. federal and non-U.S. NOLs	\$ 1	\$ 95	\$ 422	\$ 518		
State taxing jurisdiction NOLs (a)	43	7	—	—	50	
U.S. federal, non-U.S. and state tax credit carryforwards						
(a)	70	8	97	175		
Total	\$ 114	\$ 110	\$ 519	\$ 743		
Less: valuation allowance (a)	(50)	(89)	(463)	(602)		
Total, net	\$ 64	\$ 21	\$ 56	\$ 141		

(a) State amounts are presented net of federal benefit.

[NOTE 14 COMMITMENTS AND CONTINGENT LIABILITIES](#)

GUARANTEES

In connection with sales of businesses, property, equipment, forestlands and other assets, International Paper commonly makes representations and warranties relating to such businesses or assets, and may agree to indemnify buyers with respect to tax and environmental liabilities, breaches of representations and warranties, and other matters. Where liabilities for such matters are determined to be probable and reasonably estimable, accrued liabilities are recorded at the time of sale as a cost of the transaction.

Brazil Goodwill Tax Matter: The Brazilian Federal Revenue Service has challenged the deductibility of goodwill amortization generated in a 2007 acquisition by Sylvamo do Brasil Ltda. ("Sylvamo Brazil"), a wholly-owned subsidiary of the Company, until the October 1, 2021 spin-off of the Printing Papers business after which it became a subsidiary of Sylvamo. Sylvamo Brazil received assessments for the tax years 2007-2015 totaling approximately \$ 111 million in tax, and \$ 361 million in interest, penalties, and fees as of December 31, 2022 (adjusted for variation in currency exchange rates). After an initial favorable ruling challenging the basis for these

assessments, Sylvamo Brazil received subsequent unfavorable decisions from the Brazilian Administrative Council of Tax Appeals. Sylvamo Brazil has appealed these decisions and intends to appeal any future unfavorable administrative judgments to the Brazilian federal courts; however, this tax litigation matter may take many years to resolve. Sylvamo Brazil and International Paper believe the transaction underlying these assessments was appropriately evaluated, and that Sylvamo Brazil's tax position would be sustained, based on Brazilian tax law.

This matter pertains to a business that was conveyed to Sylvamo as of October 1, 2021, as part of our spin-off transaction. Pursuant to the terms of the tax matters agreement entered into between the Company and Sylvamo, the Company will pay 60 % and Sylvamo will pay 40 %, on up to \$ 300 million of any assessment related to this matter, and the Company will pay all amounts of the assessment over \$ 300 million. Under the terms of the agreement, decisions concerning the conduct of the litigation related to this matter, including strategy, settlement, pursuit and abandonment, will be made by the Company. Sylvamo thus has no control over any decision related to this ongoing litigation. The Company intends to vigorously defend this historic tax position against the current assessments and any similar assessments that may be issued for tax years subsequent to 2015. The Brazilian government may enact a tax amnesty program that would allow Sylvamo Brazil to resolve this dispute for less than the assessed amount. As of October 1, 2021, in connection with the recording of the distribution of assets and liabilities resulting from the spin-off transaction, the Company established a liability representing the initial fair value of the contingent liability under the tax matters agreement. The contingent liability was determined in accordance with ASC 460 "Guarantees" based on the probability weighting of various possible outcomes. The initial fair value estimate and recorded liability as of December 31, 2021 was \$ 48 million and remains this amount at December 31, 2022. This liability will not be increased in subsequent periods unless facts and circumstances change such that an amount greater than the initial recognized liability becomes probable and estimable.

ENVIRONMENTAL AND LEGAL PROCEEDINGS

Environmental

The Company has been named as a potentially responsible party (PRP) in environmental remediation actions under various federal and state laws, including the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Many of these proceedings involve the

cleanup of hazardous substances at large commercial landfills that received waste from many different sources. While joint and several liability is authorized under CERCLA and equivalent state laws, as a practical matter, liability for CERCLA cleanups is typically allocated among the many PRPs. There are other remediation costs typically associated with the cleanup of hazardous substances at the Company's current, closed and formerly-owned facilities, and recorded as liabilities in the balance sheet.

Remediation costs are recorded in the consolidated financial statements when they become probable and reasonably estimable. International Paper has estimated the probable liability associated with these environmental remediation matters, including those described herein, to be approximately \$ 243 million (\$ 251 million undiscounted) in the aggregate as of December 31, 2022. Other than as described below, completion of required environmental remedial actions is not expected to have a material effect on our consolidated financial statements.

Cass Lake: One of the matters included above arises out of a closed wood-treatment facility located in Cass Lake, Minnesota. In June 2011, the United States Environmental Protection Agency (EPA) selected and published a proposed soil remedy at the site with an estimated cost of \$ 46 million. In April 2020, the EPA issued a final plan concerning cleanup standards at a portion of the site, the estimated cost of which is included within the soil remedy referenced above.

Kalamazoo River: The Company is a PRP with respect to the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site in Michigan. The EPA asserts that the site is contaminated by polychlorinated biphenyls (PCBs) primarily as a result of discharges from various paper mills located along the Kalamazoo River, including a paper mill formerly owned by St. Regis Paper Company (St. Regis). The Company is a successor in interest to St. Regis.

- **Operable Unit 5, Area 1:** In March 2016, the Company and other PRPs received a special notice letter from the EPA (i) inviting participation in implementing a remedy for a portion of the site known as Operable Unit 5, Area 1, and (ii) demanding reimbursement of EPA past costs totaling \$ 37 million, including \$ 19 million in past costs previously demanded by the EPA. The Company responded to the special notice letter. In December 2016, the EPA issued a unilateral administrative order to the Company and other PRPs to perform the remedy. The Company responded to the unilateral administrative order,

agreeing to comply with the order subject to its sufficient cause defenses.

- Operable Unit 1: In October 2016, the Company and another PRP received a special notice letter from the EPA inviting participation in the remedial design (RD) component of the landfill remedy for the Allied Paper Mill, which is also known as Operable Unit 1. The Record of Decision (ROD) establishing the final landfill remedy for the Allied Paper Mill was issued by the EPA in September 2016. The Company responded to the Allied Paper Mill special notice letter in December 2016. In February 2017, the EPA informed the Company that it would make other arrangements for the performance of the RD. In the summer 2021, remedial action (RA) activities were initiated by the EPA. In October 2022, the Company received a unilateral administrative order to perform the RA. As a result, the Company increased its reserve by \$ 27 million in the fourth quarter of 2022. The total reserve for the Kalamazoo River superfund site was \$ 37 million and \$ 13 million as of December 31, 2022 and 2021, respectively.

In addition, in December 2019, the United States published notice in the Federal Register of a proposed consent decree with NCR Corporation (one of the parties to the allocation/apportionment litigation described below), the State of Michigan and natural resource trustees under which NCR would make payments of more than \$ 100 million and perform work in Operable Unit 5, Areas 2, 3, and 4 at an estimated cost of \$ 136 million. In December 2020, the Federal District Court approved the proposed consent decree.

The Company's CERCLA liability has not been finally determined with respect to these or any other portions of the site, and except as noted above, the Company has declined to perform any work or reimburse the EPA at this time. As noted below, the Company is involved in allocation/apportionment litigation with regard to the site. Accordingly, it is premature to predict the outcome or estimate our maximum reasonably possible loss or range of loss with respect to this site. We have recorded a liability for future remediation costs at the site that are probable and reasonably estimable, and it remains reasonably possible that additional losses in excess of this recorded liability could be material.

The Company was named as a defendant by Georgia-Pacific Consumer Products LP, Fort James Corporation and Georgia Pacific LLC (collectively GP) in a contribution and cost recovery action for alleged pollution at the site. NCR Corporation and Weyerhaeuser Company are also named as defendants in the suit. The suit seeks contribution

under CERCLA for costs purportedly expended by plaintiffs (\$ 79 million as of the filing of the complaint) and for future remediation costs. In June 2018, the Court issued its Final Judgment and Order, which fixed the past cost amount at approximately \$ 50 million (plus interest to be determined) and allocated to the Company a 15 % share of responsibility for those past costs. The Court did not address responsibility for future costs in its decision. In July 2018, the Company and each of the other parties filed notices appealing the Final Judgment and prior orders incorporated into that Judgment. On April 25, 2022, the appellate court reversed the Judgment of the Court, finding that the suit against the Company was time-barred by the applicable statute of limitations. On May 9, 2022, GP filed a petition for remaining with the Sixth Circuit Court of Appeals. The Sixth Circuit issued an order denying GP's petition on July 14, 2022. On November 14, 2022, GP filed a petition for writ of certiorari with the U.S. Supreme Court. The Company has filed a brief in opposition to this writ.

Harris County: International Paper and McGinnis Industrial Maintenance Corporation (MIMC), a subsidiary of Waste Management, Inc. (WMI), are PRPs at the San Jacinto River Waste Pits Superfund Site in Harris County, Texas. The PRPs have been actively participating in the activities at the site and share the costs of these activities.

In October 2017, the EPA issued a ROD selecting the final remedy for the site: removal and relocation of the waste material from both the northern and southern impoundments. The EPA did not specify the methods or practices needed to perform this work. The EPA's selected remedy was accompanied by a cost estimate of approximately \$ 115 million (\$ 105 million for the northern impoundment, and \$ 10 million for the southern impoundment). Subsequent to the issuance of the ROD, there have been numerous meetings between the EPA and the PRPs, and the Company continues to work with the EPA and MIMC/WMI to develop the remedial design.

To this end, in April 2018, the PRPs entered into an Administrative Order on Consent (AOC) with the EPA, agreeing to work together to develop the remedial design for the northern impoundment. That remedial design work is ongoing. The AOC does not include any agreement to perform waste removal or other construction activity at the site. Rather, it involves adaptive management techniques and a pre-design investigation, the objectives of which include filling data gaps (including but not limited to post-Hurricane Harvey technical data generated prior to the ROD and not incorporated into the selected remedy), refining areas and volumes of materials to be

addressed, determining if an excavation remedy is able to be implemented in a manner protective of human health and the environment, and investigating potential impacts of remediation activities to infrastructure in the vicinity.

During the first quarter of 2020, through a series of meetings among the Company, MIMC/WMI, our consultants, the EPA and the Texas Commission on Environmental Quality (TCEQ), progress was made to resolve key technical issues previously preventing the Company from determining the manner in which the selected remedy for the northern impoundment would be feasibly implemented. As a result of these developments the Company reserved the following amounts in relation to remediation at this site: (a) \$ 10 million for the southern impoundment; and (b) \$ 55 million for the northern impoundment, which represents the Company's 50 % share of our estimate of the low end of the range of probable remediation costs.

We submitted the Final Design Package for the southern impoundment to the EPA, and the EPA approved this plan May 7, 2021. The EPA issued a Unilateral Administrative Order for Remedial Action of the southern impoundment on August 5, 2021. An addendum to the Final 100% Remedial Design (Amended April 2021) was submitted to the EPA for the southern impoundment on June 2, 2022. This addendum incorporated additional data collected to date which indicated that additional waste material removal will be required, lengthening the time to complete the remedial action. The Company's estimated cost for the Southern impoundment remedial action as of December 31, 2022 was \$ 25 million.

With respect to the northern impoundment, the respondents submitted the final component of the 90% remedial design to the EPA on November 8, 2022. Upon submittal of the final component, an updated engineering estimate was developed and the Company increased the reserved amount by approximately \$ 21 million, which represents the Company's 50% share of our estimate of the low end of the range of probable remediation costs. While several key technical issues have been resolved, respondents still face significant challenges remediating this area in a cost-efficient manner and without a release to the environment, and therefore our discussions with the EPA on the best approach to remediation will continue. Because of ongoing questions regarding cost effectiveness, timing and gathering other technical data, additional losses in excess of our recorded liability are possible. The total reserve for the southern and northern impoundment was \$ 95 million and \$ 60 million as of December 31, 2022 and 2021, respectively.

Asbestos-Related Matters

We have been named as a defendant in various asbestos-related personal injury litigation, in both state and federal court, primarily in relation to the prior operations of certain companies previously acquired by the Company. As of December 31, 2022, the Company's total recorded liability with respect to pending and future asbestos-related claims was \$ 105 million, net of estimated insurance recoveries. While it is reasonably possible that the Company may incur losses in excess of its recorded liability with respect to asbestos-related matters, we are unable to estimate any loss or range of loss in excess of such liability, and do not believe additional material losses are probable.

Antitrust

In March 2017, the Italian Competition Authority (ICA) commenced an investigation into the Italian packaging industry to determine whether producers of corrugated sheets and boxes violated the applicable European competition law. In April 2019, the ICA concluded its investigation and issued initial findings alleging that over 30 producers, including our Italian packaging subsidiary (IP Italy), improperly coordinated the production and sale of corrugated sheets and boxes. On August 6, 2019, the ICA issued its decision and assessed IP Italy a fine of € 29 million (approximately \$ 31 million at current exchange rates) which was recorded in the third quarter of 2019. We appealed the ICA decision and our appeal was denied on May 25, 2021. However, we continue to believe we have numerous and strong bases to challenge the ICA decision, and we have further appealed the decision to the Italian Council of State.

General

The Company is involved in various other inquiries, administrative proceedings and litigation relating to environmental and safety matters, personal injury, product liability, labor and employment, contracts, sales of property, intellectual property, tax, and other matters, some of which allege substantial monetary damages. See [Note 13](#) for details regarding a tax matter. Assessments of lawsuits and claims can involve a series of complex judgments about future events, can rely heavily on estimates and assumptions, and are otherwise subject to significant uncertainties. As a result, there can be no certainty that the Company will not ultimately incur charges in excess of presently recorded liabilities. The Company believes that loss contingencies arising from pending matters including the matters described herein, will not have a material effect on the consolidated financial position or liquidity of the Company. However, in light of the inherent uncertainties involved in pending or threatened legal matters, some

of which are beyond the Company's control, and the large or indeterminate damages sought in some of these matters, a future adverse ruling, settlement, unfavorable development, or increase in accruals with respect to these matters could result in future charges that could be material to the Company's results of operations or cash flows in any particular reporting period.

Taxes Other Than Payroll and Income Taxes

In 2017, the Brazilian Federal Supreme Court decided that the state value-added tax (VAT) should not be included in the basis of federal VAT calculations. In 2018 and 2019, the Brazilian tax authorities published both an internal consultation and a normative ruling with a narrow interpretation of the effects of the case. Based upon the best information available to us at that time, we determined an estimated refund was probable of being realized. As of March 31, 2021, we had recognized a receivable of \$ 11 million based upon the authority's narrow interpretation. On May 13, 2021, the Brazilian Federal Supreme Court ruled again on the case. This ruling provides a much broader definition of the state VAT, which increased the exclusion amount from the Federal VAT calculations. Therefore, we recognized an additional receivable of \$ 70 million during the three months ended June 30, 2021, which brought the total receivable to \$ 81 million as of June 30, 2021. The \$ 70 million of income recognized during the second quarter of 2021 included income of \$ 42 million and income of \$ 28 million of net interest expense and is recorded in Discontinued Operations, net of taxes, in the accompanying consolidated statement of operations. A portion of this receivable has been consumed by offsetting various taxes payable leaving a remaining receivable of \$ 48 million. This remaining receivable was conveyed to Sylvamo Corporation on of October 1, 2021, as part of our spin-off transaction.

NOTE 15 VARIABLE INTEREST ENTITIES

In connection with the acquisition of Temple-Inland in February 2012, two special purpose entities became wholly-owned subsidiaries of International Paper. The use of the two wholly-owned special purpose entities discussed below preserved the tax deferral that resulted from the 2007 Temple-Inland timberlands sales. As of December 31, 2022, this deferred tax liability was \$ 485 million, which will be settled with the maturity of the notes in 2027.

In October 2007, Temple-Inland sold 1.55 million acres of timberland for \$ 2.4 billion. The total consideration consisted almost entirely of notes due in 2027 issued by the buyer of the timberland, which Temple-Inland contributed to two wholly-owned,

bankruptcy-remote special purpose entities. The notes are shown in Long-term financial assets of variable interest entities in the accompanying consolidated balance sheet and are supported by \$ 2.4 billion of irrevocable letters of credit issued by three banks, which are required to maintain minimum credit ratings on their long-term debt.

In December 2007, Temple-Inland's two wholly-owned special purpose entities borrowed \$ 2.1 billion which is shown in Long-term nonrecourse financial liabilities of variable interest entities. The loans are repayable in 2027 and are secured by the \$ 2.4 billion of notes and the irrevocable letters of credit securing the notes, and are nonrecourse to us. The loan agreements provide that if a credit rating of any of the banks issuing the letters of credit is downgraded below the specified threshold, the letters of credit issued by that bank must be replaced within 30 days with letters of credit from another qualifying financial institution.

As of both December 31, 2022 and 2021, the fair value of the notes receivable was \$ 2.3 billion. As of both December 31, 2022 and 2021, the fair value of this debt was \$ 2.1 billion. The notes receivable and debt are classified as Level 2 within the fair value hierarchy, which is further defined in [Note 17](#).

Activity between the Company and the 2007 financing entities was as follows:

<i>In millions</i>	2022	2021	2020
Revenue (a)	\$ 65	\$ 24	\$ 41
Expense (b)	58	24	43
Cash receipts (c)	28	5	29
Cash payments (d)	40	16	40

(a) The revenue is included in Interest expense, net, in the accompanying consolidated statement of operations and includes approximately \$ 19 million for the years ended December 31, 2022, 2021 and 2020, respectively, of accretion income for the amortization of the purchase accounting adjustment on the Financial assets of variable interest entities.

(b) The expense is included in Interest expense, net, in the accompanying consolidated statement of operations and includes approximately \$ 7 million for the years ended December 31, 2022, 2021 and 2020 respectively, of accretion expense for the amortization of the purchase accounting adjustment on the Long-term nonrecourse financial liabilities of variable interest entities.

(c) The cash receipts are interest received on the Financial assets of special purpose entities.

(d) The cash payments are interest paid on Nonrecourse financial liabilities of special purpose entities.

In connection with the 2006 sale of approximately 5.6 million acres of forestlands, International Paper received installment notes (the "Timber Notes") totaling approximately \$ 4.8 billion. The Timber Notes were used as collateral for borrowings from third party

lenders, which effectively monetized the Timber Notes through the creation of newly formed special purposes entities (the "Entities"). The monetization structure preserved the tax deferral that resulted from the 2006 forestlands sales. During 2015, International Paper initiated a series of actions in order to extend the 2006 monetization structure and maintain the long-term nature of the deferred tax liability. The Entities, with assets and liabilities primarily consisting of the Timber Notes and third-party bank loans (the "Extension Loans"), were restructured which resulted in the formation of wholly-owned, bankruptcy-remote special purpose entities (the "2015 Financing Entities").

In August 2021, the Timber Notes of \$ 4.8 billion and the Extension Loans of \$ 4.2 billion related to the 2015 Financing Entities both matured. We settled the Extension Loans at their maturity with the proceeds from the Timber Notes. This resulted in cash proceeds of approximately \$ 630 million representing our equity in the variable interest entities. Maturity of the installment notes and termination of the monetization structure also resulted in a \$ 72 million tax liability that was paid in the fourth quarter of 2021.

On September 2, 2022, the Company and the Internal Revenue Service agreed to settle the previously disclosed timber monetization restructuring tax matter. Under this agreement, the Company will fully resolve the matter and pay \$ 252 million in U.S. federal income taxes. As a result, interest will also be charged upon closing of the audit. The amount of interest expense recognized through December 31, 2022 is \$ 58 million. As of December 31, 2022, \$ 89 million in U.S. federal income taxes and \$ 28 million in interest expense have been paid as a result of the settlement agreement. The remaining \$ 163 million U.S. federal income tax liability and \$ 30 million accrued interest liability are recorded as current liabilities in the balance sheet. As part of the settlement with the Internal Revenue Service, the \$ 72 million tax payment discussed in the preceding paragraph was applied to the 2022 U.S. federal estimated tax payments. The reversal of the Company's remaining deferred tax liability associated with the 2015 Financing Entities of \$ 604 million was recognized as a one-time tax benefit in the third quarter of 2022.

Activity between the Company and the 2015 Financing Entities for the years ended December 31, 2021 and 2020 was as follows:

<i>In millions</i>	2021	2020
Revenue (a)	\$ 61	\$ 95
Expense (a)	34	122
Cash receipts (b)	95	95
Cash payments (c)	38	157

(a) The revenue and expense are included in Interest expense, net in the accompanying consolidated statement of operations.

(b) The cash receipts are interest received on the Financial assets of variable interest entities.

(c) The cash payments represent interest paid on Current nonrecourse financial liabilities of variable interest entities.

NOTE 16 DEBT AND LINES OF CREDIT

Amounts related to early debt extinguishment during the years ended December 31, 2022, 2021 and 2020 were as follows:

<i>In millions</i>	2022	2021	2020
Early debt reductions (a)	\$ 503	\$ 2,472	\$ 1,640
Pre-tax early debt extinguishment costs (b)	93	461	196

(a) Reductions related to notes with interest rates ranging from 3.00 % to 8.70 % with original maturities from 2021 to 2048 for the years ended December 31, 2022, 2021 and 2020.

(b) Amounts are included in Restructuring and other charges in the accompanying consolidated statements of operations.

The Company's early debt reductions in 2022 included a debt tender of \$ 498 million with interest rates ranging from 6.40 % to 8.70 % and maturity dates ranging from 2023 to 2039. In addition, in 2022, the Company had \$ 5 million in open market repurchases related to debt with interest rates ranging from 4.35 % to 4.40 % and maturity dates ranging from 2047 to 2048. In addition to the early debt reductions, the Company had debt reductions of \$ 514 million in 2022 related primarily to capital leases, debt maturities, and international debt.

During the second quarter of 2022, the Company borrowed approximately \$ 144 million under a term loan credit agreement with a third party lender. Subsequently, the Company exchanged 4,132,000 shares of Sylvamo common stock owned by the Company in exchange and as repayment of the approximately \$ 144 million term loan obligation.

During the third quarter of 2022, the Company borrowed approximately \$ 210 million under a term loan credit agreement with a third party lender. Subsequently, the Company repaid \$ 167 million of the term loan with an exchange of 4,614,358 shares of Sylvamo common stock owned by the Company. The remainder of the term loan was repaid with cash.

During the first quarter of 2022, the Company issued approximately \$ 88 million of debt with an interest rate of 2.65 % and a maturity date of 2027. The proceeds from this issuance were used to repay approximately \$ 88 million of outstanding debt that matured on April 1, 2022. During the third quarter of 2022, the Company issued approximately \$ 50 million of debt with a variable rate of interest and a maturity date of 2027. During the fourth quarter of 2022, the Company issued \$ 110 million of debt with a variable rate of interest and a maturity date of 2027.

In January 2023, the Company entered into a variable term loan agreement providing for a \$ 600 million term loan which was fully drawn on the date of such loan agreement and matures in 2028. The \$ 600 million debt was issued following the repayment of \$ 410 million of commercial paper earlier in 2023 and will be used to repay debt maturing later in 2023 and general corporate purposes.

The Company had debt issuances in 2021 of \$ 1.5 billion related primarily to Sylvamo debt issuances as discussed further in [Note 8 - Divestitures](#).

The borrowing capacity of the Company's commercial paper program is \$ 1.0 billion supported by its \$ 1.5 billion credit agreement. In June 2021, the Company extended the maturity date of the \$ 1.5 billion credit facility from December 2022 to June 2026. Under the terms of this program, individual maturities on borrowings may vary, but not exceed one year from the date of issue. Interest bearing notes may be issued either as fixed or floating rate notes. The Company had \$ 410 million borrowings outstanding as of December 31, 2022 and no borrowings outstanding as of December 31, 2021 under this program.

The liquidity facilities also previously included up to \$ 550 million of uncommitted financings based on eligible receivables balances under a receivables securitization program that had an expiration date in April 2022. The receivables securitization program was renewed on April 27, 2022 with up to \$ 500 million of uncommitted financings based on eligible receivables balances with the expiration date in April 2024. As of December 31, 2022 and December 31, 2021, the Company had no borrowings outstanding under the program.

A summary of long-term debt follows:

<i>In millions at December 31</i>	2022	2021
6.875 % notes – due 2023	87	94
7.350 % notes – due 2025	39	44
7.750 % notes – due 2025	22	31
7.200 % notes – due 2026	58	58
6.400 % notes – due 2026	5	5
7.150 % notes – due 2027	7	7
6.875 % notes – due 2029	10	37
5.000 % notes – due 2035	407	407
6.650 % notes – due 2037	3	4
8.700 % notes – due 2038	86	265
7.300 % notes – due 2039	453	722
6.000 % notes – due 2041	585	585
4.800 % notes – due 2044	686	686
5.150 % notes – due 2046	449	449
4.400 % notes – due 2047	647	648
4.350 % notes – due 2048	740	744
Floating rate notes – due 2023 – 2027 (a)	732	222
Environmental and industrial development bonds – due 2023 – 2028 (b)	489	489
Total principal	5,505	5,497
Capitalized leases	59	66
Premiums, discounts, and debt issuance costs	(42)	(48)
Terminated interest rate swaps	55	58
Other (c)	2	6
Total (d)	5,579	5,579
Less: current maturities	763	196
Long-term debt	\$ 4,816	\$ 5,383

(a) The weighted average interest rate on these notes was 4.6 % in 2022 and 1.4 % in 2021.

(b) The weighted average interest rate on these bonds was 2.4 % in 2022 and 3.2 % in 2021.

(c) Includes \$ 0 million and \$ 1 million of fair market value adjustments as of December 31, 2022 and 2021, respectively.

(d) The fair market value was approximately \$ 5.2 billion at December 31, 2022 and \$ 7.1 billion at December 31, 2021. Debt fair value measurements use Level 2 inputs.

At December 31, 2022, contractual obligations for future payments of debt maturities (including finance lease liabilities disclosed in [Note 10 - Leases](#) and excluding the timber monetization structures disclosed in [Note 15 - Variable Interest Entities](#)) by calendar year were as follows over the next five years: 2023 – \$ 763 million; 2024 – \$ 148 million; 2025 – \$ 191 million; 2026 – \$ 72 million; and 2027 – \$ 298 million.

The Company's financial covenants require the maintenance of a minimum net worth, as defined in our debt agreements, of \$ 9 billion and a total debt-to-capital ratio of less than 60 %. Net worth is defined as the sum of common stock, paid-in capital and retained earnings, less treasury stock plus any cumulative goodwill impairment charges. The calculation also excludes accumulated other comprehensive income/loss and both the current and long-term Nonrecourse Financial Liabilities of Variable Interest Entities. The total debt-to-capital ratio is defined as total debt divided by the sum of total debt plus net worth. As of December 31, 2022, we were in compliance with our debt covenants.

NOTE 17 DERIVATIVES AND HEDGING ACTIVITIES

International Paper periodically uses derivatives and other financial instruments to hedge exposures to interest rate, commodity and currency risks. International Paper does not hold or issue financial instruments for trading purposes. For hedges that meet the hedge accounting criteria at inception, International Paper formally designates and documents the instrument as a fair value hedge, a cash flow hedge or a net investment hedge of a specific underlying exposure.

INTEREST RATE RISK MANAGEMENT

Our policy is to manage interest cost using a mixture of fixed-rate and variable-rate debt. To manage this risk in a cost-efficient manner, we enter into interest rate swaps whereby we agree to exchange with the counterparty, at specified intervals, the difference between fixed and variable interest amounts calculated by reference to a notional amount.

Interest rate swaps that meet specific accounting criteria are accounted for as fair value or cash flow hedges. For fair value hedges, the changes in the fair value of both the hedging instruments and the underlying debt obligations are immediately recognized in interest expense. For cash flow hedges, the effective portion of the changes in the fair value of the hedging instrument is reported in AOCI and reclassified into interest expense over the life of the underlying debt. The ineffective portion for both cash flow and fair value hedges, which is not material for any year presented, is immediately recognized in earnings.

FOREIGN CURRENCY RISK MANAGEMENT

We manufacture and sell our products and finance operations in a number of countries throughout the world and, as a result, are exposed to movements in foreign currency exchange rates. The purpose of our foreign currency hedging program is to manage the

volatility associated with the changes in exchange rates.

To manage this exchange rate risk, we have historically utilized a combination of forward contracts, options and currency swaps. Contracts that qualify are designated as cash flow hedges of certain forecasted transactions denominated in foreign currencies or net investment hedges of foreign denominated subsidiaries. For cash flow hedges, the effective portion of the changes in fair value of these instruments is reported in AOCI and reclassified into earnings in the same financial statement line item and in the same period or periods during which the related hedged transactions affect earnings. The ineffective portion, which is not material for any year presented, is immediately recognized in earnings. For net investment hedges, all changes in the fair value of these instruments are recorded in AOCI, offsetting the currency translation adjustment of the related investment that is also recorded in AOCI.

The change in value of certain non-qualifying instruments used to manage foreign exchange exposure of intercompany financing transactions and certain balance sheet items subject to revaluation is immediately recognized in earnings, substantially offsetting the foreign currency mark-to-market impact of the related exposure.

COMMODITY RISK MANAGEMENT

Certain raw materials used in our production processes are subject to price volatility caused by weather, supply conditions, political and economic variables and other unpredictable factors. To manage the volatility in earnings due to price fluctuations, we may utilize swap contracts or forward purchase contracts.

Derivative instruments are reported in the consolidated balance sheets at their fair values, unless the derivative instruments qualify for the normal purchase normal sale ("NPNS") exception under GAAP and such exception has been elected. If the NPNS exception is elected, the fair values of such contracts are not recognized on the balance sheet.

Contracts that qualify are designated as cash flow hedges of forecasted commodity purchases. The effective portion of the changes in fair value for these instruments is reported in AOCI and reclassified into earnings in the same financial statement line item and in the same period or periods during which the hedged transactions affect earnings. The ineffective and non-qualifying portions, which are not material for any year presented, are immediately recognized in earnings. The change in the fair value of certain non-

qualifying instruments used to reduce commodity price volatility is immediately recognized in earnings.

The notional amounts of qualifying and non-qualifying instruments used in hedging transactions were as follows:

In millions	December 31, 2022	December 31, 2021
Derivatives Not Designated as Hedging Instruments:		
Electricity contract (MWh)	0.2	0.5

The following table shows gains or losses recognized in AOCI, net of tax, related to derivative instruments:

In millions	2022	2021	2020
Derivatives in Cash Flow Hedging Relationships:			
Foreign exchange contracts			
Interest rate contracts	—	\$ 3	(\$ 34)
Derivatives in Net Investment Hedging Relationships:			
Foreign exchange contracts			
Interest rate contracts	—	—	25
Total	\$ —	\$ 18	\$ 25

During the next 12 months, none of the December 31, 2022 AOCI balance, after tax, is expected to be reclassified to earnings.

The amounts of gains and losses recognized in the consolidated statement of operations on qualifying and non-qualifying financial instruments used in hedging transactions were as follows:

In millions	2022	2021	2020	Location of Gain (Loss)
				Reclassified from AOCI into Income (Effective Portion)
Derivatives in Cash Flow Hedging Relationships:				
Foreign exchange contracts	\$ —	\$ 10	\$ (25)	Cost of products sold and Discontinued operations, net of taxes
Interest rate contracts	(2)	(1)	(1)	Interest expense, net
Total	\$ (2)	\$ 9	\$ (26)	

In millions	2022	2021	2020	Location of Gain (Loss) in Consolidated Statement of Operations
				Recognized in Income
Derivatives in Fair Value Hedging Relationships:				
Interest rate contracts	\$ —	\$ —	\$ 38	Interest expense, net
Debt	—	—	(38)	Interest expense, net
Total	\$ —	\$ —	\$ —	
Derivatives in Net Investment Hedging Relationships:				
Foreign exchange contracts	\$ —	\$ —	\$ 2	Net (gains) losses on sales and impairments of businesses
Total	\$ —	\$ —	\$ 2	
Derivatives Not Designated as Hedging Instruments:				
Electricity Contracts	\$ 26	\$ 15	\$ (2)	Cost of products sold
Foreign exchange contracts	—	(2)	—	Cost of products sold
Total	\$ 26	\$ 13	\$ (2)	

Fair Value Measurements

International Paper's financial assets and liabilities that are recorded at fair value consist of derivative contracts, including interest rate swaps, foreign currency forward contracts, options and other financial instruments that are used to hedge exposures to interest rate, commodity and currency risks. For these financial instruments, fair value is determined at each balance sheet date using an income approach. All of International Paper's derivative fair value measurements use Level 2 inputs.

Below is a description of the valuation calculation and the inputs used for each class of contract:

Interest Rate Contracts

Interest rate contracts are valued using swap curves obtained from an independent market data provider.

The market value of each contract is the sum of the fair value of all future interest payments between the contract counterparties, discounted to present value.

The fair value of the future interest payments is determined by comparing the contract rate to the derived forward interest rate and present valued using the appropriate derived interest rate curve.

Foreign Exchange Contracts

Foreign currency forward and option contracts are valued using standard valuation models. Significant inputs used in these standard valuation models are foreign currency forward and interest rate curves and a volatility measurement. The fair value of each contract is present valued using the applicable interest rate. All significant inputs are readily available in public markets, or can be derived from observable market transactions.

Electricity Contract

The Company is party to an electricity contract used to manage market fluctuations in energy pricing. The Company's electricity contract is valued using the Mid-C index forward curve obtained from the Intercontinental Exchange. The market value of the contract is the sum of the fair value of all future purchase payments between the contract counterparties, discounted to present value. The fair value of the future purchase payments is determined by comparing the contract price to the forward price and present valued using International Paper's cost of capital.

Since the volume and level of activity of the markets that each of the above contracts are traded in has been normal, the fair value calculations have not been adjusted for inactive markets or disorderly transactions.

The following table provides a summary of the impact of our derivative instruments in the consolidated balance sheet:

Fair Value Measurements
Level 2 – Significant Other Observable Inputs

<i>In millions</i>	Assets	
	December 31, 2022	December 31, 2021
Derivatives not designated as hedging instruments		
Electricity contract	\$ 20 (a)	\$ 10 (b)

(a) *Includes \$ 20 million recorded in Other current assets in the accompanying consolidated balance sheet.*

(b) *Included \$ 6 million recorded in Other current assets and \$ 4 million in Deferred charges and other assets recorded in the accompanying consolidated balance sheet.*

The above contracts are subject to enforceable master netting arrangements that provide rights of offset with each counterparty when amounts are payable on the same date in the same currency or in the case of certain specified defaults. Management has made an accounting policy election to not offset the fair value of recognized derivative assets and derivative liabilities in the consolidated balance sheet. The amounts owed to the counterparties and owed to the Company are considered immaterial with respect to each counterparty and in the aggregate with all counterparties.

Credit-Risk-Related Contingent Features

International Paper evaluates credit risk by monitoring its exposure with each counterparty to ensure that exposure stays within acceptable policy limits. Credit risk is also mitigated by contractual provisions with the majority of our banks. Certain of the contracts include a credit support annex that requires the posting of collateral by the counterparty or International Paper based on each party's rating and level of exposure. Based on the Company's current credit rating, the collateral threshold is generally \$ 15 million.

If the lower of the Company's credit rating by Moody's or S&P were to drop below investment grade, the Company would be required to post collateral for all of its derivatives in a net liability position, although no derivatives would terminate. There were no derivative instruments containing credit-risk-related contingent

features in a net liability position as of December 31, 2022 and December 31, 2021. The Company was not required to post any collateral as of December 31, 2022 or 2021.

NOTE 18 CAPITAL STOCK

The authorized capital stock at both December 31, 2022 and 2021, consisted of 990,850,000 shares of common stock, \$1 par value; 400,000 shares of cumulative \$4 preferred stock, without par value (stated value \$100 per share); and 8,750,000 shares of serial preferred stock, \$1 par value. The serial preferred stock is issuable in one or more series by the Board of Directors without further shareholder action.

The following is a rollforward of shares of common stock for the three years ended December 31, 2022, 2021 and 2020:

Common Stock		
In thousands	Issued	Treasury
Balance at January 1, 2020	448,916	56,800
Issuance of stock for various plans, net	—	(2,010)
Repurchase of stock	—	1,027
Balance at December 31, 2020	448,916	55,817
Issuance of stock for various plans, net	—	(1,855)
Repurchase of stock	—	16,400
Balance at December 31, 2021	448,916	70,362
Issuance of stock for various plans, net	—	(1,569)
Repurchase of stock	—	29,839
Balance at December 31, 2022	448,916	98,632

NOTE 19 RETIREMENT PLANS

International Paper sponsors and maintains the Retirement Plan of International Paper Company (the "Pension Plan"), a tax-qualified defined benefit pension plan that provides retirement benefits to certain employees.

The Pension Plan provides defined pension benefits based on years of credited service and either final average earnings (salaried employees and hourly employees receiving salaried benefits), hourly job rates or specified benefit rates (hourly and union employees).

The Company also has two unfunded nonqualified defined benefit pension plans: a Pension Restoration Plan that provides retirement benefits based on eligible compensation in excess of limits set by the Internal Revenue Service, and a supplemental retirement plan for senior managers ("SERP"), which is an alternative retirement plan for salaried employees who are senior vice presidents and above or who are designated by the chief executive officer as participants. These nonqualified plans are only funded to the extent of benefits paid, which totaled \$29 million, \$21 million and \$31 million in 2022, 2021 and 2020, respectively, and which are expected to be \$22 million in 2023.

Effective January 1, 2019, the Company froze participation, including credited service and compensation, for salaried employees under the Pension Plan, the Pension Restoration Plan and the SERP plan. This change does not affect benefits accrued through December 31, 2018. For service after December 31, 2018, employees affected by the freeze receive a company contribution to their individual Retirement Savings Account as described later in this [Note 19](#).

Many non-U.S. employees are covered by various retirement benefit arrangements, some of which are considered to be defined benefit pension plans for accounting purposes.

In advance of the spin-off of the Printing Papers segment into a standalone, publicly-traded company, Sylvamo, a legally separate Sylvamo Pension Plan was established to transfer both pension liabilities and qualified pension assets for the approximately 900 active pension participants who transitioned to Sylvamo. Effective September 1, 2021, the Retirement Plan of International Paper ("IP Pension Plan") and the Sylvamo Pension Plan were legally separated and remeasured as of that date. The remeasurement resulted in a net asset balance of \$520 million for the IP Pension Plan, which has been classified as part of the Pension Assets balance on the Consolidated Balance Sheet. Based on the September 1, 2021 remeasurement, the IP Pension Plan completed the transfer of approximately \$287 million in projected benefit obligation and approximately \$255 million in pension assets, net of post-spin true-up adjustments, to the Sylvamo Pension Plan.

OBLIGATIONS AND FUNDED STATUS

The following table shows the changes in the benefit obligation and plan assets for 2022 and 2021 and the plans' funded status.

	2022		2021	
<i>In millions</i>	U.S. Plans	Non-U.S. Plans	U.S. Plans	Non-U.S. Plans
Change in projected benefit obligation:				
Benefit obligation, January 1	\$ 11,833	\$ 65	\$ 13,020	\$ 264
Service cost	85	3	100	5
Interest cost	338	2	333	4
Actuarial loss (gain)	(2,863)	(11)	(760)	(11)
Divestitures	—	—	(287)	(187)
Plan amendments	16	—	—	—
Benefits paid	(593)	(2)	(573)	(5)
Effect of foreign currency exchange rate movements	—	(3)	—	(5)
Benefit obligation, December 31	\$ 8,816	\$ 54	\$ 11,833	\$ 65
Change in plan assets:				
Fair value of plan assets, January 1	\$ 12,075	\$ 19	\$ 12,018	\$ 190
Actual return on plan assets	(2,666)	—	864	4
Company contributions	29	2	21	6
Benefits paid	(593)	(2)	(573)	(5)
Divestiture	—	—	(255)	(175)
Effect of foreign currency exchange rate movements	—	(1)	—	(1)
Fair value of plan assets, December 31	\$ 8,845	\$ 18	\$ 12,075	\$ 19
Funded status, December 31	\$ 29	\$ (36)	\$ 242	\$ (46)
Amounts recognized in the consolidated balance sheet:				
Overfunded pension plan assets	\$ 297	\$ —	\$ 595	\$ —
Underfunded pension benefit obligation - current	(22)	(2)	(21)	(1)
Underfunded pension benefit obligation - non-current	(246)	(34)	(332)	(45)
	\$ 29	\$ (36)	\$ 242	\$ (46)
Amounts recognized in accumulated other comprehensive income (loss) under ASC 715 (pre-tax):				
Prior service cost (credit)	\$ 89	\$ —	\$ 95	\$ —
Net actuarial loss (gain)	1,563	(7)	1,199	4
	\$ 1,652	\$ (7)	\$ 1,294	\$ 4

The non-current asset for the qualified plan is included in the accompanying consolidated balance sheet under Overfunded Pension Plan Assets. The non-current portion of the liability is included with the pension liability under Underfunded Pension Benefit Obligation.

The largest contributor to the actuarial gain affecting the benefit obligation was the increase in the discount rate from 2.90 % at December 31, 2021 to 5.40 % at December 31, 2022.

The components of the \$ 357 million and \$(12) million related to U.S. plans and non-U.S. plans, respectively, in the amounts recognized in OCI during 2022 consisted of:

<i>In millions</i>	U.S. Plans	Non-U.S. Plans
Current year actuarial (gain) loss	\$ 451	\$ (10)
Amortization of actuarial loss	(87)	(1)
Current year prior service cost	16	—
Amortization of prior service cost	(23)	—
Effect of foreign currency exchange rate movements	—	(1)
	\$ 357	\$ (12)

The portion of the change in the funded status that was recognized in net periodic benefit cost and OCI for the U.S. plans was \$ 474 million, \$(1.0) billion and \$ 500 million in 2022, 2021 and 2020, respectively. The portion of the change in funded status for the non-U.S. plans was \$(6) million, \$(73) million, and \$ 13 million in 2022, 2021 and 2020, respectively.

The accumulated benefit obligation at December 31, 2022 and 2021 was \$ 8.8 billion and \$ 11.8 billion, respectively, for our U.S. defined benefit plans and \$ 4.6 million and \$ 56 million, respectively, at December 31, 2022 and 2021 for our non-U.S. defined benefit plans.

The following table summarizes information for pension plans with an accumulated benefit obligation in excess of plan assets at December 31, 2022 and 2021:

<i>In millions</i>	2022		2021	
	U.S. Plans	Non-U.S. Plans	U.S. Plans	Non-U.S. Plans
Projected benefit obligation	\$ 268	\$ 54	\$ 353	\$ 65
Accumulated benefit obligation	268	45	353	56
Fair value of plan assets	—	18	—	19

ASC 715, "Compensation – Retirement Benefits" provides for delayed recognition of actuarial gains and losses, including amounts arising from changes in the estimated projected plan benefit obligation due to changes in the assumed discount rate, differences between the actual and expected return on plan assets and other assumption changes. These net gains and losses are recognized prospectively over a period that approximates the average remaining service period of active employees expected to receive benefits under the plans to the extent that they are not offset by gains in subsequent years.

NET PERIODIC PENSION EXPENSE

Service cost is the actuarial present value of benefits attributed by the plans' benefit formula to services rendered by employees during the year. Interest cost represents the increase in the projected benefit obligation, which is a discounted amount, due to the passage of time. The expected return on plan assets reflects the computed amount of current-year earnings from the investment of plan assets using an estimated long-term rate of return.

Net periodic pension expense for qualified and nonqualified U.S. and non-U.S. defined benefit plans comprised the following:

In millions	2022		2021		2020	
	Non-U.S. Plans		Non-U.S. Plans		Non-U.S. Plans	
	U.S. Plans	U.S. Plans	U.S. Plans	U.S. Plans	U.S. Plans	U.S. Plans
Service cost	\$ 85	\$ 3	\$ 100	\$ 5	\$ 85	\$ 5
Interest cost	338	2	333	4	393	6
Expected return on plan assets	(649)	(1)	(705)	(7)	(668)	(8)
Actuarial loss (gain)	87	1	138	2	202	2
Amortization of prior service cost	23	—	22	—	20	—
Curtailment loss (gain)	—	—	—	—	—	(1)
Settlement loss	—	—	—	—	—	1
Net periodic pension (income) expense	\$ (116)	\$ 5	\$ (112)	\$ 4	\$ 32	\$ 5

The components of net periodic pension expense other than the Service cost component are included in Non-operating pension (income) expense in the Consolidated Statement of Operations with the exception of \$(3) million related to Sylvamo participants in 2021 recorded in Discontinued Operations.

The decrease in 2022 pension expense primarily reflects lower asset returns, higher interest cost due to a higher discount rate and lower actuarial loss due to a longer amortization period and lower service cost.

ASSUMPTIONS

International Paper evaluates its actuarial assumptions annually as of December 31 (the measurement date) and considers changes in these long-term factors based upon market conditions and the requirements for employers' accounting for pensions. These assumptions are used to calculate benefit obligations as of December 31 of the current year and pension expense to be recorded in the following year (i.e., the discount rate used to determine the benefit obligation as of December 31, 2022 is also the discount rate used to determine net pension expense for the 2023 year).

Major actuarial assumptions used in determining the benefit obligations and net periodic pension cost for our defined benefit plans are presented in the following table:

	2022		2021		2020	
	U.S. Plans	Non-U.S. Plans	U.S. Plans	Non-U.S. Plans	U.S. Plans	Non-U.S. Plans
Actuarial assumptions used to determine benefit obligations as of December 31:						
Discount rate	5.40 %	5.31 %	2.90 %	2.59 %	2.60 %	2.32 %
Rate of compensation increase	3.00 %	3.36 %	3.00 %	2.92 %	2.25 %	3.66 %
Actuarial assumptions used to determine net periodic pension cost for years ended December 31:						
Discount rate (a)	2.90 %	2.59 %	2.67 %	2.32 %	3.40 %	2.70 %
Expected long-term rate of return on plan assets (a)	6.00 %	3.66 %	6.40 %	4.99 %	7.00 %	4.92 %
Rate of compensation increase	3.00 %	2.92 %	2.25 %	3.66 %	2.25 %	3.62 %

(a) Represents the weighted average rate for the U.S. qualified plans in 2021 due to the spin-off remeasurement..

The expected long-term rate of return on plan assets is based on projected rates of return for current asset classes in the plan's investment portfolio. Projected rates of return are developed through an asset/liability study in which projected returns for each of the plan's asset classes are determined after analyzing historical experience and future expectations of returns and volatility of the various asset classes.

Based on the target asset allocation for each asset class, the overall expected rate of return for the portfolio is developed considering the effects of active portfolio management and expenses paid from plan assets. The discount rate assumption was determined from a universe of high quality corporate bonds. A settlement portfolio is selected and matched to the present value of the plan's projected benefit payments. To calculate pension expense for 2023, the Company will use an expected long-term rate of return on plan assets of 6.50 % for the Retirement Plan of International Paper, a discount rate of 5.40 % and an assumed rate of compensation increase of 3.00 %. The Company estimates that it will record net pension expense of approximately \$ 102 million for its U.S. defined benefit plans in 2023, compared to income of \$ 116 million in 2022.

For non-U.S. pension plans, assumptions reflect economic assumptions applicable to each country.

The following illustrates the effect on pension expense for 2023 of a 25 basis point decrease in the above assumptions:

In millions	2023
Expense (Income):	
Discount rate	\$ 15
Expected long-term rate of return on plan assets	20

PLAN ASSETS

International Paper's Board of Directors has appointed a Fiduciary Review Committee that is responsible for fiduciary oversight of the U.S. Pension Plan, approving investment policy and reviewing the management and control of plan assets. Pension Plan assets are invested to maximize returns within prudent levels of risk.

The Pension Plan maintains a strategic asset allocation policy that designates target allocations by asset class. Investments are diversified across classes and within each class to minimize the risk of large losses. Derivatives, including swaps, forward and futures contracts, may be used as asset class substitutes or for hedging or other risk management purposes. Periodic reviews are made of investment policy objectives and investment manager performance. For non-U.S. plans, assets consist principally of common stock and fixed income securities.

International Paper's U.S. pension allocations by type of fund at December 31, 2022 and 2021 and target allocations were as follows:

Asset Class	2022	2021	Target Allocations
Equity accounts	16 %	18 %	14 % - 25 %
Fixed income accounts	67 %	68 %	62 % - 78 %
Real estate accounts	9 %	8 %	4 % - 11 %
Other	8 %	6 %	2 % - 8 %
Total	100 %	100 %	

The fair values of International Paper's pension plan assets at December 31, 2022 and 2021 by asset class are shown below. Hedge funds disclosed in the following table are allocated to fixed income accounts for target allocation purposes.

Fair Value Measurement at December 31, 2022					
Asset Class	Quoted Prices in Active Markets				
	For Identical Assets	Significant Observable Inputs	Significant Unobservable Inputs		
Total	(Level 1)	(Level 2)	(Level 3)		
<i>In millions</i>					
Equities – domestic	\$ 442	\$ 248	\$ 194	\$ —	
Equities – international	911	641	270	—	
Corporate bonds	1,790	—	1,790	—	
Government securities	3,796	—	3,796	—	
Mortgage backed securities	103	—	103	—	
Other fixed income	(1,139)	—	(1,146)	7	
Derivatives	25	—	—	25	
Cash and cash equivalents	82	82	—	—	
Other investments:					
Hedge funds	1,319				
Private equity	688				
Real estate funds	828				
Total Investments	\$ 8,845	\$ 971	\$ 5,007	\$ 32	

Fair Value Measurement at December 31, 2021					
Asset Class	Quoted Prices in Active Markets				
	For Identical Assets	Significant Observable Inputs	Significant Unobservable Inputs		
Total	(Level 1)	(Level 2)	(Level 3)		
<i>In millions</i>					
Equities – domestic	\$ 805	\$ 471	\$ 334	\$ —	
Equities – international	1,381	976	405	—	
Corporate bonds	2,249	—	2,249	—	
Government securities	5,733	—	5,733	—	
Mortgage backed securities	126	—	126	—	
Other fixed income	(1,482)	—	(1,498)	16	
Derivatives	(21)	—	—	(21)	
Cash and cash equivalents	266	266	—	—	
Other investments:					
Hedge funds	1,368				
Private equity	721				
Real estate funds	929				
Total Investments	\$ 12,075	\$ 1,713	\$ 7,349	\$ (5)	

In accordance with accounting standards, certain investments that are measured at NAV and are not classified in the fair value hierarchy.

Other Investments at December 31, 2022				
Investment	Fair Value	Unfunded Commitments	Redemption Frequency	Remediation Notice Period
<i>In millions</i>				
Hedge funds	\$ 1,319	\$ 120	Daily to annually	1 - 100 days
Private equity	688	126	(a)	None
Real estate funds	828	129	Quarterly	45 - 60 days
Total	\$ 2,835	\$ 375		

(a) A private equity fund investment ("partnership interest") is contractually locked up for the life of the private equity fund by the partnership agreement. Limited partners do not have the option to redeem partnership interests.

Other Investments at December 31, 2021				
Investment	Fair Value	Unfunded Commitments	Redemption Frequency	Remediation Notice Period
<i>In millions</i>				
Hedge funds	\$ 1,358	176	Daily to annually	1 - 100 days
Private equity	721	190	(a)	None
Real estate funds	929	176	Quarterly	45 - 60 days
Total	\$ 3,038	542		

(a) A private equity fund investment ("partnership interest") is contractually locked up for the life of the private equity fund by the partnership agreement. Limited partners do not have the option to redeem partnership interests.

Equity securities consist primarily of publicly traded U.S. companies and international companies. Publicly traded equities are valued at the closing prices reported in the active market in which the individual securities are traded.

Fixed income consists of government securities, mortgage-backed securities, corporate bonds, common collective funds and other fixed income investments. Government securities are valued by third-party pricing sources. Mortgage-backed security holdings consist primarily of agency-rated holdings. The fair value estimates for mortgage securities are calculated by third-party pricing sources chosen by the custodian's price matrix. Corporate bonds are valued using either the yields currently available on comparable securities of issuers with similar credit ratings or using a discounted cash flows approach that utilizes observable inputs, such as current yields of similar instruments, but includes adjustments for certain risks that may not be observable, such as credit and liquidity risks. Common collective funds are valued at the net asset value per share multiplied by the number of shares held as of the measurement date. Other fixed income investments of \$(1.1) billion and \$(1.5) billion at December 31, 2022 and 2021, respectively, primarily include reverse repurchase agreement obligations in which we have sold a security and have an agreement to repurchase the same or substantially the same security at a later date for a price specified in the agreement.

Derivative investments such as futures, forward contracts, options and swaps are used to help manage risks. Derivatives are generally employed as asset class substitutes (such as when employed in a portable alpha strategy), for managing asset/liability mismatches, or bona fide hedging or other appropriate risk management purposes. Derivative instruments are generally valued by the investment managers or in certain instances by third-party pricing sources.

Hedge funds are investment structures for managing private, loosely-regulated investment pools that can pursue a diverse array of investment strategies with a wide range of different securities and derivative instruments. These investments are made through funds-of-funds (commingled, multi-manager fund structures) and through direct investments in individual hedge funds. Hedge funds are primarily valued by each fund's third-party administrator based upon the valuation of the underlying securities and instruments and primarily by applying a market or income valuation methodology as appropriate depending on the specific type of security or instrument held. Funds-of-funds are valued based upon the net asset values of the underlying investments in hedge funds.

Private equity consists of interests in partnerships that invest in U.S. and non-U.S. debt and equity securities. Partnership interests are valued using the most recent general partner statement of fair value, updated for any subsequent partnership interest cash flows.

Real estate funds include commercial properties, land and timberland, and generally include, but are not limited to, retail, office, industrial, multifamily and hotel properties. Real estate fund values are primarily reported by the fund manager and are based on valuation of the underlying investments which include inputs such as cost, discounted cash flows, independent appraisals and market based comparable data.

The following is a reconciliation of the assets that are classified using significant unobservable inputs (Level 3) at December 31, 2022:

Fair Value Measurements Using Significant Unobservable Inputs (Level 3)

<i>In millions</i>	Other fixed income	Derivatives	Total
Beginning balance at December 31, 2020	\$ 14	\$ (6)	\$ 8
Actual return on plan assets:			
Relating to assets still held at the reporting date	2	(20)	(18)
Relating to assets sold during the period	—	(101)	(101)
Purchases, sales and settlements	—	106	106
Transfers in and/or out of Level 3	—	—	—
Ending balance at December 31, 2021	\$ 16	\$ (21)	\$ (5)
Actual return on plan assets:			
Relating to assets still held at the reporting date	(9)	38	29
Relating to assets sold during the period	10	(189)	(179)
Purchases, sales and settlements	(10)	197	187
Transfers in and/or out of Level 3	—	—	—
Ending balance at December 31, 2022	\$ 7	\$ 25	\$ 32

FUNDING AND CASH FLOWS

The Company's funding policy for the Pension Plan is to contribute amounts sufficient to meet legal funding requirements, plus any additional amounts that the Company may determine to be appropriate considering the funded status of the plans, tax deductibility, cash flow generated by the Company, and other factors. The Company continually reassesses the amount and timing of any discretionary contributions. No voluntary contributions were made in 2020, 2021 or 2022. Generally, International Paper's non-U.S. pension plans are funded using the projected benefit as a target, except in certain countries where funding of benefit plans is not required.

At December 31, 2022, projected future pension benefit payments, excluding any termination benefits, were as follows:

<i>In millions</i>	\$
2023	610
2024	622
2025	628
2026	637
2027	640
2028-2032	<u>3,199</u>

OTHER U.S. PLANS

International Paper sponsors the International Paper Company Salaried Savings Plan and the International Paper Company Hourly Savings Plan, both of which are tax-qualified defined contribution 401(k) savings

plans. Substantially all U.S. salaried and certain hourly employees are eligible to participate and may make elective deferrals to such plans to save for retirement. International Paper makes matching contributions to participant accounts on a specified percentage of employee deferrals as determined by the provisions of each plan. The Company makes Retirement Savings Account contributions equal to a percentage of an eligible employee's pay. Beginning in 2019, as a result of the freeze for salaried employees under the Pension Plan, all salaried employees are eligible for the contribution to the Retirement Savings Account.

The Company also sponsors the International Paper Company Deferred Compensation Savings Plan, which is an unfunded nonqualified defined contribution plan. This plan permits eligible employees to continue to make deferrals and receive company matching contributions (and Retirement Savings Account contributions) when their contributions to the International Paper Salaried Savings Plan are stopped due to limitations under U.S. tax law. Participant deferrals and company contributions are not invested in a separate trust, but are paid directly from International Paper's general assets at the time benefits become due and payable. Company contributions to the plans totaled approximately \$ 159 million, \$ 172 million and \$ 154 million for the plan years ending in 2022, 2021 and 2020, respectively.

NOTE 20 POSTRETIREEMENT BENEFITS

U.S. POSTRETIREEMENT BENEFITS

International Paper provides certain retiree health care and life insurance benefits covering certain U.S. salaried and hourly employees. These employees are generally eligible for benefits upon retirement and completion of a specified number of years of creditable service. International Paper does not fund these benefits prior to payment and has the right to modify or terminate certain of these plans in the future.

In addition to the U.S. plan, certain Moroccan employees are eligible for retiree health care and life insurance benefits.

The components of postretirement benefit expense in 2022, 2021 and 2020 were as follows:

<i>In millions</i>	2022		2021		2020	
	U.S. Plans	Non- U.S. Plans	U.S. Plans	Non- U.S. Plans	U.S. Plans	Non- U.S. Plans
Service cost	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Interest cost	5	—	5	1	7	2
Actuarial loss	3	—	5	1	5	1
Amortization of prior service credits	—	—	—	(2)	(1)	(2)
Net postretirement expense	\$ 8	\$ —	\$ 10	\$ —	\$ 11	\$ 1

International Paper evaluates its actuarial assumptions annually as of December 31 (the measurement date) and considers changes in these long-term factors based upon market conditions and the requirements of employers' accounting for postretirement benefits other than pensions. The discount rate assumption was determined based on a hypothetical settlement portfolio selected from a universe of high quality corporate bonds.

The discount rates used to determine net U.S. and non-U.S. postretirement benefit cost for the years ended December 31, 2022, 2021 and 2020 were as follows:

	2022		2021		2020	
	U.S. Plans	Non- U.S. Plans	U.S. Plans	Non- U.S. Plans	U.S. Plans	Non- U.S. Plans
Discount rate	2.90 %	5.20 %	2.50 %	6.91 %	3.30 %	7.15 %

The weighted average assumptions used to determine the benefit obligation at December 31, 2022 and 2021 were as follows:

	2022		2021	
	U.S. Plans	Non- U.S. Plans	U.S. Plans	Non- U.S. Plans
Discount rate	5.50 %	5.70 %	2.90 %	5.20 %
Health care cost trend rate assumed for next year	7.25 %	4.00 %	7.00 %	4.00 %
Rate that the cost trend rate gradually declines to	5.00 %	4.00 %	5.00 %	4.00 %
Year that the rate reaches the rate it is assumed to remain	2032	2023	2030	2022

The plans are only funded in an amount equal to benefits paid. The following table presents the changes in benefit obligation and plan assets for 2022 and 2021:

In millions	2022		2021	
	U.S. Plans	Non-U.S. Plans	U.S. Plans	Non-U.S. Plans
Change in projected benefit obligation:				
Benefit obligation, January 1	\$ 172	\$ 5	\$ 201	\$ 20
Service cost	—	—	—	—
Interest cost	5	—	5	1
Participants' contributions	3	—	3	—
Actuarial (gain) loss	(33)	—	(12)	—
Benefits paid	(23)	—	(26)	—
Less: Federal subsidy	1	—	1	—
Divestiture	—	—	—	(15)
Currency Impact	—	(1)	—	(1)
Benefit obligation, December 31	\$ 125	\$ 4	\$ 172	\$ 5
Change in plan assets:				
Fair value of plan assets, January 1	\$ —	\$ —	\$ —	\$ —
Company contributions	20	—	23	—
Participants' contributions	3	—	3	—
Benefits paid	(23)	—	(26)	—
Fair value of plan assets, December 31	\$ —	\$ —	\$ —	\$ —
Funded status, December 31	\$ (125)	\$ (4)	\$ (172)	\$ (5)
Amounts recognized in the consolidated balance sheet under ASC 715:				
Current liability	\$ (15)	—	\$ (17)	—
Non-current liability	(110)	(4)	(155)	(5)
	\$ (125)	\$ (4)	\$ (172)	\$ (5)
Amounts recognized in accumulated other comprehensive income (loss) under ASC 715 (pre-tax):				
Net actuarial loss (gain)	\$ (6)	\$ (1)	\$ 29	\$ —
Prior service credit	—	—	—	—
	\$ (6)	\$ (1)	\$ 29	\$ —

The non-current portion of the liability is included with the postemployment liability in the accompanying consolidated balance sheet under Postretirement and postemployment benefit obligation.

The components of the (\$ 35) million and (\$ 1) million change in the amounts recognized in OCI during 2022 for U.S. and non-U.S. plans, respectively, consisted of:

In millions	U.S. Plans	Non-U.S. Plans
Current year actuarial (gain) loss	\$ (32)	\$ (1)
Amortization of actuarial (loss) gain	(3)	—
	\$ (35)	\$ (1)

The portion of the change in the funded status that was recognized in net periodic benefit cost and OCI for the U.S. plans was \$ 44 million, \$ 27 million and \$ 12 million in 2022, 2021 and 2020, respectively. The portion of the change in funded status for the non-U.S. plans was \$ 0 million, \$ 1 million, and \$ 0 million in 2022, 2021 and 2020, respectively.

At December 31, 2022, estimated total future postretirement benefit payments, net of participant contributions and estimated future Medicare Part D subsidy receipts, were as follows:

In millions	Benefit Payments		Benefit Payments
	U.S. Plans	U.S. Plans	Non-U.S. Plans
			Plans
2023	\$ 15	\$ 1	\$ —
2024	14	1	—
2025	13	1	—
2026	12	1	—
2027	12	1	—
2028 – 2032	49	3	1

[NOTE 21 INCENTIVE PLANS](#)

International Paper currently has an Incentive Compensation Plan (ICP). The ICP authorizes grants of restricted stock, restricted or deferred stock units, performance awards payable in cash or stock upon the attainment of specified performance goals, dividend equivalents, stock options, stock appreciation rights, other stock-based awards, and cash-based awards at the discretion of the Management Development and Compensation

Committee of the Board of Directors (the "Committee") that administers the ICP. Additionally, restricted stock, which may be deferred into restricted stock units (RSUs), may be awarded under a Restricted Stock and Deferred Compensation Plan for Non-Employee Directors.

PERFORMANCE SHARE PLAN

Under the Performance Share Plan ("PSP"), contingent awards of International Paper common stock are granted by the Committee. The PSP awards are earned over a three-year period. PSP awards are earned based on the achievement of defined performance of Return on Invested Capital ("ROIC") measured against our internal benchmark and ranking of Total Shareholder Return ("TSR") compared to the TSR peer group of companies. The 2020-2022, 2021-2023 and 2022-2024 Awards are weighted 50 % ROIC and 50 % TSR for all participants. The ROIC component of the PSP awards is valued at the closing stock price on the day prior to the grant date. As the ROIC component contains a performance condition, compensation expense, net of estimated forfeitures, is recorded over the requisite service period based on the most probable number of awards expected to vest. The TSR component of the PSP awards is valued using a Monte Carlo simulation as the TSR component contains a market condition. The Monte Carlo simulation estimates the fair value of the TSR component based on the expected term of the award, a risk-free rate, expected dividends, and the expected volatility for the Company and its competitors. The expected term is estimated based on the vesting period of the awards, the risk-free rate is based on the yield on U.S. Treasury securities matching the vesting period, and the volatility is based on the Company's historical volatility over the expected term. PSP grants are made in performance-based restricted stock units.

The following table sets forth the assumptions used to determine compensation cost for the market condition component of the PSP plan:

Twelve Months Ended December 31, 2022	
Expected volatility	24.36 % - 36.92 %
Risk-free interest rate	0.17 % - 1.61 %

The following summarizes PSP activity for the three years ended December 31, 2022:

	Share/Units	Weighted Average Grant Date Fair Value
Outstanding at December 31, 2019	5,514,728	\$ 41.14
Granted	2,171,385	49.15
Shares issued	(1,221,950)	51.70
Forfeited	(844,138)	51.70
Outstanding at December 31, 2020	5,620,025	40.36
Granted	2,316,295	45.24
Shares issued	(994,052)	63.54
Forfeited	(1,016,126)	57.55
Outstanding at December 31, 2021	5,926,142	35.43
Granted	1,899,211	50.32
Shares issued	(1,130,236)	40.23
Forfeited	(1,382,637)	42.03
Outstanding at December 31, 2022	5,312,480	\$ 38.01

Effective January 1, 2023, the ICP was amended to change the name of the PSP to Long-Term Incentive Plan (LTIP), which incorporates RSUs, along with tiering of performance-based stock units and RSUs.

RESTRICTED STOCK AWARD PROGRAMS

The service-based Restricted Stock Award program ("RSA"), designed for recruitment, retention and special recognition purposes, provides for awards of restricted stock to key employees.

The following summarizes the activity of the RSA program for the three years ended December 31, 2022:

	Shares	Weighted Average Grant Date Fair Value
Outstanding at December 31, 2019	160,700	\$ 47.27
Granted	82,228	40.12
Shares issued	(83,053)	44.25
Forfeited	(33,800)	46.43
Outstanding at December 31, 2020	126,075	44.83
Granted	85,098	50.90
Shares issued	(85,768)	45.59
Forfeited	(21,636)	45.52
Outstanding at December 31, 2021	103,769	49.03
Granted	132,200	43.38
Shares issued	(104,177)	44.53
Forfeited	(5,400)	47.78
Outstanding at December 31, 2022	126,392	\$ 46.88

At December 31, 2022, 2021 and 2020 a total of 7.3 million, 7.7 million and 8.5 million shares, respectively, were available for grant under the ICP.

Stock-based compensation expense and related income tax benefits were as follows:

<i>In millions</i>	2022	2021	2020
Total stock-based compensation expense (included in selling and administrative expense)	\$ 124	\$ 130	\$ 72
Income tax benefits related to stock-based compensation	13	13	17

At December 31, 2022, \$ 79 million of compensation cost, net of estimated forfeitures, related to unvested restricted performance shares, executive continuity awards and restricted stock attributable to future performance had not yet been recognized. This amount will be recognized in expense over a weighted-average period of 1.8 years.

NOTE 22 FINANCIAL INFORMATION BY BUSINESS SEGMENT AND GEOGRAPHIC AREA

International Paper's business segments, Industrial Packaging and Global Cellulose Fibers are consistent with the internal structure used to manage these businesses. See the [Description of Business Segments](#) on pages 31 and 32 in [Part II, Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations](#) for a description of the types of products and services from which each reportable segment derives its revenues. On October 1, 2021, the Company completed the previously announced spin-off of its Printing Papers business into a new, publicly-traded company, Sylvamo, listed on the New York Stock Exchange. Additionally, on August 6, 2021, the Company completed the sale of its Kwidzyn, Poland mill which included the pulp and paper mill in Kwidzyn and supporting functions. As a result of the Sylvamo spin-off and the sale of Kwidzyn, the Company no longer has a Printing Papers segment, and all prior year amounts have been adjusted to reflect the Sylvamo and Kwidzyn businesses as a discontinued operation. Both segments are differentiated on a common product, common customer basis consistent with the business segmentation generally used in the Forest Products industry.

Business segment operating profits are used by International Paper's management to measure the earnings performance of its businesses. Management believes that this measure allows a better understanding of trends in costs, operating efficiencies, prices and volumes. Business segment operating profits are defined as earnings (loss) from continuing operations before income taxes and equity earnings, but including the impact of less than wholly owned subsidiaries, excluding interest expense, net, corporate items, net, corporate net special items, business net special items and non-operating pension expense.

External sales by major product is determined by aggregating sales from each segment based on similar products or services. External sales are defined as those that are made to parties outside International Paper's consolidated group, whereas sales by segment in the Net Sales table are determined using a management approach and include intersegment sales.

INFORMATION BY BUSINESS SEGMENT

Net Sales

<i>In millions</i>	2022	2021	2020
Industrial Packaging	\$ 17,451	\$ 16,326	\$ 14,900
Global Cellulose Fibers	3,227	2,732	2,393
Corporate and Intersegment Sales (a)	483	305	272
Net Sales	\$ 21,161	\$ 19,363	\$ 17,565

Operating Profit (Loss)

<i>In millions</i>	2022	2021	2020
Industrial Packaging	\$ 1,742	\$ 1,638	\$ 1,757
Global Cellulose Fibers	106	(3)	(218)
Business Segment Operating Profit	1,848	1,635	1,539
Earnings (loss) from continuing operations before income taxes and equity earnings	1,511	999	329
Interest expense, net	325	337	446
Adjustment for less than wholly owned subsidiaries (b)	(5)	(5)	—
Corporate expenses, net (a)	34	134	62
Corporate net special items	99	352	262
Business net special items	76	18	481
Non-operating pension (income) expense	(192)	(200)	(41)
\$ 1,848	\$ 1,635	\$ 1,539	

Assets

<i>In millions</i>	2022	2021
Industrial Packaging	\$ 16,425	\$ 16,247
Global Cellulose Fibers	3,625	3,521
Corporate and other	3,890	5,475
Assets	\$ 23,940	\$ 25,243

Capital Spending

<i>In millions</i>	2022	2021	2020
Industrial Packaging	\$ 762	\$ 382	\$ 554
Global Cellulose Fibers	143	83	96
Subtotal	905	465	650
Corporate and other	26	15	13
Capital Spending	\$ 931	\$ 480	\$ 663

Depreciation, Amortization and Cost of Timber Harvested

<i>In millions</i>	2022	2021	2020
Industrial Packaging	\$ 783	\$ 829	\$ 813
Global Cellulose Fibers	255	265	274
Corporate	2	3	4
Depreciation and Amortization	\$ 1,040	\$ 1,097	\$ 1,091

External Sales By Major Product

<i>In millions</i>	2022	2021	2020
Industrial Packaging	\$ 17,441	\$ 16,276	\$ 14,851
Global Cellulose Fibers	3,219	2,730	2,394
Other (c)	501	357	320
Net Sales	\$ 21,161	\$ 19,363	\$ 17,565

INFORMATION BY GEOGRAPHIC AREA

Net Sales (d)

<i>In millions</i>	2022	2021	2020
United States (e)	\$ 18,482	\$ 16,769	\$ 15,178
EMEA	1,693	1,611	1,395
Pacific Rim and Asia	123	207	203
Americas, other than U.S.	863	776	789
Net Sales	\$ 21,161	\$ 19,363	\$ 17,565

Long-Lived Assets (f)

<i>In millions</i>	2022	2021
United States	\$ 9,333	\$ 9,317
EMEA	738	745
Americas, other than U.S.	378	397
Long-Lived Assets	\$ 10,449	\$ 10,459

(a) Includes sales of \$ 44 million in 2021 and \$ 56 million in 2020 and operating profit (losses) of \$ 9 million in 2021 and \$ 1 million in 2020, from previously divested businesses. There were no sales or operating profit (losses) from previously divested businesses in 2022.

(b) Operating profits for industry segments include each segment's percentage share of the profits of subsidiaries included in that segment that are less than wholly-owned. The pre-tax earnings for these subsidiaries is added here to present consolidated earnings from continuing operations before income taxes and equity earnings.

(c) Includes \$ 44 million in 2021 and \$ 56 million in 2020 from previously divested businesses.

(d) Net sales are attributed to countries based on the location of the seller.

(e) Export sales to unaffiliated customers were \$ 3.2 billion in 2022, \$ 2.6 billion in 2021 and \$ 2.4 billion in 2020.

(f) Long-Lived Assets includes Forestlands and Plants, Properties and Equipment, net.

INTERIM FINANCIAL RESULTS (UNAUDITED)

In millions, except per share amounts and stock prices	1 st Quarter	2 nd Quarter	3 rd Quarter	4th Quarter	Year
2022					
Net sales	\$ 5,237	\$ 5,389	\$ 5,402	\$ 5,133	\$ 21,161
Earnings (loss) from continuing operations before income taxes and equity earnings	362 (a)	514 (a)	313 (a)	322 (a)	1,511 (a)
Gain (loss) from discontinued operations	93 (b)	95 (b)	64 (b)	(489) (b)	(237) (b)
Net earnings (loss) attributable to International Paper Company	360 (a-c)	511 (a-c)	951 (a-c)	(318) (a-c)	1,504 (a-c)
Basic earnings (loss) per share attributable to International Paper Company common shareholders:					
Earnings (loss) from continuing operations	\$ 0.71	\$ 1.13	\$ 2.48	\$ 0.48	\$ 4.79
Gain (loss) from discontinued operations	0.25	0.26	0.18	(1.38)	(0.65)
Net earnings (loss)	0.96	1.39	2.66	(0.90)	4.14
Diluted earnings (loss) per share attributable to International Paper Company common shareholders:					
Earnings (loss) from continuing operations	\$ 0.70	\$ 1.13	\$ 2.46	\$ 0.48	\$ 4.74
Gain (loss) from discontinued operations	0.25	0.25	0.18	(1.38)	(0.64)
Net earnings (loss)	0.95	1.38	2.64	(0.90)	4.10
Dividends per share of common stock	0.4625	0.4625	0.4625	0.4625	1.8500
2021					
Net sales	\$ 4,593	\$ 4,770	\$ 4,914	\$ 5,086	\$ 19,363
Earnings (loss) from continuing operations before income taxes and equity earnings	306 (d)	252 (d)	397 (d)	44 (d)	999 (d)
Gain (loss) from discontinued operations	131 (e)	225 (e)	527 (e)	58 (e)	941 (e)
Net earnings (loss) attributable to International Paper Company	349 (d-f)	432 (d-g)	864 (d-f)	107 (d-f)	1,752 (d-g)
Basic earnings (loss) per share attributable to International Paper Company common shareholders:					
Earnings (loss) from continuing operations	\$ 0.56	\$ 0.53	\$ 0.86	\$ 0.13	\$ 2.08
Gain (loss) from discontinued operations	0.33	0.57	1.36	0.15	2.42
Net earnings (loss)	0.89	1.10	2.22	0.28	4.50
Diluted earnings (loss) per share attributable to International Paper Company common shareholders:					
Earnings (loss) from continuing operations	\$ 0.55	\$ 0.52	\$ 0.86	\$ 0.13	\$ 2.07
Gain (loss) from discontinued operations	0.33	0.57	1.34	0.15	2.40
Net earnings (loss)	0.88	1.09	2.20	0.28	4.47
Dividends per share of common stock	0.5125	0.5125	0.5125	0.4625	2.000

Note: International Paper's common shares (symbol: IP) are listed on the New York Stock Exchange.

Note: Since basic and diluted earnings per share are computed independently for each period and category, full year per share amounts may not equal the sum of the four quarters. In addition, the unaudited selected consolidated financial data are derived from our audited consolidated financial statements and have been revised to reflect discontinued operations.

(a) Includes the following pre-tax charges (gains):

In millions	2022			
	Q1	Q2	Q3	Q4
Debt extinguishment costs	\$ —	\$ —	\$ 93	\$ —
EMEA Packaging goodwill impairment	—	—	—	76
Foreign currency cumulative translation loss related to sale of equity method investment	—	—	—	10
Timber monetization settlement interest	—	—	55	3
Litigation reserve adjustments	—	—	(15)	11
Environmental remediation reserve adjustment	—	15	—	48
Sylvamo investment - fair value adjustment	(46)	(3)	(16)	—
Other items	—	6	—	(4)
Non-operating pension expense	(49)	(47)	(48)	(48)
Total	\$ (95)	\$ (29)	\$ 69	\$ 96

(b) Includes equity earnings from our Ilm equity method investment for the full year. Also includes a charge of \$ 533 million for the three months ended December 31, 2022 related to the impairment of our equity method investment in connection with the announced plan to sell our interest in the Ilm joint venture.

(c) Includes the following tax expenses (benefits):

In millions	2022			
	Q1	Q2	Q3	Q4
Tax benefit related to timber monetization settlement	\$ —	\$ —	\$ (604)	\$ —
Tax benefit related to exchange of Sylvamo shares	—	(31)	(35)	—
Tax impact of other special items	11	(4)	(29)	(15)
Foreign deferred tax valuation allowance	—	—	—	45
Tax impact of non-operating pension expense	12	12	12	12
Total	\$ 23	\$ (23)	\$ (656)	\$ 42

(d) Includes the following pre-tax charges (gains):

In millions	2021		
	Q1	Q2	Q3
Debt extinguishment costs	\$ 18	\$ 170	\$ 35
EMEA			
Packaging business optimization	12	—	—
Building a Better IP	—	—	—
Legal reserve adjustment	—	—	—
Environmental remediation reserve adjustment	—	5	5
Gain on sale of equity investment in Graphic Packaging	(74)	(130)	—
EMEA			
Packaging impairment - Turkey	2	(9)	—
Sylvamo investment - fair value adjustment	—	—	—
Real estate - office impairment	—	21	—
Other items	—	11	9
Non-operating pension expense	(52)	(51)	(50)
Total	\$ 94	\$ 17	\$ 1

(e) Includes the operating earnings of the Printing Papers business and equity earnings from our Ilm equity method investment for the full year. Also includes the following charges (gains):

In millions	2021			
	Q1	Q2	Q3	Q4
Printing Papers spin-off expenses	\$ 20	\$ 20	\$ 47	\$ 5
Gain on sale of Kwidzyn, Poland mill	—	—	(350)	6
Gain on sale of La Mirada, CA distribution center	—	—	(65)	—
Foreign value-added tax credit	—	(47)	10	—
Foreign and state taxes related to spin-off of Printing Papers business	—	—	27	(3)
Non-operating pension expense	(1)	(1)	—	—
Total	\$ 19	\$ (28)	\$ (331)	\$ 8

(f) Includes the following tax expenses (benefits):

In millions	2021			
	Q1	Q2	Q3	Q4
Tax impact of other special items	\$ 12	\$ (14)	\$ (12)	\$ (73)
Tax impact of non-operating pension expense	13	13	12	11
Total	\$ 25	\$ (1)	\$ —	\$ (62)

(g) Includes the allocation of income to noncontrolling interest of \$ 1 million for the three months ended June 30, 2021 related to the gain on the sale of our EMEA Packaging business in Turkey.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

As of December 31, 2022, an evaluation was carried out under the supervision and with the participation of the Company's management, including our principal executive officer and principal financial officer, of the effectiveness of our disclosure controls and procedures (as that term is defined in Rule 13a-15(f) and 15d-15(f) of the Exchange Act). Based upon this evaluation, our principal executive officer and principal financial officer have concluded that the Company's disclosure controls and procedures were effective as of December 31, 2022.

CHANGES IN INTERNAL CONTROL OVER FINANCIAL REPORTING

There have been no changes in our internal control over financial reporting during the quarter ended December 31, 2022, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

[See Item 8. Financial Statements and Supplementary Data](#), on pages 43 and 44 of this Form 10-K for management's annual report on our internal control over financial reporting and the attestation report of our independent public accounting firm.

ITEM 9B. OTHER INFORMATION

None.

ITEM 9C. DISCLOSURE REGARDING FOREIGN JURISDICTIONS THAT PREVENT INSPECTIONS

None.

PART III.

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information concerning our directors is hereby incorporated by reference to our definitive proxy statement that will be filed with the Securities and Exchange Commission ("SEC") within 120 days of the close of our fiscal year. The Audit and Finance Committee of the Board of Directors has at least one member who is a financial expert, as that term is defined in Item 401(d)(5) of Regulation S-K. Further information concerning the composition of the Audit and Finance Committee and our audit committee financial experts is hereby incorporated by reference to our definitive proxy statement that will be filed with the SEC within 120 days of the close of our fiscal year. Information with respect to our executive officers is set forth on pages 7 and 8 in [Part I](#) of this Form 10-K under the caption, ["Information About Our Executive Officers."](#)

Executive officers of International Paper are elected to hold office until the next annual meeting of the Board of Directors following the annual meeting of shareholders and, until the election of successors, subject to removal by the Board.

The Company's Code of Business Ethics (Code) is applicable to all employees of the Company, including the chief executive officer and senior financial officers, as well as the Board of Directors. We disclose any amendments to our Code and any waivers from a provision of our Code granted to our directors, chief executive officer and senior financial officers on our website within four business days following such amendment or waiver. To date, no waivers of the Code have been granted.

We make available free of charge on our website at www.internationalpaper.com, and in print to any shareholder who requests them, our Corporate Governance Principles, our Code of Business Ethics and the Charters of our Audit and Finance Committee, Management Development and Compensation Committee, Governance Committee and Public Policy and Environment Committee. Requests for copies may be directed to the corporate secretary at our corporate headquarters.

Information with respect to compliance with Section 16(a) of the Exchange Act and our corporate governance is hereby incorporated by reference to our definitive proxy statement that will be filed with the SEC within 120 days of the close of our fiscal year.

ITEM 11. EXECUTIVE COMPENSATION

Information with respect to the compensation of executives and directors of the Company is hereby incorporated by reference to our definitive proxy statement that will be filed with the SEC within 120 days of the close of our fiscal year.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

A description of the security ownership of certain beneficial owners and management and equity compensation plan information is hereby incorporated by reference to our definitive proxy statement that will be filed with the SEC within 120 days of the close of our fiscal year.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

A description of applicable information with respect to certain relationships and related transactions and director independence matters, is hereby incorporated by reference to our definitive proxy statement that will be filed with the SEC within 120 days of the close of our fiscal year.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Information with respect to fees paid to, and services rendered by, our independent registered public accounting firm, and our policies and procedures for pre-approving those services, is hereby incorporated by reference to our definitive proxy statement that will be filed with the SEC within 120 days of the close of our fiscal year.

PART IV.

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

- (1) Financial Statements – See [Item 8. Financial Statements and Supplementary Data](#).
- (2) Financial Statement Schedules – The following additional financial data should be read in conjunction with the consolidated financial statements in [Item 8. Financial Statements and Supplementary Data](#). Schedules not included with this additional financial data have been omitted because they are not applicable, or the required information is shown in the consolidated financial statements or the notes thereto.

Additional Financial Data

2022, 2021 and 2020

(2.1)

[Transaction Agreement, dated October 23, 2017, by and among the Company, Graphic Packaging Holding Company, Gazelle Newco LLC and Graphic Packaging International, Inc. \(incorporated by reference to Exhibit 2.1 to the Company's Current Report on Form 8-K dated October 24, 2017\).](#)

(2.2)

[Separation and Distribution Agreement, dated as of September 29, 2021, by and between International Paper Company and Sylvamo Corporation \(incorporated by reference to Exhibit 2.1 to the Company's Current Report on Form 8-K dated October 1, 2021\).](#)

(3.1)

[Restated Certificate of Incorporation of the Company \(incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K dated May 13, 2013\).](#)

(3.2)

[By-laws of the Company, as amended through February 9, 2016 \(incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K dated February 8, 2016\).](#)

(4.1)

[Indenture, dated as of April 12, 1999, between the Company and The Bank of New York, as Trustee \(incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K dated June 16, 2000\).](#)

(4.2)

[Supplemental Indenture \(including the form of Notes\), dated as of June 4, 2008, between the Company and The Bank of New York, as Trustee \(incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K dated June 4, 2008\).](#)

(4.3)

[Supplemental Indenture \(including the form of Notes\), dated as of December 7, 2009, between the Company and The Bank of New York Mellon Trust Company, N.A., as trustee \(incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K dated December 7, 2009\).](#)

(4.4)

[Supplemental Indenture \(including the form of Notes\), dated as of November 16, 2011, between the Company and The Bank of New York Mellon Trust Company, N.A., as trustee \(incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K dated November 16, 2011\).](#)

(4.5)	Supplemental Indenture (including the form of Notes), dated as of June 10, 2014, between the Company and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K dated June 10, 2014).	(10.2)	Restricted Stock and Deferred Compensation Plan for Non-Employee Directors, Amended and Restated as of May 10, 2010 (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2010). +
(4.6)	Supplemental Indenture (including the form of Notes), dated as of May 26, 2015, between the Company and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K dated May 26, 2015).	(10.3)	Form of Restricted Stock Award Agreement (incorporated by reference to Exhibit 10.3 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2017). +
(4.7)	Supplemental Indenture (including the form of Notes), dated as of August 11, 2016, between the Company and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K dated August 11, 2016).	(10.4)	Form of Restricted Stock Unit Award Agreement (cash settled) (incorporated by reference to Exhibit 10.4 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2017). +
(4.8)	Supplemental Indenture (including the form of Notes), dated as of August 9, 2017, between the Company and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K dated August 9, 2017).	(10.5)	Form of Restricted Stock Unit Award Agreement (stock settled) (incorporated by reference to Exhibit 10.5 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2017). +
(4.9)	Supplemental Indenture (including the form of Notes), dated as of June 10, 2019, between the Company and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K dated June 10, 2019).	(10.6)	Form of Performance Share Plan award certificate (incorporated by reference to Exhibit 10.6 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2017). +
(4.10)	In accordance with Item 601 (b) (4) (iii) (A) of Regulation S-K, certain instruments respecting long-term debt of the Company have been omitted but will be furnished to the Commission upon request.	(10.7)	Pension Restoration Plan for Salaried Employees (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2009). +
(4.11)	Description of Securities (incorporated by reference to Exhibit 4.13 to the Company's Annual Report on Form 10K for the fiscal year ended December 31, 2019).	(10.8)	Amendment Number One to the International Paper Pension Restoration Plan for Salaried Employees effective January 1, 2013 (incorporated by reference to Exhibit 10.8 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2019). +
(10.1)	Amended and Restated 2009 Incentive Compensation Plan (ICP) (corrected version of a previously filed exhibit) (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2019). +	(10.9)	Amendment Number Two to the International Paper Pension Restoration Plan for Salaried Employees effective January 1, 2013 (incorporated by reference to Exhibit 10.9 to the Company's Annual Report on Form 10K for the fiscal year ended December 31, 2019). +
		(10.10)	Amendment Number Three to the International Paper Pension Restoration Plan for Salaried Employees effective January 1, 2015 (incorporated by reference to Exhibit 10.10 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2019). +

(10.11)	Amendment Number Four to the International Paper Pension Restoration Plan for Salaried Employees effective July 1, 2014 (incorporated by reference to Exhibit 10.11 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2019). +	(10.17)	Amendment No. 3 to the International Paper Company Unfunded Supplemental Retirement Plan for Senior Managers, effective December 8, 2008 (incorporated by reference to Exhibit 10.20 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2008). +
(10.12)	Amendment Number Five to the International Paper Pension Restoration Plan for Salaried Employees effective January 1, 2019 (incorporated by reference to Exhibit 10.12 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2019). +	(10.18)	Amendment No. 4 to the International Paper Company Unfunded Supplemental Retirement Plan for Senior Managers, effective January 1, 2009 (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2009). +
(10.13)	Amendment Number Six to the International Paper Pension Restoration Plan for Salaried Employees effective January 1, 2020 (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2020). +	(10.19)	Amendment No. 5 to the International Paper Company Unfunded Supplemental Retirement Plan for Senior Managers, effective October 31, 2009 (incorporated by reference to Exhibit 10.17 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2009). +
(10.14)	Unfunded Supplemental Retirement Plan for Senior Managers, as amended and restated effective January 1, 2008 (incorporated by reference to Exhibit 10.21 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2007). +	(10.20)	Amendment No. 6 to the International Paper Company Unfunded Supplemental Retirement Plan for Senior Managers, effective January 1, 2012 (incorporated by reference to Exhibit 10.21 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2011). +
(10.15)	Amendment No. 1 to the International Paper Company Unfunded Supplemental Retirement Plan for Senior Managers, effective October 13, 2008 (incorporated by reference to Exhibit 10.3 to the Company's Current Report on Form 8-K dated October 17, 2008). +	(10.21)	Amendment No. 7 to the International Paper Company Unfunded Supplemental Retirement Plan for Senior Managers effective July 12, 2016 (incorporated by reference to Exhibit 10.20 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2019). +
(10.16)	Amendment No. 2 to the International Paper Company Unfunded Supplemental Retirement Plan for Senior Managers, effective October 14, 2008 (incorporated by reference to Exhibit 10.5 to the Company's Current Report on Form 8-K dated October 17, 2008). +	(10.22)	Amendment No. 8 to the International Paper Company Unfunded Supplemental Retirement Plan for Senior Managers effective January 1, 2019 (incorporated by reference to Exhibit 10.21 to the Company's Annual Report on Form 10-K for the year ended December 31, 2019). +
		(10.23)	Amendment No. 9 to the International Paper Company Unfunded Supplemental Retirement Plan for Senior Managers effective November 1, 2019 (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2019). +

0.24)	Form of Non-Competition Agreement, entered into by certain Company employees (including named executive officers) who have received restricted stock (incorporated by reference to Exhibit 10.22 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2008). +	(10.32)	Commitment Agreement, dated September 26, 2017, between International Paper Company and The Prudential Insurance Company of America, relating to the Retirement Plan of International Paper Company (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2017). +
0.25)	Form of Non-Solicitation Agreement, entered into by certain Company employees (including named executive officers) who have received restricted stock (incorporated by reference to Exhibit 10.5 to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2006). +	(10.33)	Commitment Agreement, dated September 25, 2018, between International Paper Company and The Prudential Insurance Company of America, relating to the Retirement Plan of International Paper Company (corrected version of previously filed exhibit) (incorporated by reference to Exhibit 10.27 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2018). * +
0.26)	Form of Change-in-Control Agreement - Tier I, for the Chief Executive Officer and all "grandfathered" senior vice presidents elected prior to 2012 (all but one named executive officer) - approved September 2013 (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2013). +	(10.34)	Amendment No. 16 to the Second Amended and Restated Credit and Security Agreement, dated April 28, 2020, by and among International Paper Company, as servicer, Red Bird Receivables, LLC, as borrower, the lenders and co-agents from time to time party thereto, and Mizuho Bank, Ltd., as Administrative Agent (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on April 29, 2020).
0.27)	Form of Change-in-Control Agreement - Tier II, for all future senior vice presidents and all "grandfathered" vice presidents (one named executive officer) elected prior to February 2008 - approved September 2013 (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2013). +	(10.35)	Second Amended and Restated Five Year Credit Agreement dated as of June 17, 2021, among International Paper Company, JPMorgan Chase Bank, N.A., individually and as administrative agent, and certain lenders (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed June 17, 2021).
0.28)	Form of Indemnification Agreement for Directors (incorporated by reference to Exhibit 10.13 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2003). +	(10.36)	Term Loan Agreement dated January 24, 2023, between International Paper Company and CoBank, ACB, as administrative agent (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed January 24, 2023). +
0.29)	Board Policy on Severance Agreements with Senior Executives (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on October 18, 2005). +	(10.37)	Share Purchase Agreement for the Divestiture of International Paper-Kwidzyn SP. Z.O.O. by and among International Paper (Poland) Holding SP. Z.O.O., Mayr-Melnhof Containerboard International, GMBH, Mayr-Melnhof Karton AG and International Paper dated August 4, 2021, incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q filed October 28, 2021..
0.30)	Board Policy on Change of Control Agreements (incorporated by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed on October 18, 2005). +		
0.31)	Time Sharing Agreement, dated October 17, 2014 (and effective November 1, 2014), by and between Mark S. Sutton and International Paper Company (incorporated by reference to Exhibit 99.1 to the Company's Current Report on Form 8-K dated October 14, 2014). +		

.038)	Share Purchase Agreement, dated February 12, 2021, by and between International Paper Investments (Luxembourg) S.a.r.l, Mayr-Melnhoff Cartonboard International GmbH, Mayr-Melnhof Karton AG, International Paper Company (Poland) Holding Sp. Z O.O., and International Paper Company (incorporated by reference to Exhibit 2.1 to the Company's Quarterly Report on Form 10-Q filed on April 30, 2021).	(101.INS)	XBRL Instance Document - the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the inline XBRL document. *
.039)	Transfer Notice from International Paper Switzerland GmbH to Pulp Holding Luxembourg S.A.R.L and ILIM Holding Luxembourg S.A.R.L dated December 15, 2022. *	(101.SCH)	XBRL Taxonomy Extension Schema *
1)	Subsidiaries and Joint Ventures.*	(101.CAL)	XBRL Taxonomy Extension Calculation Linkbase *
1.3.1)	Consent of Independent Registered Public Accounting Firm. *	(101.DEF)	XBRL Taxonomy Extension Definition Linkbase *
1.3.2)	Consent of Independent Registered Public Accounting Firm. *	(101.LAB)	XBRL Taxonomy Extension Label Linkbase *
1.4)	Power of Attorney (contained on the signature page to the Company's Annual Report on Form 10-K for the year ended December 31, 2010). *	(101.PRE)	XBRL Extension Presentation Linkbase *
1.1.1)	Certification by Mark S. Sutton, Chairman and Chief Executive Officer, pursuant to Section 302 of the Sarbanes-Oxley Act of 2002. *	(104)	Cover Page Interactive Data File (formatted as Inline XBRL, and contained in Exhibit 101. *
1.1.2)	Certification by Tim S. Nicholls, Senior Vice President and Chief Financial Officer, pursuant to Section 302 of the Sarbanes-Oxley Act of 2002. *		<i>+ Management contract or compensatory plan or arrangement.</i>
1.2)	Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.**		<i>* Filed herewith</i>
1.9)	Report of Independent Auditors for Ilim S.A and subsidiaries as of and for the years ended December 31, 2022 and 2021. *		<i>** Furnished herewith</i>
			<i>† Confidential treatment has been granted for certain information pursuant to Rule 24b-2 under the Securities Act of 1934, as amended.</i>
			Item 16. Form 10-K Summary
			None.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) 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.

INTERNATIONAL PAPER COMPANY

By: /s/ JOSEPH R. SAAB

February 17, 2023

Joseph R. Saab

**Senior Vice President, General Counsel
and Corporate Secretary**

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Timothy S. Nicholls, Joseph R. Saab and Amy M. Beeson as his or her true and lawful attorney-in-fact and agent, acting alone, with full power of substitution and resubstitution for him or her and in his or her name, place and stead, in any and all capacities, to sign any or all amendments to this annual report on Form 10-K, and to file the same, with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact full power and authority to do and perform each and every act and thing requisite or necessary to be done, hereby ratifying and confirming all that said attorney-in-fact and agent, or his or her substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated:

Signature	Title	Date
<u>/s/ MARK S. SUTTON</u> Mark S. Sutton	Chairman of the Board & Chief Executive Officer and Director	February 17, 2023
<u>/s/ CHRISTOPHER M. CONNOR</u> Christopher M. Connor	Director	February 17, 2023
<u>/s/ AHMET C. DORDUNCU</u> Ahmet C. Dorduncu	Director	February 17, 2023
<u>/s/ ILENE S. GORDON</u> Ilene S. Gordon	Director	February 17, 2023
<u>/s/ ANDERS GUSTAFSSON</u> Anders Gustafsson	Director	February 17, 2023
<u>/s/ JACQUELINE C. HINMAN</u> Jacqueline C. Hinman	Director	February 17, 2023

<u>/s/ CLINTON A. LEWIS, JR.</u>	Director	February 17, 2023
Clinton A. Lewis, Jr.		
<u>/s/ DONALD G. (DG) MACPHERSON</u>	Director	February 17, 2023
Donald G. (DG) Macpherson		
<u>/s/ KATHRYN D. SULLIVAN</u>	Director	February 17, 2023
Kathryn D. Sullivan		
<u>/s/ ANTON V. VINCENT</u>	Director	February 17, 2023
Anton V. Vincent		
<u>/s/ RAY G. YOUNG</u>	Director	February 17, 2023
Ray G. Young		
<u>/s/ TIMOTHY S. NICHOLLS</u>	Senior Vice President and Chief Financial Officer	February 17, 2023
Timothy S. Nicholls		
<u>/s/ HOLLY G. GOUGHNOUR</u>	Vice President – Finance and Corporate Controller	February 17, 2023
Holly G. Goughnour		

2022 LISTING OF FACILITIES

(all facilities are owned except noted otherwise)

INDUSTRIAL PACKAGING	Modesto, California	Fridley, Minnesota
	Ontario, California	<i>Minneapolis, Minnesota leased</i>
Containerboard	Salinas, California	Shakopee, Minnesota
U.S.:	Sanger, California	White Bear Lake, Minnesota
Pine Hill, Alabama	Santa Fe Springs, California (2 locations)	Houston, Mississippi
Prattville, Alabama	Tracy, California	Jackson, Mississippi
Selma, Alabama (Riverdale Mill)	Golden, Colorado	<i>Magnolia, Mississippi leased</i>
Cantonment, Florida (Pensacola Mill)	Wheat Ridge, Colorado	Olive Branch, Mississippi
Rome, Georgia	Putnam, Connecticut	Fenton, Missouri
Savannah, Georgia	Orlando, Florida	Kansas City, Missouri (2 locations)
Cayuga, Indiana	Plant City, Florida	Maryland Heights, Missouri
Cedar Rapids, Iowa	<i>Tampa, Florida leased</i>	<i>North Kansas City, Missouri leased</i>
Henderson, Kentucky	Columbus, Georgia	St. Joseph, Missouri
Maysville, Kentucky	Forest Park, Georgia	St. Louis, Missouri
Bogalusa, Louisiana	Griffin, Georgia	Omaha, Nebraska
Campi, Louisiana	Lithonia, Georgia	McCarran, Nevada
Mansfield, Louisiana	Savannah, Georgia	Barrington, New Jersey
Vicksburg, Mississippi	Tucker, Georgia	Bellmawr, New Jersey
Valliant, Oklahoma	Aurora, Illinois (3 locations)	Milltown, New Jersey
Springfield, Oregon	<i>Bedford Park, Illinois (2 locations) 1 leased</i>	Spotswood, New Jersey
Orange, Texas	Belleville, Illinois	Thorofare, New Jersey
International:	Carol Stream, Illinois	Binghamton, New York
Veracruz, Mexico	Des Plaines, Illinois	Buffalo, New York
Kenitra, Morocco	Lincoln, Illinois	Rochester, New York
Madrid, Spain	Montgomery, Illinois	Scotia, New York
	Northlake, Illinois	Utica, New York
	Rockford, Illinois	<i>Charlotte, North Carolina (2 locations) 1 leased</i>
Corrugated Packaging	Butler, Indiana	Lumberton, North Carolina
U.S.:	Crawfordsville, Indiana	Manson, North Carolina
Bay Minette, Alabama	Fort Wayne, Indiana	Newton, North Carolina
Decatur, Alabama	Indianapolis, Indiana (3 locations)	Statesville, North Carolina
<i>Dothan, Alabama leased</i>	Saint Anthony, Indiana	Byesville, Ohio
Huntsville, Alabama	Tipton, Indiana	Delaware, Ohio
Conway, Arkansas	Cedar Rapids, Iowa	Eaton, Ohio
Fort Smith, Arkansas (2 locations)	Waterloo, Iowa	Madison, Ohio
Russellville, Arkansas (2 locations)	Garden City, Kansas	Marion, Ohio
Tolleson, Arizona	Bowling Green, Kentucky	<i>Marysville, Ohio leased</i>
Yuma, Arizona	Lexington, Kentucky	Middletown, Ohio
Anaheim, California	Louisville, Kentucky	Mt. Vernon, Ohio
<i>Buena Park, California leased</i>	Walton, Kentucky	Newark, Ohio
Camarillo, California	Bogalusa, Louisiana	Streetsboro, Ohio
Carson, California	Lafayette, Louisiana	Wooster, Ohio
<i>Cerritos, California leased</i>	Shreveport, Louisiana	Oklahoma City, Oklahoma
Compton, California	Springhill, Louisiana	Beaverton, Oregon (3 locations)
Elk Grove, California	Auburn, Maine	Hillsboro, Oregon
Exeter, California	Three Rivers, Michigan	Portland, Oregon
<i>Gilroy, California (2 locations)</i>	Arden Hills, Minnesota	<i>Salem, Oregon leased</i>
Los Angeles, California	Austin, Minnesota	Atglen, Pennsylvania

Biglerville, Pennsylvania (2 locations)	Puebla, Mexico leased	Bags
Eighty-four, Pennsylvania	Reynosa, Mexico	U.S.:
Hazleton, Pennsylvania	San Jose Iturbide, Mexico	Buena Park, California
Kennett Square, Pennsylvania	Santa Catarina, Mexico	Beaverton, Oregon
Lancaster, Pennsylvania	Silao, Mexico	Grand Prairie, Texas
Mount Carmel, Pennsylvania	Toluca, Mexico	
Georgetown, South Carolina	Zapopan, Mexico	GLOBAL CELLULOSE FIBERS
Laurens, South Carolina	Agadir, Morocco	
Lexington, South Carolina	Casablanca, Morocco	Pulp
<i>Ashland City, Tennessee leased</i>	Tangier, Morocco	U.S.:
Cleveland, Tennessee	Ovar, Portugal	Cantonment, Florida (Pensacola Mill)
<i>Elizabethhton, Tennessee leased</i>	Barcelona, Spain	Flint River, Georgia
Morristown, Tennessee	Bilbao, Spain	Port Wentworth, Georgia
Murfreesboro, Tennessee	Gandia, Spain	Columbus, Mississippi
Amarillo, Texas	Grinon, Spain	New Bern, North Carolina
Carrollton, Texas (2 locations)	Las Palmas, Spain	Riegelwood, North Carolina
Edinburg, Texas	Madrid, Spain	Georgetown, South Carolina
El Paso, Texas	Monblanc, Spain	Franklin, Virginia
<i>Ft. Worth, Texas leased</i>	Tavernes de la Valldigna, Spain	
Grand Prairie, Texas	Tenerife, Spain	International:
Hidalgo, Texas	Valls, Spain	Grande Prairie, Alberta, Canada
McAllen, Texas		Gdansk, Poland
San Antonio, Texas (2 locations)	Recycling	
Sealy, Texas	U.S.:	DISTRIBUTION
Waxahachie, Texas	Phoenix, Arizona	
Lynchburg, Virginia	Fremont, California	International:
Petersburg, Virginia	Norwalk, California	Guangzhou, China leased
Richmond, Virginia	West Sacramento, California	Hong Kong, China leased
Moses Lake, Washington	Itasca, Illinois	Shanghai, China leased
Olympia, Washington	Des Moines, Iowa	Japan leased
Yakima, Washington	Wichita, Kansas	Korea leased
Fond du Lac, Wisconsin	Roseville, Minnesota	Singapore leased
Manitowoc, Wisconsin	Omaha, Nebraska	
	Charlotte, North Carolina	
International:	Beaverton, Oregon	
Rancagua, Chile	<i>Springfield, Oregon leased</i>	
Cabourg, France	Carrollton, Texas	
Chalon-sur-Saone, France	Salt Lake City, Utah	
LePuy, France (Espaly Box Plant)	Richmond, Virginia	
Mortagne, France	Kent, Washington	
Saint Amand, France		
Bellusco, Italy	International:	
Catania, Italy	Monterrey, Mexico leased	
Pomezia, Italy	Xalapa, Veracruz, Mexico leased	
San Felice, Italy		
<i>Apodaco (Monterrey), Mexico leased</i>		
Ixtaczoquitlan, Mexico		
<i>Juarez, Mexico leased (2 locations)</i>		
Los Mochis, Mexico		

2022 CAPACITY INFORMATION

<i>(in thousands of short tons except as noted)</i>	U.S.	EMEA	Americas, other than U.S.	Total
Industrial Packaging				
Containerboard ^(a)	13,823	524	27	14,374
Global Cellulose Fibers				
Dried Pulp <i>(in thousands of metric tons)</i>	2,963	—	388	3,351

(a) In addition to Containerboard, this also includes saturated kraft, kraft bag, and gypsum.

PULP HOLDING LUXEMBOURG S.A.R.L. and **ILIM HOLDING LUXEMBOURG S.A.R.L.** (together the "Ilim Shareholders" or "you")
 17 ul. Marata, Saint Petersburg 191025,
 Russian Federation
with their registered offices at 23 rue Aldringen, L-1118 Luxembourg

and

ILIM S.A. (the "Company")
 17 ul. Marata, Saint Petersburg 191025,
 Russian Federation
with its registered office at 13 rue du Marché, 1204 Geneva, Switzerland

15 December 2022

By Courier

FAO: Mr Zakhar Smushkin and Mr Boris Zingarevich

Dear Sirs,

Transfer Notice

Introduction and Background

We, International Paper Switzerland GmbH (the "IP Shareholder" or "we" or "us"), are writing to you pursuant to the deed of shareholders agreement in respect of the Company, entered into among the IP Shareholder, the Ilim Shareholders, the Company, International Paper Company, Mr Zakhar Smushkin, Mr Mikhail Zingarevich, Mr Boris Zingarevich and Mr Leonid Eruhimovich on 4 October 2007 (as subsequently amended and restated) (the "Shareholders Agreement").

Terms used in this letter but not otherwise defined shall have the meaning given to them in the Shareholders Agreement or Schedule 1 (which is deemed to be incorporated as if set out in full in this letter), and any references to a 'Clause' shall be a reference to such clause in the Shareholders Agreement.

We wish to transfer all of the Shares held by us, being 66,791,240 ordinary shares of CHF 1 par value in the capital of the Company (the **Sale Shares**) to the Proposed Transferee for consideration wholly in cash (the "Proposed Transfer").

This letter constitutes a Transfer Notice under Clause 15.1 which sets out the information required by Clause 15.2 and has been delivered to you in accordance with Clause 26.11.

We note that, in accordance with Clause 15.14, no Default Option Notice has been validly served as at the date hereof.

Terms of the Proposed Transfer

We wish to transfer the Sale Shares to the Proposed Transferee. A copy of the bona fide offer from the Proposed Transferee (the "Offer Letter") is attached to this letter as **Annex 1**. All supporting documentation to the Offer Letter is included with the Offer Letter. The terms on which the IP

Shareholder has been offered to transfer the Sale Shares to the Proposed Transferee are set out in the Offer Letter, and include the following key terms:

1. The Sale Shares will be transferred to the Proposed Transferee for cash, at a price of USD 7.2595594834 per Share, being a total consideration of USD 484,874,979.75 (the "**Sale Price**").
2. The Guarantor, as primary obligor unconditionally and irrevocably guarantees by way of continuing guarantee to the IP Shareholder, the full, due and punctual performance by the Proposed Transferee of its obligations (including its payment obligations) under or pursuant to the Sale and Purchase Agreement proposed to be entered into pursuant to the Offer Letter (a draft of which is annexed to the Offer Letter, the "**Transfer Agreement**").
3. The offer set out in the Offer Letter is subject to the Proposed Transferee having obtained all necessary regulatory approvals, either free from conditions or subject only to conditions that are acceptable to the Proposed Transferee acting reasonably. Pursuant to the Offer Letter and the Transfer Agreement, the Proposed Transfer is not otherwise subject to any other conditions to completion. At completion of the sale and purchase of the Sale Shares pursuant to the Transfer Agreement, the IP Shareholder and the Proposed Transferee will be required to deliver customary completion documents.
4. The Transfer Agreement contains certain title and capacity warranties to be given by the IP Shareholder to the Proposed Transferee. The aggregate liability of the IP Shareholder and its guarantor under the Transfer Agreement shall not exceed the Consideration (as such term is defined in the Transfer Agreement) payable at completion of the Proposed Transfer.
5. The Proposed Transferee and the Guarantor shall give certain warranties to the IP Shareholder under the Transfer Agreement including certain warranties in relation to capacity, authority and sanctions compliance.
6. Except in limited circumstances prescribed by the Transfer Agreement involving an inability to complete the Proposed Transfer, the Transfer Agreement may not be assigned by any party thereto, without the prior written consent of the IP Shareholder or the Proposed Transferee (as applicable).
7. The Transfer Agreement is governed by English law and provides for any disputes to be referred to and finally resolved by arbitration administered by the Hong Kong International Arbitration Centre (the "**HKIAC**") in accordance with the HKIAC Arbitration Rules.

Offer and Offer Period

In accordance with Clause 15.2.3, we hereby offer to sell all of the Sale Shares to you, as Continuing Shareholder under the Shareholders Agreement, for USD 484,874,979.75 being a cash price of USD 7.2595594834 per Share (the "**Offer Price**"), which is a price per Share equal to the Sale Price (the "**Offer**").

The Offer Price shall be payable without deduction or set-off (subject to paragraph 2.2 of Schedule 4 of the Shareholders Agreement) against registration of the Sale Shares in your name (or as you may direct).

The Offer shall remain open for acceptance by you until the date falling 20 Business Days after the notification by us to you, that all conditions precedent to the completion of Proposed Transfer (save for any conditions precedent relating to or otherwise dependent, for satisfaction, on the obtaining of any Government or other Regulatory Authority approval pursuant to any relevant competition or anti-trust laws or any conditions precedent relating to the ability of the IP Shareholder to transfer or procure the transfer of the Sale Shares to the Proposed Transferee in accordance with the Shareholders Agreement) have been satisfied (the "**CP Satisfaction Notice**") and that the Offer Letter is not capable of being terminated or revoked prior to the date falling 120 days from the date falling 20 Business Days after the CP Satisfaction Notice is given (the "**Offer Period**").

A copy of the CP Satisfaction Notice is attached to this letter as **Annex 2** and is delivered to you simultaneously with this Transfer Notice, together with all accompanying evidence that all such conditions precedent have been so satisfied and that the Offer Letter is not so revocable or terminable for at least 120 days following expiry of the Offer Period, on the date hereof in accordance with Clause 26.11.

You will see that in addition to the Sale Shares, the Proposed Transferee offered to acquire the ILIM Group Sale Shares (as defined in the Transfer Agreement). Please note that if you accept the Offer and wish to acquire the ILIM Group Sale Shares as well, we will be willing to sell them to you on the terms set out in the Transfer Agreement.

Next Steps

Please, as soon as possible and in any event by 24 January, 2023 confirm either that you accept or reject the Offer by emailing us at Brian.McDonald@ipaper.com and Joseph.Saab@ipaper.com, copying in Dmitri.Kovalenko@skadden.com and Ani.Kusheva@skadden.com (you may also confirm by written notice in accordance with Clauses 15.2.2 and 26.11). Such acceptance may be conditional upon the receipt of any Government or other Regulatory Authority approval required for the completion of the Offer to the extent permitted by Clause 15.3.

If a response to the Offer has not been received from you by 24 January, 2023 you will be deemed to have rejected the Offer and we shall be entitled to proceed with the Proposed Transfer subject to and in accordance with the provisions of Clause 15.10.

The provisions of clauses 26.1, 26.2, 26.5, 26.9, 26.11, 26.12 and 26.13 of the Shareholders Agreement shall apply to this letter *mutatis mutandis*.

Please note that this Offer will expire on 24 January, 2023.

[Remainder of the page intentionally blank, signature page follows]

Yours sincerely,

For and on behalf of **International Paper Switzerland GmbH**

/s/ James P. Royalty, Jr. _____

By: James P. Royalty, Jr.

Title: Senior Vice President, EMEA

International Paper Company (NY)
Subsidiaries and Joint Ventures (Majority Owned)
as of December 31, 2022

Name	Jurisdiction
Basswood Forests LLC	Delaware
Branigar Organization, Inc., The	Illinois
Carton y Papel Reciclado, S.A.	Spain
Cartonajes International, S.L.	Spain
Cartonajes Union, S.L.	Spain
Certified Forest Management LLC	Delaware
CircleTree Insurance Company	Tennessee
CMCP - INTERNATIONAL PAPER S.A.S.	Morocco
Commercial Realty & Properties LLC	Delaware
Corrugated Supplies Company, LLC	Delaware
Creapack PLV	France
EM Xpedx, S.A. De C.V.	Mexico
Emballages Laurent SAS	France
English Oak LLC	Delaware
Federal Forestlands Inc.	Delaware
I.P. CONTAINER HOLDINGS (SPAIN) S.L.	Spain
International Paper (Asia) Limited	Hong Kong
International Paper (Europe) S.à r.l.	Luxembourg
International Paper (India) LLP	India
International Paper (New Zealand) Limited	New Zealand
International Paper (Poland) Holding sp. z o.o., w likwidacji	Poland
International Paper Asia Limited (Branch Office)	Korea
International Paper Cabourg SAS	France
International Paper Canada Pulp Holdings ULC	Alberta
International Paper Cartones Ltda.	Chile
International Paper Cartovar, S.A.	Portugal
International Paper Cellulose Fibers (Poland) sp. z o.o.	Poland
International Paper Cellulose Fibers Sales Sàrl	Switzerland
International Paper Company [Delaware]	Delaware
International Paper Company Employee Relief Fund	New York
International Paper Company Foundation	New York
International Paper Container (France) Holding SAS	France
International Paper CTA (Mexico), S. de R.L. de C.V.	Mexico
International Paper Distribution (Shanghai) Limited	People's Republic of China
INTERNATIONAL PAPER DUTCH SERVICES B.V.	Netherlands
International Paper Export Sales, Inc.	Delaware
International Paper Financial Services, Inc.	Delaware
International Paper France SAS	France
International Paper Global Cellulose Fibers Holdings S.à r.l.	Luxembourg
International Paper Holdings (Luxembourg) S.à r.l.	Luxembourg
International Paper Investment (Shanghai) Co., Ltd.	People's Republic of China
International Paper Investment (Shanghai) Co., Ltd., Guangzhou Branch	People's Republic of China
International Paper Investments (Luxembourg) S.à r.l.	Luxembourg
International Paper Italia Srl	Italy
International Paper Japan Limited	Japan
International Paper Madrid Mill, S.L.	Spain
International Paper Manufacturing & Distribution Limited	Hong Kong
International Paper Mexico Company, S. de R.L. de C.V.	Mexico

International Paper Company (NY)
Subsidiaries and Joint Ventures (Majority Owned)
as of December 31, 2022

Name	Jurisdiction
International Paper Molded Fiber LLC	Nevada
International Paper Peru S.R.L.	Peru
International Paper Polska Sp. z o.o.	Poland
International Paper Professional Services Corporation	Delaware
International Paper Russia Holding B.V.	Netherlands
International Paper Saint-Amand	France
International Paper Switzerland GmbH	Switzerland
IP Acquisition I, LLC	Delaware
IP Belgian Services Company SRL	Belgium
IP Canada Holdings Limited	Canada
IP CBPR Properties 2 LLC	Delaware
IP CBPR Properties LLC	Delaware
IP Commercial Properties LLC	Delaware
IP Eagle LLC	Delaware
IP East Holding (Singapore) Pte. Ltd.	Singapore
IP Forest Resources Company	Delaware
IP International Holdings, Inc.	Delaware
IP Mexico Holdings S.à r.l.	Luxembourg
IP Petroleum LLC	Delaware
IP Realty Holdings LLC	Delaware
IP Singapore Holding Pte. Ltd.	Singapore
IP Timberlands Operating Company, Ltd.	Texas
IP-35, Inc.	Delaware
Lacebark LLC	Delaware
Lake Superior Land Company	Delaware
Longleaf Insurance Company	Tennessee
Lost Creek, Inc.	Delaware
Med Packaging SARL	Morocco
Northwest Pines, Inc.	Delaware
Papeteries d'Espaly SAS	France
Red Bird Receivables, LLC	Delaware
Sabine River & Northern Railroad Company	Texas
Societe Mediterraneenne d'Emballages SAS	France
Societe Normande de Carton Ondule SAS	France
SP Forests L.L.C.	Delaware
Supplier Finance Company, LLC	Delaware
Sustainable Forests L.L.C.	Delaware
Temple Associates LLC	Texas
Timberlands Capital Corp. II, Inc.	Delaware
Timberlands Capital Corp. III, Inc.	Delaware
TIN Land Financing, LLC	Delaware
TIN Timber Financing, LLC	Delaware
U. C. Realty LLC	Delaware

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in Registration Statement No. 333-253294 on Form S-3 and Registration Statements Nos. 333-85830, 333-85828, 333-85824, 333-85822, 333-85820, 333-85818, 333-108046, 333-120293, 333-145459, 333-154522, 333-154523, 333-159336, 333-129011, 333-164230, 333-212998, 333-212999, and 333-236539 on Forms S-8 of our reports dated February 17, 2023, relating to the financial statements of International Paper Company, and the effectiveness of International Paper Company's internal control over financial reporting, appearing in this Annual Report on Form 10-K of International Paper for the year ended December 31, 2022.

/s/ Deloitte & Touche LLP

Memphis, Tennessee
February 17, 2023



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Russia

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CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in Registration Statement No. 333-253294 on Form S-3 and Registration Statements Nos., 333-85830, 333-85828, , 333-85824, 333-85822, 333-85818, 333-85820, 333-108046, 333-120293, 333-145459, 333-154522, 333-154523, 333-159336, 333-129011, 333-164230, 333-212998, 333-212999 and 333-236539 on Forms S-8 of our report dated February 16, 2023 appearing in this Annual Report on Form 10-K of International Paper Company, relating to the consolidated financial statements of Ilim S.A. and its subsidiaries (not included therein).

АО "Business Solutions and Technologies"

Moscow, Russia
February 16, 2023

CERTIFICATION

I, Mark S. Sutton, certify that:

1. I have reviewed this annual report on Form 10-K of International Paper Company;
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 the 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.

February 17, 2023

/s/ Mark S. Sutton

Mark S. Sutton

Chairman and Chief Executive Officer

CERTIFICATION

I, Timothy S. Nicholls, certify that:

1. I have reviewed this annual report on Form 10-K of International Paper Company;
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 the 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.

February 17, 2023

/s/ Timothy S. Nicholls

Timothy S. Nicholls

Senior Vice President and Chief
Financial Officer

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

The certification set forth below is being submitted in connection with the Annual Report of International Paper Company (the "Company") on Form 10-K for the period ended December 31, 2022 for the purpose of complying with Rule 13a-14(b) or Rule 15d-14(b) of the Securities Exchange Act of 1934 (the "Exchange Act") and Section 1350 of Chapter 63 of Title 18 of the United States Code. Mark S. Sutton, Chief Executive Officer of the Company, and Timothy S. Nicholls, Chief Financial Officer of the Company, each certify that, to the best of his or her knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Exchange Act; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Mark S. Sutton

Mark S. Sutton

Chairman and Chief Executive Officer

February 17, 2023

/s/ Timothy S. Nicholls

Timothy S. Nicholls

Senior Vice President and Chief Financial Officer

February 17, 2023



ДЕЛОВЫЕ РЕШЕНИЯ И ТЕХНОЛОГИИ

BUSINESS SOLUTIONS AND TECHNOLOGIES

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of Ilim S.A.:

Opinion on the Financial Statements

We have audited the consolidated balance sheets of Ilim S.A. and its subsidiaries (the "Group") as of December 31, 2022 and 2021, the related consolidated statements of operations, comprehensive income, changes in equity, and cash flows for each of the three years in the period ended December 31, 2022, and the related notes (collectively referred to as the "financial statements") (not included herein).

In our opinion, the financial statements present fairly, in all material respects, the financial position of Ilim S.A. and its subsidiaries as of December 31, 2022 and 2021, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2022, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Group's management. Our responsibility is to express an opinion on the Group's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Group in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Group is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the Audit Committee and that (1) relates to an account or disclosure that is material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Revenue – Refer to Note 1 to the financial statements (not included herein)

Critical Audit Matter Description

As disclosed in the consolidated statements of operations, the Group generated \$3,146,796 thousand of revenue from contracts with customers. The Group recognizes revenue on a point-in-time basis when the customer takes title to the goods and assumes the risks and rewards for the goods. However, accounting for sales of goods and related processes and control activities are all processed through a complex information technology (IT) environment, with a high volume of transactions and for individually low amounts.

These processes are dependent on the effective design and operation of multiple systems, processes, data sources and controls. Obtaining an understanding of the systems, databases, and processes used in the Group's revenue recognition process involved auditor judgment and required significant auditor effort, including the involvement of professionals with expertise in IT to identify, test, and evaluate the revenue data flows, the revenue systems and the automated controls.

Due to the extent of audit effort involved in testing controls as it relates to systems used to process revenue transactions, the use of IT professionals to perform such testing, and the importance of the IT systems to accurately recording revenue, we identified auditing revenue as a critical audit matter.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the Group's systems to process revenue included the following:

- With the assistance of our IT specialists, we identified the significant systems used to process revenue transactions and tested the general IT controls over each of these systems, including testing of user access controls, change management controls, and IT operations controls;
- Tested automated controls within the revenue and accounts receivable process, as well as the internal controls designed to ensure the accuracy and completeness of revenue, including those in place to reconcile the various reports extracted from the IT systems to the Group's general ledger;
- We performed analysis of significant contracts with customers for presence of any non-standard terms, separate performance obligations or other conditions that could potentially require specific accounting, etc.;

- We evaluated trends in recorded revenue by performing detailed gross margin analysis;
- We performed detail transaction testing either by reconciliation of total revenue amounts with confirmation letters or by agreeing the amounts recognized to source documents for a sample of revenue transactions, tested the mathematical accuracy of the recorded revenue, considered whether revenue was recorded in the proper period and tested subsequent collection of individual transactions.

АО "Business Solutions and Technologies"

Moscow, Russian Federation
February 16, 2023
We have served as the Group's auditor since 2008.

