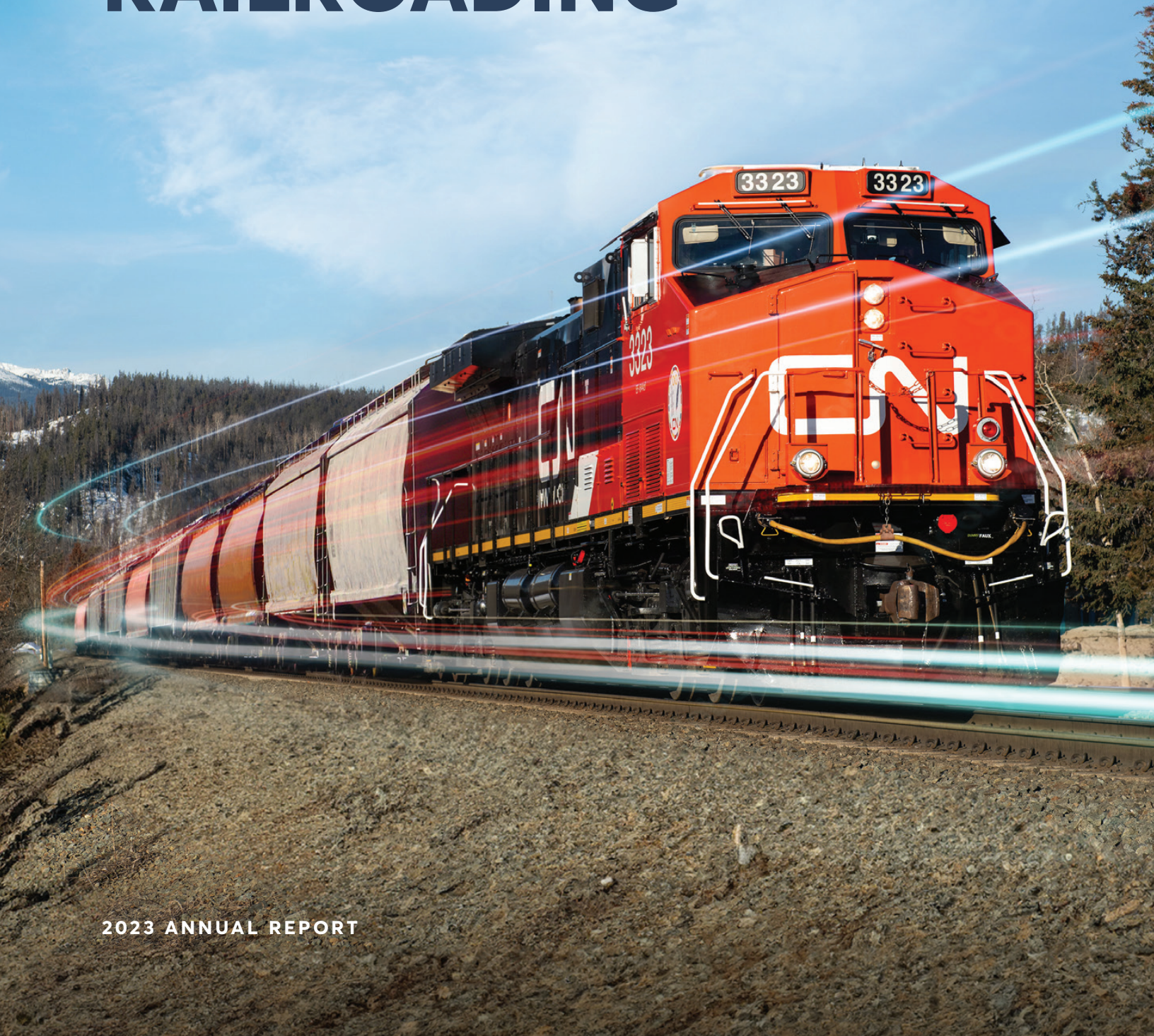




THIS IS **SCHEDULED RAILROADING**



2023 ANNUAL REPORT

Except where otherwise indicated, all financial information reflected in this document is expressed in Canadian dollars and determined on the basis of United States generally accepted accounting principles (GAAP).

Certain statements included in this annual report constitute "forward-looking statements" within the meaning of the *United States Private Securities Litigation Reform Act of 1995* and under Canadian securities laws, including statements based on management's assessment and assumptions and publicly available information with respect to CN. By their nature, forward-looking statements involve risks, uncertainties and assumptions. CN cautions that its assumptions may not materialize and that current economic conditions render such assumptions, although reasonable at the time they were made, subject to greater uncertainty. Forward-looking statements may be identified by the use of terminology such as "believes," "expects," "anticipates," "assumes," "outlook," "plans," "targets" or other similar words.

Forward-looking statements are not guarantees of future performance and involve risks, uncertainties and other factors, which may cause actual results, performance or achievements of CN to be materially different from the outlook or any future results, performance or achievements implied by such statements. Accordingly, readers are advised not to place undue reliance on forward-looking statements. Important risk factors that could affect the forward-looking statements include, but are not limited to, general economic and business conditions, including factors impacting global supply chains such as pandemics and geopolitical conflicts and tensions; industry competition; inflation, currency and interest rate fluctuations; changes in fuel prices; legislative and/or regulatory developments; compliance with environmental laws and regulations; actions by regulators; increases in maintenance and operating costs; security threats; reliance on technology and related cybersecurity risk; trade restrictions or other changes to international trade arrangements; transportation of hazardous materials; various events which could disrupt operations, including illegal blockades of rail networks; and natural events such as severe weather, droughts, fires, floods and earthquakes; climate change; labor negotiations and disruptions; environmental claims; uncertainties of investigations, proceedings and other types of claims and litigation; risks and liabilities arising from derailments; timing and completion of capital programs; the availability of and cost competitiveness of renewable fuels and the development of new locomotive propulsion technology; reputational risks; supplier concentration; pension funding requirements and volatility; and other risks detailed from time to time in reports filed by CN with securities regulators in Canada and the United States. Reference should also be made to "Management's Discussion and Analysis" in this annual report as well as the Annual Information Form and Form 40-F filed with Canadian and U.S. securities regulators and available on CN's website for a description of major risk factors relating to CN.

Forward-looking statements reflect information as of the date on which they are made. CN assumes no obligation to update or revise forward-looking statements to reflect future events, changes in circumstances, or changes in beliefs, unless required by applicable securities laws. In the event CN does update any forward-looking statement, no inference should be made that CN will make additional updates with respect to that statement, related matters, or any other forward-looking statement. Information contained on, or accessible through, our website is not incorporated by reference into this annual report.

As used herein, "Company" or "CN" refers to Canadian National Railway Company and, as the context requires, its wholly owned subsidiaries.

PICTURED (ABOVE):

A merchandise train travels through Snaring, AB.

PICTURED (FRONT COVER):

CN's disciplined scheduled operating model is driving velocity and fluidity across our network. Snaring, AB

PICTURED (BACK COVER, LEFT TO RIGHT):

Glen Davidge, Locomotive Engineer, Kamloops, BC

Inderpreet Deol, Senior Officer, Design and Construction, Toronto, ON

Kenneth Hefling, Machinist, Woodcrest, IL





TABLE OF CONTENTS

II	About CN
IV	Letter from the Chair
VI	Letter from the CEO
VIII	We Are All Railroaders
X	Sustain and Build Service Excellence
XV	Grow Our Business
XXI	Grow Our People
XXV	Board of Directors
XXVII	Select Executive Officers
XXVIII	Shareholder and Investor Information

FINANCIAL SECTION

1	Selected Railroad Statistics – unaudited
2	Management's Discussion and Analysis
68	Management's Report on Internal Control over Financial Reporting
69	Report of Independent Registered Public Accounting Firm
72	Consolidated Financial Statements
77	Notes to the Consolidated Financial Statements

ABOUT CN

CN is a world-class transportation leader and trade-enabler. Essential to the economy, to the customers, and to the communities it serves, CN safely transports more than 300 million tons of natural resources, manufactured products, and finished goods throughout North America every year. CN's network connects Canada's Eastern and Western coasts with the U.S. South through an 18,800 mile rail network. CN and its affiliates have been contributing to community prosperity and sustainable trade since 1919. CN is committed to programs supporting social responsibility and environmental stewardship.



CN'S 2023 PERFORMANCE

Revenues

\$16.8B

(down 2%¹)

Diluted earnings per share (EPS)

\$8.53

(up 15%¹)

Free cash flow

\$3.9B²

(down 9%¹)

Adjusted diluted EPS

\$7.28²

(down 2%¹)

¹ Versus 2022.

² These non-GAAP measures do not have any standardized meaning prescribed by GAAP and, therefore, may not be comparable to similar measures presented by other companies. See the sections entitled *Non-GAAP measures – Adjusted performance measures* and *Liquidity and capital resources – Free cash flow* in Management's Discussion and Analysis (MD&A) included in this annual report for explanations of these non-GAAP measures.

NOTE: Operating measures on Page XII are unaudited and based on estimated data available at this time and are subject to change as more complete information becomes available.

**Make the Plan.
Run the Plan.
Sell the Plan.**
This is **Scheduled Railroading**.



LETTER FROM THE CHAIR



Dear fellow shareholders,

CN plays a significant role in powering the economy and safely delivering essential goods across North America. In 2023, we did so despite a number of external challenges, from climate-related impacts to our network and our customers' operations, to labour disruptions at Canada's vital West Coast ports. We also managed through a meaningful decline in demand, and a volatile economic and geopolitical environment that saw high inflation, rising interest rates, and changing trade flows.

Throughout 2023, our disciplined scheduled operating model drove improved efficiency and resiliency, and enabled a higher, more reliable level of customer service. With this solid foundation of operational and service excellence, the strong leadership of Tracy Robinson and the management team, and the commitment and engagement of our nearly 25,000 employees, we are well positioned to accelerate sustainable, profitable growth.

The Board remains steadfast in our commitment to ensure leading governance practices and we are confident in the Company's strategic direction.

STRONG GOVERNANCE

Over the past year, we continued to focus on several critical areas: strategy, growth, operational performance and safety, and enterprise risk management. And given the economic and geopolitical uncertainty, we sought to challenge our own thinking, taking a dynamic and continuous improvement approach to our governance.

Our work encompassed ongoing oversight of capital allocation, management, and efficiency to ensure our investments are well aligned with our growth plan, deployed in the most strategic areas, and earning the appropriate returns. We took an enterprise-level approach to evaluating our risks, our risk tolerance, and our mitigation capabilities. We reviewed our strategic enablers, including the development and evolution of our talent and culture, employee engagement, stakeholder and Indigenous

relations, and our overall approach to sustainability. We also brought in external experts to inform our thinking and our approach on emerging issues, risks, and opportunities, and to make sure we are anticipating scenarios that could impact our Company and our people.

With respect to climate change, CN remains firmly committed to the transition to a lower-carbon economy and our annual advisory vote on the Company's Climate Action Plan reinforces that commitment. The advisory vote complements our long-standing and robust climate change plans and disclosures, our public reporting of greenhouse gas (GHG) emissions as well as our year-over-year progress, and our strategy to reduce emissions.

When it comes to stakeholder and Indigenous relations, we understand our important responsibilities to the diverse mix of customers and geographies we serve, and to the communities along our network. Given the increasing complexity of our operating environment and our desire to grow, 2023 afforded us the opportunity to refresh our stakeholder and Indigenous engagement strategy with the aim to deepen our relationships and to further build trust and reciprocity. An important step in our journey towards reconciliation with Indigenous peoples was our issuance of a formal acknowledgement of the historical role railways played as instruments of colonial policies. We are now developing a Reconciliation Action Plan, which we plan to release in 2024 and which will include specific, measurable targets that support our reconciliation journey.

COLLABORATION AND CONTINUOUS IMPROVEMENT

Over the past year, the open and transparent dialogue and working relationship between the Board of Directors and CN Leadership Team have helped us to better understand our business risks and opportunities in the near, medium, and longer term. We have further refined and aligned our Board and Committee agendas to ensure that we are spending the necessary time and focus on the right strategic topics.

In addition to benefiting from dialogue and engagement with external experts, the Board also had the opportunity to engage with customers, employees, shareholders, and our Indigenous communities, and to benefit from continued director education. Collectively and individually, Board members have responded to the changing environment with additional training in areas that include climate change, cybersecurity, and artificial intelligence. I am grateful for my Board colleagues' diligence and commitment. I am confident that we have the right skills and diversity around the table to work constructively, ask the right questions, and hold each other and the management team accountable, with integrity and transparency.

"The Board remains steadfast in our commitment to ensure leading governance practices and we are confident in the Company's strategic direction."

THANK YOU

I want to thank our employees, customers, shareholders, the communities in which we operate, and other stakeholders for their insight and ongoing support and collaboration.

As your Chair and on behalf of every member of the Board of Directors, thank you for your continued trust and support as we work to accelerate sustainable, profitable growth and fulfill our purpose to power the economy today and into the future.

We encourage you to join us at our Annual Meeting of Shareholders on April 26, 2024.



Shauneen Bruder

Chair of the Board

Recognized for governance and sustainability leadership

CN is proud to have our governance and sustainability best practices recognized. The 2023 *Globe and Mail's* Report on Business evaluated the work of Canada's corporate boards using a strict set of governance criteria, and CN's Board of Directors was recognized for its performance and ranked first place among companies listed on the S&P/TSX Composite Index. We earned a leadership score from the global environmental non-profit CDP for our dedication to corporate transparency and performance on tackling climate change. We have been listed on the Dow Jones Sustainability Index (DJSI) World Index for 12 consecutive years, and the DJSI North America Index for 15 consecutive years. And, CN was honoured to be recognized by the 2024 S&P Global Yearbook as one of the top sustainability performers in the transportation industry.

LETTER FROM THE CEO



Dear fellow shareholders,

In 2023, CN continued to demonstrate the power of its scheduled operating model, what we call “Make the Plan, Run the Plan, Sell the Plan.” Through planning, strategic investments and relentless execution, we maintained the reliability, efficiency and resilience of our network, despite a landscape filled with challenges.

These challenges manifested in various forms for CN from a record Canadian wildfire season, floods and labour disruptions at ports, to evolving trade flows and a decline in demand that impacted our entire industry. Despite these obstacles, our team rallied together, demonstrating resiliency and an unwavering commitment to serve our customers and move the economy.

SAFETY

Safety remains at the heart of everything we do. And while we achieved continued improvement in key metrics, we cannot celebrate these milestones, as we also mourned the tragic loss of two colleagues. Mohammed Khan and John Thornton were both fatally injured while on duty last year. Our deepest sympathies go out to their families, friends and colleagues. The best way for us to honour our fallen colleagues is to continue to prioritize safety, every minute of each and every day. This takes leadership and a safety culture that embraces and embeds commitment, not simply compliance. We are also leaning into advancements in technology alongside comprehensive training and development and near-miss reporting to support our aspiration of zero harm.

SUSTAIN AND BUILD SERVICE EXCELLENCE

We have made unique and innovative structural changes to further integrate and align our teams and to entrench the “Make the Plan, Run the Plan, Sell the Plan” model. This allows us to balance what we need to be successful today

while driving equal focus on what we need to win in the longer term. Within Operations, we created a Chief Field Operations Officer position and Chief Network Operating Officer position to acknowledge two distinct responsibilities, and we named highly experienced leaders to these roles.

At the core of our operations is our planning process, orchestrated by our Network Operations team. They optimize our rail network and “Make the Plan,” ensuring seamless operations and alignment with customer demands through continuous refinement. **Patrick Whitehead** is responsible for the Operations teams who “Make the Plan” by optimizing volumes for our entire network and looking ahead to ensure we are set up for future growth with the right network, assets and crew resources.

Derek Taylor is accountable for leading the teams that “Run the Plan,” as it takes a lot of day-to-day focus to keep our trains moving safely and on time. Our Field Operations team assumes responsibility to ensure that trains depart on time, making trains meet efficiently and reducing dwell times, keeping us on schedule, maximizing asset utilization and fostering consistency and predictability in customer service.

We constantly review our performance to align our performance with our objectives. We look at metrics such as velocity, dwell times, origin and destination train performance. I’m happy to report that in 2023, velocity improved by 9%, dwell times by 8%, Origin Train Performance by 12.6% and Destination Train Performance by 18%.

CN plays an important role in enabling supply chains, so we're always thinking about ways we can leverage our three-coast network and our strong service to grow with our customers."

GROW OUR BUSINESS

CN plays an important role in enabling supply chains, so we're always thinking about ways we can leverage our three-coast network and our strong service to grow with our customers. We work closely with our customers to understand where they want to grow and how that traffic fits our network. This lets us determine the best plan, as well as the best ways to build out our network capacity, assets and people to enable that growth. In some cases, we have capacity available. In other cases, we may need to come together in different ways with other supply chain partners. Our network is well positioned to benefit from shifting trade flows and emerging markets both within North America and globally. Whether it's new energy sources, the electrification of vehicles, working with other railroads to provide best-in-class cross-continental connections, expanding existing connections, or acquiring existing assets to offer more options for shippers, our Company continues to provide opportunities for customers to win in their markets. Our Local Service Commitment Plan, or LSCP, which measures our performance with our customers, was up 11%. We are also investing in tools and technology, including CN One, that improve our customers' ease of doing business with us.

As part of our succession planning, **Remi G. Lalonde** was appointed as Executive Vice-President and Special Advisor to the CEO, in anticipation of his transition in 2024 to Chief Commercial Officer (CCO) — a critical role in overseeing our talented Commercial team to "Sell the Plan" and deliver our growth agenda.

GROW OUR PEOPLE

Our railroaders are the engine who drive our success today and in the future. We want to be the best company to work for, and across the organization, we are evolving our way of working to be more innovative and inclusive.

In the field, we are looking to evolve and improve our relationship with our unionized workforce and union leadership. We want them to benefit from the transformation our Company is undergoing by leveraging our model to improve their work-life balance and provide them with more predictable work schedules while ensuring our service levels remain strong.

More broadly, we aim to ensure our team reflects the communities where we operate and embraces the chance to make a difference and grow their careers. In the past year, we started to change some of the things we do and how we do them because we believe that everyone deserves a good leader, and everyone deserves development. In addition to our scheduled operations and structural changes, we are investing in the development and succession of our people, attracting the right talent, and empowering them to step in and act based on our clear values and strategic priorities, thus supporting their and our growth.

DELIVERING RESPONSIBLY

We have been railroading for over 100 years, and we aim to be here for at least 100 more. *Delivering Responsibly* is at the heart of how we are building for a sustainable future. Our vision is to be the safest and most carbon-efficient, operationally effective and customer-centric railroad in North America. Our sustainability commitment is anchored by five key pillars: Environment, Safety, People, Community, and Governance.

PREPARED FOR WHAT'S AHEAD

We are determined to accelerate sustainable, profitable growth by building on our scheduled railroading approach, capabilities and talent. We power the economy and aim to drive growth through CN specific initiatives, as well as from improving economic conditions.

We have the right operating model. We have the right people. We are committed to driving continued improvements in the safety and efficiency of our operations. And we are committed to continuing to provide the service that our customers need to grow in their markets.

Thank you,



Tracy Robinson
President and Chief Executive Officer



Imran Ahmad, Assistant Superintendent, Transportation
Calgary, AB



Chyle Christie, Mechanical Supervisor
Walker Yard, Edmonton, AB



Orson Jones, Locomotive Engineer
Kirk Yard, Gary, IN

WE ARE ALL RAILROADERS

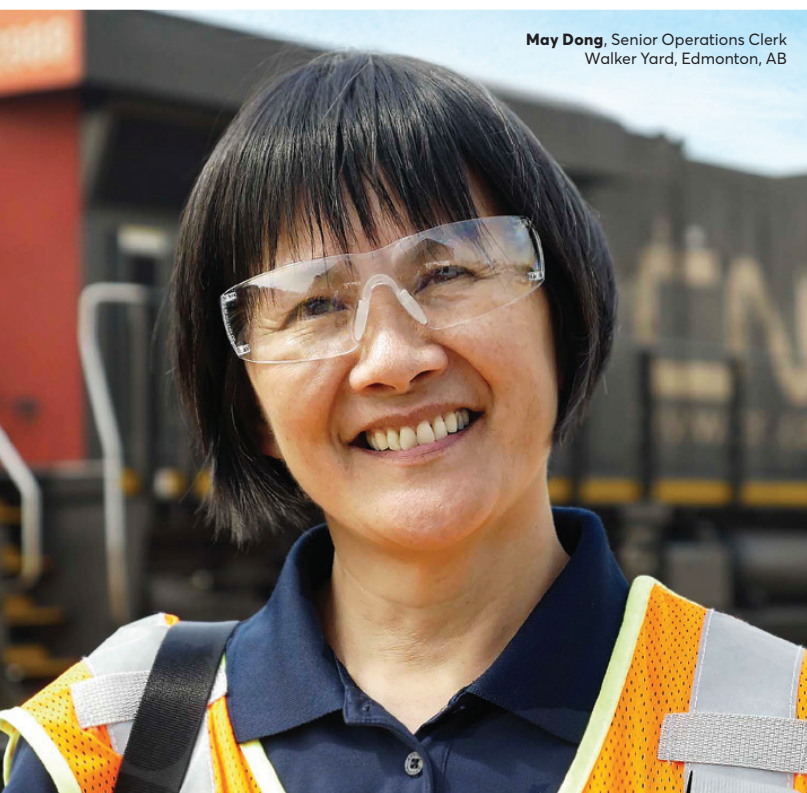
Working together to *power the economy.*



Kristalyn Ross, Timekeeper
Homewood, IL



Kanwaljit Kamboj, ELE-Mechanical
Symington Yard, Winnipeg, MB



May Dong, Senior Operations Clerk
Walker Yard, Edmonton, AB



Simon Gosselin-Audet, Rail Lubricator Maintainer
Joffre, QC



Angelique Cope, Senior Officer, Public Works
Homewood, IL

SUSTAIN AND BUILD SERVICE EXCELLENCE

CN has a great network and skilled team of railroaders who are working together to provide our customers with the service they need to win in their markets. CN's disciplined approach to scheduled railroading — what we call “Make the Plan, Run the Plan, Sell the Plan” — is driving velocity and fluidity across the network, helping us to meet the expectations of our customers and positioning us for sustainable growth.



MAKE THE PLAN

Rail networks are complex systems that require careful planning and execution to ensure trains run on time and reach their destinations safely. CN's Network Operations team is the plan architect. They create a plan that optimizes capacity for the entire network and makes the best use of operating assets like crews, locomotives, rolling stock and rail infrastructure. The team analyzes all volumes across the network to build the most efficient train plan to meet customer demand.

By continuously assessing volumes, train movements, and performance, CN refines the plan to minimize delays, optimizing customer service and efficiency. Network Operations also manages and directs the safe and effective movement of trains everywhere along our tracks. Having this coordinated and all-encompassing network plan makes it easier to adjust to volume fluctuations, deliver the level of service predictability our customers need and expect, and ensure the whole network is more resilient to disruptions, such as weather events or market challenges.

RUN THE PLAN

When it comes to running the plan, CN's Field Operations team focuses on execution. Trains need to depart on time and make their connections at the scheduled time with the correct blocks of cars. CN teams work hard to reduce dwell, or the time trains spend in our terminals and yards. When running on a schedule, it is critical that every train departs on time because its locomotives are expected at the next terminal to be put on another train with a new crew. The railcars are also planned for connections so the team can get them to customers on time. Strict adherence to the schedule drives higher asset velocity, more consistent utilization of power and crews, and more predictable and consistent customer service from the first to the last mile.

The plan is sacred. Together, our Network Operations and Field Operations teams refine the plan on a continuous basis. Coordination, communication and collaboration are key. Any changes are made with a view to optimizing the whole network.

By making and running a network-wide plan with discipline, we unlock additional capacity to safely move more goods and grow our network in the future.



SELL THE PLAN

By making and running a network-wide plan with discipline, we unlock additional capacity to safely move more goods and grow our network in the future. CN's Commercial team sells into our available capacity. We sit down with customers to identify and plan what we can transport today, and then our Commercial team works in lockstep with their Operations colleagues to deliver on our commitments.

We also have in-depth conversations with our customers to understand their business cycles, trade flows and growth plans. This close collaboration with our customers and across our teams helps us strategically determine why, where, when and how to make the right investments to expand our network, build new capabilities or grow capacity in line with the needs of our customers. No matter if it means adding train starts, extending or laying new track, investing in additional equipment, or tapping existing corridors that have capacity, CN follows this rigorous and integrated process to win with our customers and to enable sustainable, profitable growth.



MacMillan Yard, Toronto, ON

Collaboration in action

CN teams — including Operations, Commercial, Business Development, Public Affairs and Dangerous Goods — put the “Make the Plan, Run the Plan, Sell the Plan” approach into action by partnering with Norcan to develop a high-throughput fuel distribution centre in the Greater Toronto Area at MacMillan Yard.

“We met early on with Norcan to understand their marketplace needs, and then developed an efficient operating plan with commodity-tailored blocking from origin to destination. The plan, along with our significant infrastructure investment, is responsive to customer needs, lets us sell into available capacity in the Eastern corridor, and keeps our network fluid.”

Daniel Chan
Manager Business Development, CN

“Our partnership with CN on the new rail terminal helps us efficiently utilize our fleet, safely move in-demand fuel products, and serve our customers in sustainable ways. It’s a win-win.”

Mike Thompson
President, Norcan

THIS IS SCHEDULED RAILROADING

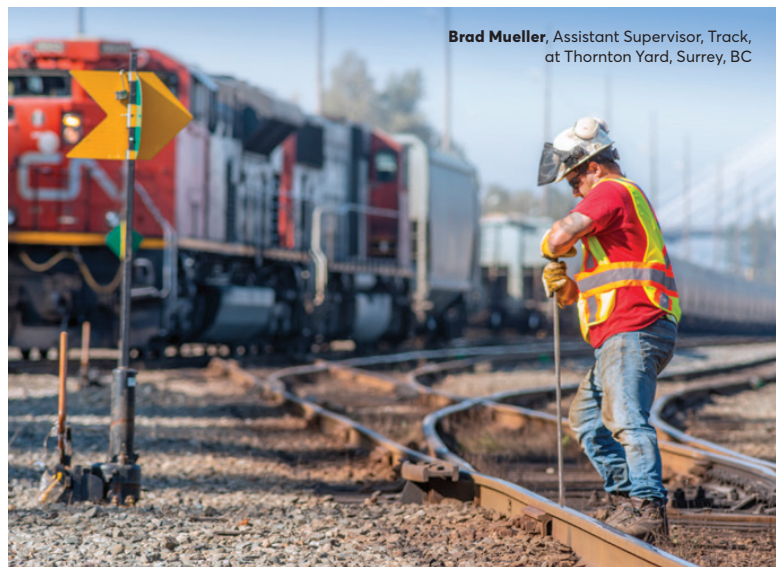
Our scheduled railroading approach drove outstanding operating results in 2023. Car velocity was 213 miles per day, up 9% from the prior year. In fact, our velocity reached levels not seen since our record performance in 2016. Dwell time across all yards was 7.0 hours, an improvement of 8% from the prior year. Through a local service commitment plan (LSCP), CN measures if a customer receives the right cars and in the committed switch window. The LSCP measured 91% in 2023, compared with 80% in 2022.

Of course, nothing is more important than safety. We recorded a 13% improvement in our injury frequency rate in 2023 versus 2022, and a 17% improvement in our accident rate over the same period. Our safety aspiration remains anchored in our commitment to eliminate injuries and accidents. Every minute of every day, our top priority is ensuring everyone returns home safely.

STRUCTURED TO SUSTAIN AND BUILD ON OUR PERFORMANCE

We evolved our Operations structure in late 2023 to align with the distinct focus and capabilities required to develop our plan and the day-to-day demands of safely executing the plan. The restructuring embeds our “Make the Plan, Run the Plan, Sell the Plan” approach in our business and will help us sustain our service and performance, while serving as a platform for growth as we move forward.

Patrick Whitehead, Executive Vice-President and Chief Network Operating Officer, “makes the plan,” leading Network Operations, Mechanical, Engineering and the corporate Safety team. Derek Taylor, Executive Vice-President and Chief Field Operations Officer, “runs the plan,” with system-wide leadership for Transportation and Intermodal Operations. This innovative structure is intended to further integrate all teams in creating, executing and selling into the plan. It also allows us to remain focused on the intense day-to-day demands of running our network and maintaining our customer service levels. At the same time, it gives our team the ability to continuously optimize the overall network while looking ahead to determine future requirements when it comes to our workforce, track and other infrastructure investments, as well as operating technologies to support safety, growth and efficiency.



Brad Mueller, Assistant Supervisor, Track,
at Thornton Yard, Surrey, BC



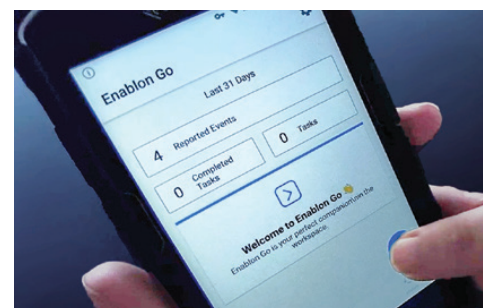
SAFETY IS OUR CORE VALUE — AND AT THE HEART OF SCHEDULED RAILROADING

While our scheduled operation is running smoothly, it means nothing if we don't do it safely. Our ambition is to be the safest railroad in North America with an uncompromising commitment to the health and safety of our employees, the customers we serve, and the communities and environments in which we operate.

We aspire to ZERO. Our aim is to eliminate serious injuries and fatalities, and we are committed to providing the leadership, training and resources necessary to achieve our goals. To continually reinforce our safety culture, field employees participate in regular hands-on training and daily job safety briefings. Ongoing exposure reduction discussions and hazard inspections are also organized to identify any workplace and personal safety risks and to take any necessary and immediate corrective actions. Field employees also have a mobile technology application (Enablon Go) that enables real-time and voluntary, confidential reporting of near misses or safety hazards while helping CN take action and create a safer working environment (see sidebar). Since its deployment, multiple issues and potential hazards have been reported and addressed through Enablon Go.

Since 2021, Operations employees have completed more than 8,800 Safety Leadership Training courses, which include workshops and ongoing in-field coaching with this basic tenet: Leaders create the culture, culture determines behaviour, and behaviour drives safety. This is helping instill a safety culture based on values versus compliance.

In June 2023, thousands of employees participated in CN's first Safety Week, which included meaningful opportunities to discuss safety and recognize each others' achievements and efforts to stay safe. CN senior executives also engaged shoulder to shoulder with field employees across the network. The week culminated with a Safety Celebration award ceremony to honour railroaders who have dedicated their careers to staying safe on our network and looking out for each other.



Real-time hazard and near-miss reporting technology

CN's field employees have safety technology at their fingertips. A new mobile application enabling real-time safety reporting earned a 2023 Railway Association of Canada (RAC) Safety Award. Enablon Go lets field employees quickly report near misses or safety hazards while on-site, in real time. This enables us to take action, helping to ensure potential issues don't become injuries or accidents. The app captures GPS coordinates when employees report near misses or hazards — voluntarily and confidentially — into their mobile devices, and they can upload photo, video and audio files to provide additional information. With the technology application, CN aims to create a safer working environment and allow for the implementation of more impactful safety solutions based on systemic data.



Learn more about CN's safety policies and initiatives: www.cn.ca/en/safety/

One of CN's Autonomous Track Inspection Program (ATIP) railcars, positioned in a regularly scheduled train, crosses through Walhachin, BC.



ADVANCED TECHNOLOGIES KEEP OUR NETWORK SAFER

Along with training and leadership, we are leveraging advanced technologies to drive improved safety performance. Technology systems and data analytics are helping us to better predict potential issues, helping to drive improved safety outcomes.

Wayside detection network

We are proactively monitoring the mechanical health of our trains to help prevent incidents before they happen. CN has an extensive wayside detection network, utilizing over 24 million data points per day across more than 2,800 detectors along our mainline, providing layers of protection to measure things like wheel bearing temperature and noise, wheel load impacts and any dragging equipment on the undercarriage of railcars. These detection technologies generate alarms and notifications, allowing CN to take action to address a problem in real time.

Technology systems and data analytics are helping us to better predict potential issues, helping to drive improved safety outcomes.

Autonomous Track Inspection Program

CN has also installed powerful sensors and AI technology into our Autonomous Track Inspection Program (ATIP) railcars, which are positioned in regularly scheduled trains, enabling 24/7 track inspections at normal track speed. Using this technology, our 11 ATIP cars inspected over one million miles of track in 2023. In the future, CN intends to continue to upgrade our ATIP cars with new technologies like ground-penetrating radar to scan into the roadbed looking for soft spots.

Automated Inspection Portals

Our Automated Inspection Portals (AIPs) feature ultra-high-definition panoramic cameras and high-intensity LED lighting that capture a full 360-degree view of the train and undercarriage as it travels at track speed through the portals for real-time inspection. This complements current manual railcar inspections and detector systems. Artificial intelligence (AI) then helps experienced railcar mechanics identify railcars needing repair before a train arrives at the yard. CN currently has seven AIPs in operation, contributing to increased safety, capacity and fluidity.

Electronic Track Authority Verification

Our Electronic Track Authority Verification (ETAV) system is fully deployed across our network to help improve safety for our field employees who operate on-track inspection and repair equipment. Leveraging CN's Geospatial Information System (GIS), ETAV provides hi-rail vehicle operators with visual and audible alerts as they approach their track authority limits. ETAV complements existing processes that on-track equipment operators use to get permission from rail traffic controllers to access and work on tracks.

GROW OUR BUSINESS

CN puts the customer at the centre of everything we do so we can provide consistent, efficient and reliable service, while we also collaborate to understand and anticipate their future needs to help them succeed. These strong customer relationships, along with our integrated operating plan, network footprint and supply chain partnerships, are key elements of our strategy as we aim to accelerate sustainable, profitable growth going forward.



PICTURED:
The Port of Prince Rupert, BC, serves as CN's exclusive gateway to/from Asia.
It's one of the ports that provides CN customers with three-coast optionality.

LEVERAGING THE STRENGTH OF OUR NETWORK

Our geographic and commodity diversity gives CN a distinct advantage. Our team moves a balanced and diversified portfolio of products — fertilizers and grain that help feed the world, lumber and panels that support housing construction, raw materials that drive all kinds of manufacturing, as well as emerging commodities that are enabling the transition to a lower-carbon economy, and so much more. This commodity diversity positions CN to better weather economic fluctuations and enhances our ability to help us and our customers grow their business.

Our network is also geared for growth, resiliency and speed, which is enabled by our disciplined scheduled railroading. We provide customers a transcontinental network with strong access to key natural resources, three-coast optionality and service through 22 inland rail terminals. For example, our bypass loop around Chicago saves up to 48 hours of transit time, and we have access to nine ports on three coasts with capacity to grow.



AltaGas, Prince Rupert, BC

SEIZING UNIQUE GROWTH OPPORTUNITIES

CN is well positioned to develop end-to-end supply chain solutions and address global trade and commodity trends to support the growth and success of our customers. In 2023, we helped our customers take advantage of opportunities, and we took steps to be prepared for what's next.

New energy sources

Worldwide efforts to combat climate change are driving demand shifts toward new energy sources like wood pellets, biofuels, propane and hydrogen. CN is a key player in these rapidly developing markets, creating hubs to consolidate products onto rail to support the overall supply chain and strengthen the green energy transition. For example, with Keyera, CN is jointly developing the Alberta Clean Energy (ACE) terminal, the most efficient rail logistics solution in the Alberta Industrial Heartland, where as many as nine new plants are planned to be built in the next decade. ACE will look to aggregate clean energy fuels, creating opportunities for CN to transport more goods, more efficiently to markets across North America and around the world.

In addition, CN is building a high-throughput fuel distribution centre at MacMillan Yard in the Greater Toronto Area. The new rail facility will receive imported lower-carbon fuels, like lower-carbon-intensity ethanol and renewable diesel. CN also plans to use renewable diesel for our locomotives. In 2023, CN also renewed and expanded a five-year transportation agreement with AltaGas, leveraging our exclusive access to the Port of Prince Rupert, while supporting AltaGas' ongoing resource development across Western Canada and providing its downstream customers with energy security to support economic activity.

Our network is geared for growth, resiliency and speed, which is enabled by our disciplined scheduled railroading.

Transition to electric vehicles

Three of CN's five largest automotive customers are "All In" with 100% EV production expected by 2035. CN has new opportunities as EV assembly plants are being announced on or near our network. EV battery production is expected to create long-term opportunities for CN to transport critical inputs like lithium, copper, nickel, cobalt and graphite. For example, we are beginning to ship lithium for export out of the Port of Quebec to international markets.

Global trade shifts

Supply chains have been diversifying their supplier base by partnering across different geographies to enhance their resilience in the face of major disruptions, economic challenges or port congestion. CN expects to benefit from these shifting global trade routes with continued growth at the Port of Prince Rupert and the Port of Halifax, both of which are exclusively served by CN, as well as the Gulf Coast ports of Mobile and New Orleans. For example, in Western Canada, the Port of Prince Rupert can provide a strategic advantage for rail customers, as it offers shorter transit times to key markets, reduced port congestion, and state-of-the-art export and import terminals.



2023 Best Partner Award



2023 Logistics Partners
Award for the "Join Forces"
Leadership Principle

Electric vehicles are off-loaded at CN's Autoport, Halifax, NS.



Moving and accessing natural resources

CN leverages its network footprint to move essential and in-demand resources. Canada is the largest producer of potash, and we're poised to continue transporting shipments from Western Canada through our tri-coastal network. Grain is essential to the Canadian economy, as well as the U.S. Midwest. CN collaboration across the supply chain, along with network investments — notably in Western Canada — and our hopper car fleet renewal and locomotive modernization expansion, are helping us ensure we have the capacity to move grain safely and efficiently to help farmers and customers feed the world today and into the future. In 2023, CN completed a project in Northern British Columbia to handle more frac sand and propane shipments, taking advantage of our network's reach.

PARTNERING FOR GROWTH

CN is partnering across the supply chain to provide the highest level of cost-effective transportation and logistics services so our customers can access new or additional markets.

We offer compelling intermodal options to and from Mexico. In partnership with Union Pacific (UP) and Ferromex (FXE), CN in 2023 launched the Falcon Premium intermodal service — a best-in-class, Mexico–U.S.–Canada route with seamless interconnection in Chicago. The service connects all CN origin points to FXE terminals in Monterrey and Silao, Mexico. Falcon Premium is the fastest, most reliable intermodal service between Canada and Mexico by combining the unique advantages of each partner: FXE's leading transit times between Silao and Eagle Pass, TX; UP's superior route from Eagle Pass to Chicago; and CN's time-saving Chicago bypass loop. This service directly benefits intermodal customers shipping automotive parts, food (especially temperature-controlled products), and freight of all kinds. Falcon Premium is also designed to lower greenhouse gas (GHG) emissions through reduced rail miles and truck-to-rail conversion. For added optionality, CN is developing a partnership with Crowley Container Lines to provide a new intermodal vessel service called the Mexico Gulf Express, which offers competitive transit times and avoids congested borders. The marine highway service goes from the Port of Mobile (AL) to the recently modernized Port of Tuxpan in Mexico — the closest port to Mexico City. CN provides in-land service between Canada, the U.S. Midwest and Port of Mobile.

For the growing Southern U.S. markets, CN strengthened its partnership with Norfolk Southern (NS) to launch an all-rail domestic intermodal service. The new service links



As part of CN's intermodal and integrated services, CNTL pairs the efficiency of rail with the added flexibility of trucking to serve local and non-rail-served customers. Montreal, QC

CN-served Canadian markets with NS-served Kansas City and Atlanta, the heart of the fast-growing manufacturing and consumer base in the Southeastern U.S. With fast and dependable transit times, the solution works through interchanges in Detroit and Chicago to convert long-haul truck traffic to/from Kansas City and Atlanta to rail.

CN is also expanding Gulf Coast connections for customers. CN is offering a new intermodal service to the Port of Gulfport (MS), providing shippers with new ocean-connectivity options to move goods between the U.S. Gulf Coast, U.S. Midwest and Canada. The service is in partnership with the Mississippi State Port Authority at Gulfport and Ports America.

CN's three core terminals in Montreal, Toronto and Chicago touch about 70% of our intermodal business every day. Our commitment to the realization of CN's Milton Logistics Hub is steadfast, and we remain focused on obtaining all necessary approvals. This Hub is expected to provide additional and much-needed intermodal capacity in the Greater Toronto and Hamilton Area.



Centralia, IA

Strategic investments support our customers' growth plans

CN is making strategic investments based on where our customers need or plan to grow. In 2023, for example, CN announced an agreement to acquire Iowa Northern Railway, which operates 175 route miles in Iowa, connects to CN's U.S. rail network, and serves Midwest agricultural and industrial markets, including grain and biofuels. The transaction, which is pending regulatory review with a decision expected in 2024, is aimed at supporting local business growth by creating a single-line service to North American destinations. In addition, CN acquired from Genesee & Wyoming, Inc., a stake in the Cape Breton and Central Nova Scotia Railway that includes 150 route miles. The partnership reinforces CN's presence in Eastern Canada and enables longer-term growth opportunities.

ELEVATING THE CUSTOMER EXPERIENCE WITH ADVANCED TECHNOLOGIES

We are working towards elevating the customer experience with advanced technology that increases safety, efficiency, seamless service and data-driven business decisions. In 2023, CN launched My Carbon Emissions, a new self-service, sustainability tool that provides customers with a detailed report of their estimated GHG emissions based on all their loaded shipments moved on CN, as well as the emissions avoided by choosing rail over truck. This easily accessible information can empower data-driven decisions that support customers' climate objectives and environmentally friendly transportation solutions. My Carbon Emissions is available on the CN One eBusiness platform. CN also launched a new Shipment Tracking tool in 2023, a consolidated tracking tool for customers on CN One. Shipment Tracking provides an easy and reliable way for customers to follow the movements of their intermodal and carload shipments on CN's network in real time. It has multiple features, including intuitive map views and the ability to search, filter and share critical shipment information anytime, anywhere.

Throughout 2023, CN also expanded the deployment of advanced monitoring technologies to key terminals to ensure the transparency, safety and reliability of sensitive commodities being shipped across our network and to and from overseas markets. This includes remote monitoring software that enables temperature-controlled cargo such as pharmaceuticals, and fruit and meat products to safely move on time and on temperature.



Driver **Roch Lamarche** and team members from TransX — one of CN's extended trucking arms — allow us to deliver additional value to customers from the first mile to the last mile. Montreal, QC



Gabriel Savoie, Director, Exports at Olymel (left); and **Keegan Donaghey**, Senior Manager, Temperature Controlled Cargo at CN



Olymel is the Canadian leader in the production, processing and distribution of pork and poultry meat, exporting its products to over 65 countries. Food safety is its number one priority, so the company relies on CN's temperature-control services and remote temperature monitoring technology.

"CN is an important business partner for Olymel for the shipment of our chilled pork products. Our teams work very well together, and we rely on their great support in our growth towards our export markets."

Gabriel Savoie
Director, Exports at Olymel

Selected 2023 sustainability recognition and memberships

Member of
**Dow Jones
Sustainability Indices**
Powered by the S&P Global CSA

Listed on the Dow Jones Sustainability World Index for 12 consecutive years and on the DJSI North American Index for 15th straight year.

S&P Global

Recognized by the 2024 S&P Global Yearbook as one of the top sustainability performers in the transportation industry.



Earned a leadership score for our dedication to corporate transparency and performance on tackling climate change.



Named one of the Best 50 Corporate Citizens in Canada for the 15th consecutive year.



Pledged to set a net-zero carbon emissions by 2050 target, which aligns with the Government of Canada's Net-Zero Challenge to which CN is also a signatory.



In 2022, CN joined the United Nations Global Compact initiative — a platform for the development, implementation and disclosure of responsible business practices.



DELIVERING RESPONSIBLY

CN is focused on building a sustainable future by *Delivering Responsibly*: moving our customers' goods safely, efficiently and in a manner that seeks to minimize our impact on the environment; attracting, developing and retaining top diverse talent; helping to make our communities safer and stronger while fostering close relationships with stakeholders; and adhering to the highest governance standards.

Delivering Responsibly, the encapsulation of our sustainability leadership, underpins all our decisions, commitments, governance standards and investments. For example, CN is making a positive contribution in the urgent fight against climate change, and we are playing a key role in the transition to a lower-carbon economy. Rail has a tremendous potential to reduce the environmental impact of transportation services. Shipping heavy freight by rail can reduce greenhouse gas (GHG) emissions by up to 75% when compared to trucks. We are actively working with many of our customers to help them reduce their transportation supply chain GHG emissions by leveraging rail for the long haul and trucking over shorter distances. To further reduce GHG emissions, we are actively working with the industry on testing and exploring the greater use of sustainable renewable fuel blends, beyond regulated amounts, in our locomotives. Along with Progress Rail and Chevron Renewable Energy Group, we continue testing high-level renewable fuel blends, including both biodiesel and renewable diesel. In 2023, we also joined forces with another Class I railroad to share the costs and resources needed to test a blend of renewable fuels on two classes of locomotives. Through a modernization program with Wabtec, we announced an order to upgrade 60 additional locomotives in our fleet to further improve reliability, while reducing our rail carbon footprint. It will bring our total modernized fleet to 110 locomotives through this program. Learn more about CN's commitment to *Delivering Responsibly* in our latest report (www.cn.ca/2022deliveringresponsibly) and read our 2023 CDP Climate Change Response report (www.cn.ca/2023CDP), which includes a Task Force on Climate-related Financial Disclosures (TCFD) Index. Further information is also found here: www.cn.ca/en/delivering-responsibly/.

GROW OUR PEOPLE

What truly makes CN special is our talented team of nearly 25,000 railroaders who show up every day to get the job done — safely and efficiently. We continue to evolve our workplace culture to be more modern, innovative, inclusive and reflective of the communities where we operate and the future we want for our people, our Company and our industry.



PICTURED:
CN field employees gather in Homewood, IL, for a daily job safety briefing that reinforces our safety culture and mindset of looking out for each other.

ENSURING FAIR COMPENSATION

CN is committed to pay equity, ensuring equal pay opportunities for work of equal value. We prioritize ensuring that employees in roles of similar skills, efforts, responsibility and working conditions receive equitable compensation. We conduct regular analyses of our total compensation to ensure what we offer is fair and competitive for all employees. In 2023, a joint employer and employee committee was created in Canada to work on a Pay Equity plan to be published later in 2024. CN also received a certification in 2023 from the Illinois Department of Labor, recognizing our compliance with the state's Equal Pay Act. Pay equity and pay gap reporting are important ways to monitor our compensation, aligning with our commitment to foster a more diverse and inclusive workplace, where everyone feels valued and duly recognized for their contributions and performance.

UPDATING TOTAL REWARDS PROGRAMS TO SUPPORT EVOLVING EMPLOYEE NEEDS

As part of CN's aim to be the best place to work, we conduct regular reviews of our total rewards offering, making adjustments, as needed, to ensure we remain competitive and to align with evolving marketplace best practices. In 2023, CN completed a review of its total rewards offering — including retirement savings, compensation and group benefits offerings — and implemented changes to enhance employees' experience, provide greater flexibility, and help CN attract and retain talent.

CONTINUOUS LEARNING HELPS OUR PEOPLE GROW

Our HR practices are adapting to attract, retain and motivate talent, as well as help them keep pace with business opportunities presented by emerging technologies. As part of fostering a continuous learning culture, we are investing in comprehensive training programs for our employees to expand their skill sets and learn the latest technologies. Training modules encompass a wide range of topics focused on collaboration, communications and inclusive leadership, as well as skills development around artificial intelligence, machine learning, data literacy and cloud computing.

In the past year, we also launched a new online Learning and Development Hub, where management employees can access self-directed courses, videos, podcasts and other resources tailored to their career development plans and goals. The training hub also includes virtual courses for a wide range of topics related to leadership and technical skills, as well as learning a second language, which helps us create a more inclusive workplace and can contribute to business growth. By completing training at a time and place that suits their schedules, managers are mastering core competencies or learning specific skills to help them advance and effectively lead their teams. The training platform is designed to build a stronger bench strength of talent to handle future business needs.

Non-management employees also participate in ongoing training to advance their safety and on-the-job skills, with new training tools that reflect the learning preferences of today's generation. This past year, field employees from across all Operations functions created an on-demand repository of "how-to" training videos that let current and new railroaders learn or quickly refresh themselves on safe operating procedures. The brief, YouTube-style videos reinforce CN's safety culture as well as how employees like to get information. Developed "by railroaders for railroaders," the training series features more than 80 bilingual videos sorted by function and task, with more being added.



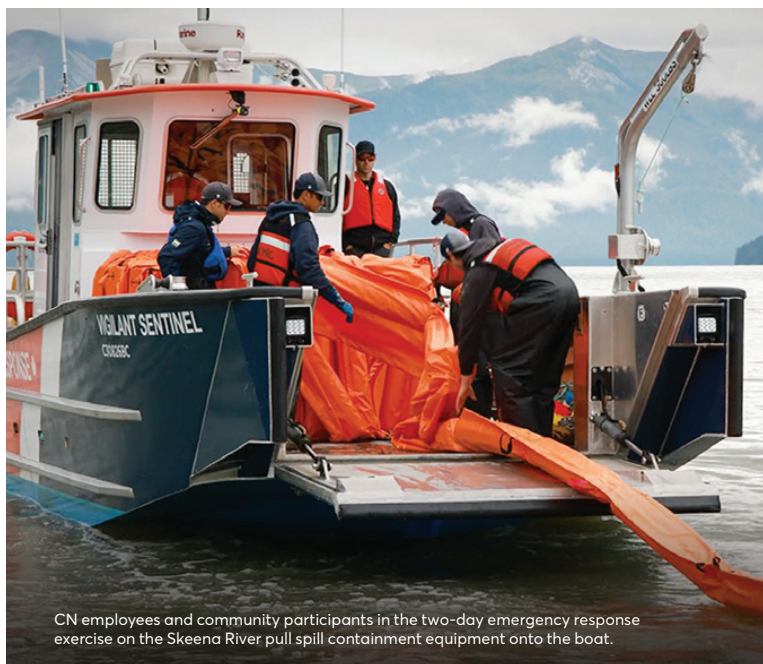
Avanthi Mullegama, Recruiter, Human Resources Talent Acquisition (left), and **Sarah Bastami**, Operations Coordinator, Human Resources, at CN headquarters in Montreal, QC.

TRAINING CAMPUSES INSTILL CN'S SAFETY CULTURE AND BEST PRACTICES

To reinforce a strong safety culture, CN leverages its two state-of-the-art training campuses in Winnipeg, MB, and Homewood, IL. At these campuses, in 2023, CN delivered hands-on and classroom training for all key railway jobs to approximately 7,200 new hires and experienced railroaders. They received training in modern indoor labs with equipment such as locomotive and walking simulators, as well as an industry-first indoor “slack” simulator for students to experience and apply the critical safety rules of always maintaining three points of contact — such as both feet and a firm hand grip — when on moving equipment or ascending/descending from heights. Outdoor labs are equipped with dedicated rolling stock, track and wayside equipment. CN also bolstered its robust employee and first responder training at both campuses with the addition of a mock derailment site. The simulation site enhances existing emergency response training designed to keep communities and our network safer.

TRANSCAERSM

For the 14th consecutive year, CN earned the TRANSCAER National Achievement Award for training nearly 6,000 responders a year.



CN employees and community participants in the two-day emergency response exercise on the Skeena River pull spill containment equipment onto the boat.

CN partners with communities on safety planning and preparedness

Throughout the year, CN collaborates with communities and first responders along its network to safely and proactively prepare for any emergencies. In August 2023, CN coordinated its largest-ever emergency response spill exercise. More than 75 participants from local First Nations, Transport Canada, the British Columbia government, local municipalities, multiple CN departments and emergency response partners converged in Prince Rupert for the two-day exercise. The goal: Discuss the response to a mock derailment in which petroleum is released into the Skeena River and determine the methods to contain and recover the oil. The Skeena River — the second-longest in British Columbia — sustains a wide variety of fish, wildlife, and vegetation, and communities native to the area depend on the health of the river.

“By collaborating and sharing information on BC’s spill contingency plan, and gaining critical local knowledge from our partners, we are now in a much stronger position to respond collectively to incidents in the future.

The work put into this event forged new positive Indigenous relationships with six Tsimshian nations and strengthened partnerships between all response agencies, contractors, and the First Nation communities.”

Mike Linder

CN Regional Manager, Environment, who organized the event

Read more: www.cn.ca/skeenariver



Project Together connects employees through music

Inspired by a goal to build CN's culture and bring teams together, a small group of employees imagined something new and different. The result was Project Together: A musical gift to remind all CN employees that they're stronger together and all connected as railroaders. The project came about in 2023 when nearly 70 employees responded to a call for musically-inclined CN railroaders to submit audition videos. A group of music producers selected and invited 14 of those employees to a professional studio in Nashville, TN, where they recorded the song "Together." Written and performed by CN employees, the song honours the lasting ties between railroaders and our communities, and it celebrates the connection created through music. Watch and listen to the song: www.cn.ca/together. It can also be found on Spotify, iTunes and most music streaming platforms.

"All of our participation (in Project Together) will help bridge a gap, because if you can imagine a company the size of CN, there are so many different personalities, and music is that one language that everyone understands...The fact is that we're all on the same team and we're building a cohesive team."

Timothy Evans
Rail Traffic Controller, Homewood, IL

EMPLOYEE RESOURCE GROUPS FOSTER AN INCLUSIVE CULTURE

CN's Employee Resource Groups (ERGs) continue to bring employees with similar backgrounds and interests together to share ideas and support one another. CN currently has eight ERGs:

- ADAPT (Allies of Diverse ABILITY Partnering Together)
- Indigenous ERG
- Latinos CN
- PACE (Pan-Asian Community Engagement)
- PRIDE (2SLGBTQIA+)
- RISE (Black/African American)
- Veterans at CN
- WE (Women Employees)

In the past year, the ERGs hosted events to help create a more forward-thinking, inclusive culture at CN. For example, CN's Pan-Asian ERG organized a Diwali event to educate about its significance and share in the celebration. To commemorate National Indigenous History Month and National Indigenous Peoples Day, CN's Indigenous ERG hosted a live and virtual event featuring traditional expressions of song, dance and storytelling with a focus on local First Nation and Inuit culture.

Other ERGs engaged fellow employees and hosted activities during other celebrations, including Black History Month, International Women's Day, Asian Heritage Month, Military Appreciation Month, Pride Month, Latin American/Hispanic Heritage Month, and the International Day of Persons with Disabilities. Having diverse perspectives on the team enables CN to better understand the needs of our various stakeholders and elevates everyone's decision-making thanks to a wider range of experiences and sensibilities.



CN encourages employees to donate and matches donations made through the CN Employees' and Pensioners' Community Fund. For the fund's 2024 campaign, employees and pensioners came together to raise \$2.14 million to benefit local communities and those in need.

BOARD OF DIRECTORS

As at March 4, 2024

Shauneen Bruder

Corporate Director and Chair of the Board
Canadian National Railway Company
Retired Executive
Vice-President, Operations
Royal Bank of Canada
COMMITTEES: 1, 2, 3, 4

Tracy Robinson

President and Chief Executive Officer
Canadian National Railway Company

Jo-ann dePass Olsovsky

Corporate Director and Retired
Executive Vice President and
Chief Information Officer
Salesforce.com
COMMITTEES: 1, 3*

David Freeman

Corporate Director and Retired
Executive Vice-President, Operations
BNSF
COMMITTEES: 2, 4

Denise Gray

Corporate Director and
Retired Director, External
Affairs & Government
Relations, North America
LG Energy Solution Michigan Inc., U.S.
COMMITTEES: 1, 2*

Justin M. Howell

Senior Investment Manager
Cascade Asset Management Co.
COMMITTEES: 2, 3, 4*

Susan C. Jones

Corporate Director and
Former Chief Executive Officer
Potash Business Unit, Nutrien Ltd.
COMMITTEES: 3, 4

Robert Knight

Corporate Director and
Retired Chief Financial Officer
Union Pacific
COMMITTEES: 1, 3

Michel Letellier

President and Chief Executive Officer
Innergex Renewable Energy, Inc.
COMMITTEES: 1, 2

Margaret A. McKenzie

Corporate Director and
Former Chief Financial Officer
Range Royalty Management Ltd
COMMITTEES: 1*, 2, 4

Al Monaco

Corporate Director and Retired
President and Chief Executive Officer
Enbridge Inc.
COMMITTEES: 2, 3

COMMITTEES:

- 1 Audit, Finance and Risk
 - 2 Governance, Sustainability and Safety
 - 3 Human Resources and Compensation
 - 4 Pension and Investment
- * Denotes chair of the committee

NOTABLE RECOGNITION FOR OUR PEOPLE

THE GLOBE AND MAIL*

2023 NEW CEO OF THE YEAR

Tracy Robinson, President and CEO

RAILWAY AGE

2024 RAILROADER OF THE YEAR

Tracy Robinson, President and CEO

WOMEN IN RAIL

La Shelle Pearson, Signals and
Communications Project Officer

WXN

TOP 100 MOST POWERFUL WOMEN – SKILLS TRADE CATEGORY

Cheyenne Lakatos, Locomotive
Engineer



WOMEN IN ENGINEERING

Andrea Berry, Senior Manager,
Advanced Technology Development

ENGINEER OF THE YEAR

Brent Laing, Vice-President,
Engineering



RISING STARS

Geetika Mahajan, Senior Manager,
Product and Strategy

Manny Salazar, Senior Director,
Mechanical Reliability and Support
Kriss Beudjekian, Senior Manager,
Network Operations



WOMEN IN RAIL

Nicole James, Vice-President,
Transportation, Western Region

GOVERNANCE

CN is committed to the highest standards of corporate governance, with an emphasis on shareholder engagement and transparency. How we deliver success is just as important as what we achieve. Therefore, we work diligently to bring integrity and excellence into everything we do. As a Canadian reporting issuer with securities listed on the Toronto Stock Exchange (TSX) and the New York Stock Exchange (NYSE), CN ensures its corporate governance practices comply with the highest standards and rules adopted by the Canadian Securities Administrators, applicable provisions of the U.S. Sarbanes Oxley Act of 2002 and related rules of the U.S. Securities and Exchange Commission. CN is exempted from complying with many of the NYSE corporate governance rules, provided it complies with Canadian governance requirements. Except as summarized on our website at www.cn.ca/governance, CN's governance practices comply with the NYSE corporate governance rules in all significant respects.

Consistent with the belief that ethical conduct goes beyond compliance and resides in a comprehensive governance culture, CN publishes and enforces its Corporate Governance Manual, Code of Business Conduct, Anti-Corruption Policy, Supplier Code of Conduct and Human Rights Policy. We also maintain several methods for employees and third parties to anonymously report accounting, auditing and other concerns.

CN is proud of the leadership demonstrated by its Board of Directors with respect to diversity. In January 2024 CN established that moving forward it aspires to maintain a Board composition in which independent Board members are comprised of at least 40% of each gender (male and female) and at least two members come from the broader underrepresented groups, beyond gender. Currently, five out of 10, or 50% of independent Board members are women and two, or 20% of independent Board members are from underrepresented groups.

CN has enhanced its stakeholder and rightsholder engagement approach, with an aim to further build trust, credibility, respect and reciprocity, while protecting our social license to operate. This includes our ongoing dialogue and engagement with Indigenous communities across our network. In 2023, as part of our Reconciliation journey, CN published a formal acknowledgement of the historical role railways played as instruments of colonial policies. CN also has a team of nine managers, with Indigenous and regional representation, who is working with CN leadership on creating a Reconciliation Action Plan (RAP) set to be released in 2024. CN is committed to continuing this journey, building awareness and understanding of Indigenous culture at CN, increasing economic opportunities and partnerships to grow CN's Indigenous supplier base, and establishing and strengthening our relationships to enhance our ability to attract Indigenous talent.

Our approach to sustainability is aligned with international standards, including the United Nations Global Compact, the Global Reporting Initiative, the Sustainability Accounting Standards Board, the World Bank Mobility Goals, and the Task Force on Climate-related Financial Disclosures. These expectations are integrated into our five sustainability pillars: Environment, Safety, People, Communities, and Governance.

For more information on CN's sustainability disclosures, visit: www.cn.ca/en/delivering-responsibly/

THE GLOBE AND MAIL

Earned 1st place out of 219 companies listed on the S&P/TSX Composite Index in 2023 for corporate governance with a score of 98% by the *Globe and Mail*.



SELECT EXECUTIVE OFFICERS

As at March 4, 2024



Tracy Robinson
President and
Chief Executive Officer



Ghislain Houle
Executive Vice-President
and Chief Financial Officer



Remi G. Lalonde
Executive Vice-President and
Special Advisor to the CEO



Doug MacDonald
Executive Vice-President
and Chief Marketing Officer



Dominique Malenfant
Executive Vice-President and Chief
Information and Technology Officer



Derek Taylor
Executive Vice-President and
Chief Field Operations Officer



Patrick Whitehead
Executive Vice-President and
Chief Network Operating Officer



Olivier Chouc
Senior Vice-President
and Chief Legal Officer



Janet Drysdale
Senior Vice-President and
Chief Stakeholder Relations Officer



Josée Girard
Senior Vice-President and
Chief Human Resources Officer



Patrick Lortie
Senior Vice-President
and Chief Strategy Officer

SHAREHOLDER AND INVESTOR INFORMATION

Annual meeting

The annual meeting of shareholders will be held online via webcast at 10:00 a.m. (EDT) on April 26, 2024.

Please refer to www.cn.ca for meeting details.

Annual information form

The annual information form may be obtained by writing to:

The Corporate Secretary
Canadian National Railway Company
935 de La Gauchetière Street West
Montreal, QC, Canada H3B 2M9

It is also available on CN's website (www.cn.ca).

Transfer agent and registrar

Computershare Trust Company of Canada

Offices in Canada:
Montreal, Quebec
Toronto, Ontario
Calgary, Alberta
Vancouver, British Columbia

Telephone: 1-800-564-6253
www.investorcentre.com

Co-transfer agent and co-registrar

Computershare Trust Company N.A.
Att: Stock Transfer Department

Overnight Mail Delivery: 462 South 4th Street, Louisville, KY,
United States 40202

Regular Mail Delivery: P.O. Box 505000, Louisville, KY,
United States 40233 5000

Telephone: 1-800-962-4284

Shareholder services

Shareholders having inquiries concerning their shares, wishing to obtain information about CN, or to receive dividends by direct deposit or in U.S. dollars may obtain detailed information by communicating with:

Computershare Trust Company of Canada
Shareholder Services
100 University Avenue, 8th Floor
Toronto, ON, Canada M5J 2Y1

Telephone: 1-800-564-6253
www.investorcentre.com

Stock exchanges

CN common shares are listed on the Toronto and New York stock exchanges.

Ticker symbols:
CNR Toronto Stock Exchange
CNI New York Stock Exchange

Investor relations

Stacy Alderson
Assistant Vice President, Investor Relations
Telephone: 514-399-5005

Head office

Canadian National Railway Company
935 de La Gauchetière Street West
Montreal, QC, Canada H3B 2M9

P.O. Box 8100
Montreal, QC, Canada H3C 3N4

SELECTED RAILROAD STATISTICS - UNAUDITED

	2023	2022	2021
Financial measures			
Key financial performance indicators ⁽¹⁾			
Total revenues (\$ millions)	16,828	17,107	14,477
Freight revenues (\$ millions)	16,236	16,569	13,888
Operating income (\$ millions)	6,597	6,840	5,616
Adjusted operating income (\$ millions) ⁽²⁾⁽³⁾	6,597	6,862	5,622
Net income (\$ millions)	5,625	5,118	4,899
Adjusted net income (\$ millions) ⁽²⁾⁽³⁾	4,800	5,134	4,225
Diluted earnings per share (\$)	8.53	7.44	6.90
Adjusted diluted earnings per share (\$ ⁽²⁾⁽³⁾	7.28	7.46	5.95
Free cash flow (\$ millions) ⁽²⁾⁽⁴⁾	3,887	4,259	3,296
Gross property additions (\$ millions)	3,217	2,757	2,897
Share repurchases (\$ millions)	4,551	4,709	1,582
Dividends per share (\$)	3.16	2.93	2.46
Financial ratios			
Operating ratio (%) ⁽⁵⁾	60.8	60.0	61.2
Adjusted operating ratio (%) ⁽²⁾⁽³⁾	60.8	59.9	61.2
Adjusted debt-to-adjusted EBITDA (times) ⁽²⁾⁽⁴⁾	2.25	1.86	1.82
Return on invested capital (ROIC) (%) ⁽²⁾⁽⁶⁾	16.8	15.8	16.4
Adjusted ROIC (%) ⁽²⁾⁽⁶⁾	14.5	15.9	14.1
Operational measures ⁽⁷⁾			
Statistical operating data			
Gross ton miles (GTMs) (millions)	452,043	463,710	458,401
Revenue ton miles (RTMs) (millions)	232,614	235,788	233,138
Carloads (thousands)	5,436	5,697	5,701
Route miles (includes Canada and the U.S., end of year)	18,800	18,600	19,500
Employees (end of year)	24,987	23,971	22,604
Employees (average for the year)	24,920	23,396	24,084
Key operating measures			
Freight revenue per RTM (cents)	6.98	7.03	5.96
Freight revenue per carload (\$)	2,987	2,908	2,436
GTMs per average number of employees (thousands)	18,140	19,820	19,033
Operating expenses per GTM (cents)	2.26	2.21	1.93
Labor and fringe benefits expense per GTM (cents)	0.70	0.63	0.63
Diesel fuel consumed (US gallons in millions)	395.2	402.2	405.2
Average fuel price (\$/US gallon)	4.62	5.42	3.28
Fuel efficiency (US gallons of locomotive fuel consumed per 1,000 GTMs)	0.874	0.867	0.884
Train weight (tons)	9,186	9,324	9,658
Train length (feet)	7,891	8,160	8,559
Car velocity (car miles per day)	213	196	195
Through dwell (entire railroad, hours)	7.0	7.6	7.9
Through network train speed (miles per hour)	19.8	18.9	19.2
Locomotive utilization (trailing GTMs per total horsepower)	191	197	198
Safety indicators ⁽⁸⁾			
Injury frequency rate (per 200,000 person hours)	0.96	1.10	1.36
Accident rate (per million train miles)	1.74	2.10	1.84

(1) Amounts expressed in Canadian dollars and prepared in accordance with United States generally accepted accounting principles (GAAP), unless otherwise noted.

(2) These non-GAAP measures do not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies.

(3) See the section of this MD&A entitled *Non-GAAP measures – Adjusted performance measures* for an explanation of these non-GAAP measures.

(4) See the section of this MD&A entitled *Liquidity and capital resources – Free cash flow and Adjusted debt-to-adjusted EBITDA multiple* for an explanation of these non-GAAP measures.

(5) Operating ratio is defined as operating expenses as a percentage of revenues.

(6) See the section of this MD&A entitled *Non-GAAP measures – ROIC and adjusted ROIC* for an explanation of these non-GAAP measures.

(7) Statistical operating data, key operating measures and safety indicators are unaudited and based on estimated data available at such time and are subject to change as more complete information becomes available. Definitions of gross ton miles, fuel efficiency, train weight, train length, car velocity, through dwell and through network train speed are included within the Company's Management's Discussion and Analysis. Definitions of all other indicators are provided on CN's website, www.cn.ca/glossary.

(8) Based on Federal Railroad Administration (FRA) reporting criteria.

Contents

Forward-looking statements	3
Introduction	4
2023 Highlights	5
2024 Business outlook and assumptions	7
Strategy overview	8
Human capital management	10
Financial highlights	14
2023 Results of operations	14
Non-GAAP measures	15
Revenues	20
Operating expenses	26
Other income and expenses	28
2022 Results of operations	29
Summary of quarterly financial data	36
2023 Fourth quarter operating results	36
Financial position	37
Liquidity and capital resources	38
Off balance sheet arrangements	48
Outstanding share data	48
Financial instruments	48
Recent accounting pronouncements	51
Critical accounting estimates	52
Business risks	59
Controls and procedures	67

MANAGEMENT'S DISCUSSION AND ANALYSIS

Forward-looking statements

Certain statements included in this MD&A are "forward-looking statements" within the meaning of the *United States Private Securities Litigation Reform Act of 1995* and under Canadian securities laws, including statements based on management's assessment and assumptions and publicly available information with respect to CN. By their nature, forward-looking statements involve risks, uncertainties and assumptions. CN cautions that its assumptions may not materialize and that current economic conditions render such assumptions, although reasonable at the time they were made, subject to greater uncertainty. Forward-looking statements may be identified by the use of terminology such as "believes", "expects", "anticipates", "assumes", "outlook", "plans", "targets" or other similar words.

Forward-looking statements include, but are not limited to, those set forth in the table below, which also presents key assumptions used in determining the forward-looking statements. See also the section of this MD&A entitled *2024 Business outlook and assumptions*.

Forward-looking statements	Key assumptions
Statements relating to revenue growth opportunities, including those referring to general economic and business conditions	<ul style="list-style-type: none">• North American and global economic growth in the long term• Long-term growth opportunities being less affected by current economic conditions• No material disruption of CN's operations or of the economy's supply chains as a result of pandemics or geopolitical conflicts and tensions
Statements relating to the Company's ability to meet debt repayments and future obligations in the foreseeable future, including income tax payments, and capital spending	<ul style="list-style-type: none">• Adequate credit ratios• Investment-grade credit ratings• Access to capital markets• Adequate cash generated from operations and other sources of financing
Statements relating to pension contributions	<ul style="list-style-type: none">• Adequate cash generated from operations and other sources of financing• Adequate long-term return on investment on pension plan assets• Level of funding as determined by actuarial valuations, particularly influenced by discount rates for funding purposes

Forward-looking statements are not guarantees of future performance and involve risks, uncertainties and other factors which may cause actual results, performance or achievements of CN to be materially different from the outlook or any future results, performance or achievements implied by such statements. Accordingly, readers are advised not to place undue reliance on forward-looking statements. Important risk factors that could affect the forward-looking statements include, but are not limited to, general economic and business conditions, including factors impacting global supply chains such as pandemics and geopolitical conflicts and tensions; industry competition; inflation, currency and interest rate fluctuations; changes in fuel prices; legislative and/or regulatory developments; compliance with environmental laws and regulations; actions by regulators; increases in maintenance and operating costs; security threats; reliance on technology and related cybersecurity risk; trade restrictions or other changes to international trade arrangements; transportation of hazardous materials; various events which could disrupt operations, including illegal blockades of rail networks, and natural events such as severe weather, droughts, fires, floods and earthquakes; climate change; labor negotiations and disruptions; environmental claims; uncertainties of investigations, proceedings and other types of claims and litigation; risks and liabilities arising from derailments; timing and completion of capital programs; the availability of and cost competitiveness of renewable fuels and the development of new locomotive propulsion technology; reputational risks; supplier concentration; pension funding requirements and volatility; and other risks detailed from time to time in reports filed by CN with securities regulators in Canada and the U.S., including its Annual Information Form and Form 40-F. See the section entitled *Business risks* of this MD&A for a description of major risk factors relating to CN.

Forward-looking statements reflect information as of the date on which they are made. CN assumes no obligation to update or revise forward-looking statements to reflect future events, changes in circumstances, or changes in beliefs, unless required by applicable securities laws. In the event CN does update any forward-looking statement, no inference should be made that CN will make additional updates with respect to that statement, related matters, or any other forward-looking statement. Information contained on, or accessible through, our website is not incorporated by reference into this MD&A.

Introduction

This Management's Discussion and Analysis (MD&A) dated January 31, 2024, relates to the consolidated financial position and results of operations of Canadian National Railway Company, together with its wholly-owned subsidiaries, collectively "CN" or the "Company," and should be read in conjunction with the Company's 2023 Annual Consolidated Financial Statements and Notes thereto. All financial information reflected herein is expressed in Canadian dollars and prepared in accordance with United States generally accepted accounting principles (GAAP), unless otherwise noted.

CN's common shares are listed on the Toronto and New York stock exchanges. Additional information about CN filed with Canadian securities regulatory authorities and the United States Securities and Exchange Commission (SEC), including the Company's 2023 Annual Information Form and Form 40-F, may be found online on SEDAR+ at www.sedarplus.ca, on the SEC's website at www.sec.gov through EDGAR, and on the Company's website at www.cn.ca in the Investors section. Printed copies of such documents may be obtained by contacting CN's Corporate Secretary's Office.

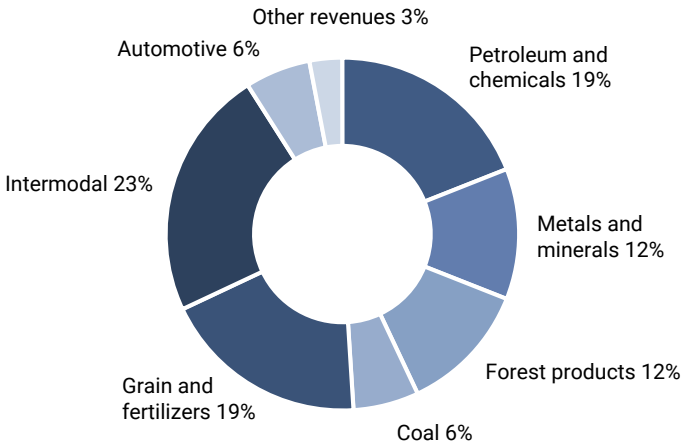
Business profile

CN is engaged in the rail and related transportation business. CN's network of 18,800 route miles of track spans Canada and the United States of America (U.S.), connecting Canada's Eastern and Western coasts with the U.S. South. CN's extensive network and efficient connections to all Class I railroads provide CN customers access to Canada, the U.S. and Mexico. Essential to the economy, to the customers, and to the communities it serves, CN safely transports more than 300 million tons of cargo annually, serving exporters, importers, retailers, farmers and manufacturers. CN and its affiliates have been contributing to community prosperity and sustainable trade since 1919. CN is committed to programs supporting social responsibility and environmental stewardship.

CN's freight revenues are derived from seven commodity groups representing a diversified and balanced portfolio of goods transported between a wide range of origins and destinations. This product and geographic diversity better position the Company to face economic fluctuations and enhances its potential for growth opportunities. For the year ended December 31, 2023, CN's largest commodity group, Intermodal, accounted for 23% of total revenues. From a geographic standpoint, 34% of revenues relate to overseas traffic, 32% to transborder traffic, 18% to Canadian domestic traffic and 16% to U.S. domestic traffic. The Company is the originating carrier for over 85%, and the originating and terminating carrier for over 65%, of traffic moving along its network, which allows it both to capitalize on service advantages and build on opportunities to efficiently use assets.

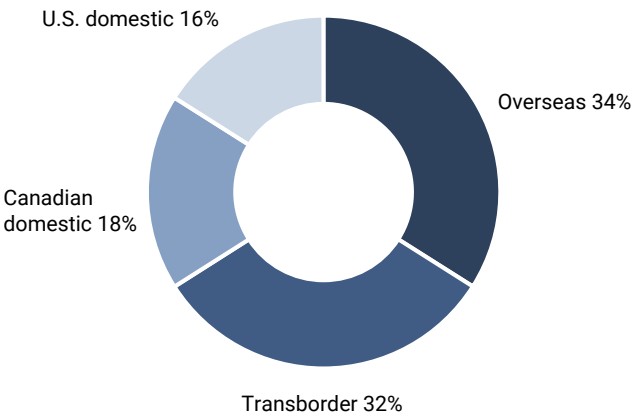
Business Unit Revenue Mix

% of 2023 Revenues



Traffic by Geography

% of 2023 Revenues



MANAGEMENT'S DISCUSSION AND ANALYSIS

Corporate organization

The Company manages its rail operations in Canada and the U.S. as one business segment. Financial information reported at this level, such as revenues, operating income and cash flow from operations, is used by the Company's corporate management in evaluating financial and operational performance and allocating resources across CN's network. The Company's strategic initiatives are developed and managed centrally by corporate management and are communicated to its regional activity centers (the Western Region, Eastern Region and U.S. Region), whose role is to manage the day-to-day service requirements of their respective territories, control direct costs incurred locally, and execute the strategy and operating plan established by corporate management.

See Note 24 – *Segmented information* to the Company's 2023 Annual Consolidated Financial Statements for additional information on the Company's corporate organization, as well as selected financial information by geographic area.

2023 Highlights

Financial results - 2023 compared to 2022

- Revenues of \$16,828 million, a decrease of \$279 million, or 2%.
- Operating income of \$6,597 million, a decrease of \$243 million, or 4%.
- Operating ratio, defined as operating expenses as a percentage of revenues, of 60.8%, an increase of 0.8 points, or an increase of 0.9 points on an adjusted basis. ⁽¹⁾⁽²⁾
- Net income of \$5,625 million, an increase of \$507 million, or 10% and adjusted net income of \$4,800 million, a decrease of \$334 million, or 7%. ⁽¹⁾⁽²⁾
- Diluted earnings per share (EPS) of \$8.53, an increase of 15% and adjusted diluted EPS of \$7.28, a decrease of 2%. ⁽¹⁾⁽²⁾
- The Company generated free cash flow of \$3,887 million, a 9% decrease. ⁽¹⁾⁽³⁾
- ROIC of 16.8%, an increase of 1.0-point and adjusted ROIC of 14.5%, a decrease of 1.4 points. ⁽¹⁾⁽⁴⁾

Operating performance - 2023 compared to 2022

- Injury frequency rate at a record low of 0.96 (per 200,000 person hours), an improvement of 13%.
- Accident rate of 1.74 (per million train miles), an improvement of 17%.
- Through dwell of 7.0 (entire railroad, hours), an improvement of 8%.
- Car velocity of 213 (car miles per day), an improvement of 9%.
- Through network train speed of 19.8 (mph), an improvement of 5%.
- Fuel efficiency of 0.874 (US gallons of locomotive fuel consumed per 1,000 gross ton miles (GTMs)), less efficient by 1%.
- Train length of 7,891 (feet), a decrease of 3%.
- Revenue ton miles (RTMs) of 232,614 (millions), a decrease of 1%.

(1) These non-GAAP measures do not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies.

(2) See the section of this MD&A entitled *Non-GAAP measures – Adjusted performance measures* for an explanation of these non-GAAP measures.

(3) See the section of this MD&A entitled *Liquidity and capital resources – Free cash flow* for an explanation of this non-GAAP measure.

(4) See the section of this MD&A entitled *Non-GAAP measures – ROIC and adjusted ROIC* for an explanation of these non-GAAP measures.

2023 Financial outlook

During the year, the Company issued and updated its 2023 financial outlook. The 2023 actual results were in line with the Company's last 2023 outlook that was updated on July 25, 2023.

Recent developments

Business acquisitions and combinations

Iowa Northern Railway Company

On December 6, 2023, the Company acquired the shares of the Iowa Northern Railway Company (IANR), a Class III short-line railroad that owns and leases approximately 175 route miles in northeast Iowa that are connected to CN's U.S. rail network. CN paid US\$230 million (\$312 million), including transaction costs to date. IANR serves upper Midwest agricultural and industrial markets covering many goods, including biofuels and

MANAGEMENT'S DISCUSSION AND ANALYSIS

grain. This transaction represents a meaningful opportunity to support the growth of local business by creating single-line service to North American destinations, while preserving access to existing carrier options.

The shares of IANR were deposited into an independent voting trust while the U.S Surface Transportation Board (STB) considers the Company's application to acquire control of IANR. During the trust period, IANR will continue to be operated under its current management and the Company cannot exercise day-to-day control. As a result, the Company recorded its investment in IANR at its acquisition cost under the equity method of accounting. Subject to final approval by the STB, the Company would obtain control of IANR and would account for the acquisition as a business combination under the acquisition method of accounting.

On the acquisition date of December 6, 2023, immediately prior to the acquisition, there was a basis difference of \$236 million between the consideration paid to acquire IANR and the underlying carrying value of the net assets of IANR. The basis difference related to depreciable properties and if any, intangible assets with definite lives will be amortized over the related assets' remaining useful lives. The remainder of the basis difference, relating to land, intangible assets with indefinite lives if any, and equity method goodwill, would not be amortized and would be carried at cost subject to an assessment for impairment. The estimated fair value of IANR's underlying net assets is preliminary based on information available to the Company to date and subject to change over the measurement period, which may be up to twelve months from the acquisition date.

Cape Breton & Central Nova Scotia Railway

On November 1, 2023, the Company acquired from Genesee & Wyoming Inc. a stake in the Cape Breton & Central Nova Scotia Railway (CBNS), a Class III short-line railroad that owns approximately 150 route miles. CN paid \$78 million in cash, net of cash acquired and including working capital adjustments. The acquisition was accounted for as a business combination. As a result, the Company's Consolidated Balance Sheet includes the net assets of CBNS as of November 1, 2023, which were comprised of \$101 million in fair value of properties mostly track and roadway assets, partly offset by \$18 million in deferred tax liabilities. The remaining net assets were comprised of current assets and liabilities which were individually insignificant and there were no identifiable intangible assets. No goodwill was recognized. The fair value of CBNS's underlying net assets has been estimated on a preliminary basis and may be subject to change as additional information becomes available over the next twelve months.

Canadian regulatory update

On June 22, 2023, Bill C-47 an Act to implement certain provisions of the budget tabled in Parliament on March 28, 2023, received Royal Assent and the proposed amendments to the Canada Transportation Act were adopted. These amendments provide for the extension of the interswitching limits located in the Prairie provinces from 30 kilometers to 160 kilometers. This extension will be in force for a trial period of 18 months. On November 24, 2023 the Canadian Transportation Agency (CTA) established interswitching rates for 2024. On December 22, 2023, the Company sought leave to appeal this decision on rates. No assurance can be given that these and any other current or future regulatory or legislative initiatives by the Canadian federal government and agencies will not materially adversely affect the Company's results of operations or its competitive and financial position.

U.S. regulatory update

On September 7, 2023, the STB proposed new regulations for reciprocal switching for inadequate service. Under the STB's proposal, the new rule allows customers to obtain reciprocal switching access to an alternate carrier in a terminal area if the incumbent railroad's service falls below one of three objective metrics (original estimated time of arrival, transit time, and first-mile/last-mile service) and if certain other conditions are met. The STB has proposed that if a reciprocal switch were granted for a facility in the United States, that switch would be available for a period between two to four years and could be renewed. In addition, the STB also closed consideration of a 2016 proposal to amend its existing regulations for reciprocal switching to increase competition, which was the subject of a public hearing in 2022. Comments were submitted in November and December 2023, and the STB members conducted meetings with stakeholders. No assurance can be given that these and any other current or future regulatory or legislative initiatives by the U.S. federal government and agencies will not materially adversely affect the Company's results of operations or its competitive and financial position.

Labor workforce and negotiations - Canada

On May 1, 2023, the collective agreement with Unifor was ratified by its members, renewing the collective agreement for a two-year term, retroactive to January 1, 2023, which will expire on December 31, 2024. Unifor represents approximately 3,400 employees in Canada working in various departments such as Mechanical, Intermodal, Facility Management, and in clerical positions.

MANAGEMENT'S DISCUSSION AND ANALYSIS

On May 26, 2023, the collective agreement with Teamsters Canada Rail Conference (TCRC) was ratified by its members, renewing the collective agreement for a one-year term, retroactive to January 1, 2023, which expired on December 31, 2023. TCRC represents approximately 6,000 employees in Canada working as Locomotive Engineers, Yard Coordinators and Yard Conductors on our mainline, short lines and yards. Bargaining commenced on November 27, 2023.

On September 6, 2023, the United Steel Workers Union (USW) served notice to commence bargaining for the renewal of the collective agreement with the Company, governing approximately 2,500 bridge and structures and work equipment employees in Canada, which expired on December 31, 2023. Bargaining commenced on October 23, 2023.

On January 17, 2024, CN reached a tentative agreement with owner-operators affiliated with Unifor. The four-year agreement covers approximately 750 owner-operator truck drivers in Canada under contract with Canadian National Transportation Limited, a wholly owned subsidiary of the Company, until December 31, 2027. Ratification by the membership is expected in the first quarter of 2024.

The Company's collective agreements remain in effect until the bargaining process outlined under the Canada Labor Code has been exhausted.

Leadership changes

On January 8, 2024, CN announced that Remi G. Lalonde was appointed as CN's Executive Vice-President and Special Advisor to the CEO, in anticipation of his transition to the role of Executive Vice-President and Chief Commercial Officer (CCO). Mr. Lalonde will succeed Doug MacDonald, Executive Vice-President and Chief Marketing Officer, who will remain in his current role until Mr. Lalonde's transition is completed later this year.

On October 18, 2023, CN announced that Patrick Whitehead was appointed as CN's Executive Vice-President and Chief Network Operating Officer and Derek Taylor was appointed as CN's Executive Vice-President and Chief Field Operating Officer effective November 15, 2023. Mr. Whitehead and Mr. Taylor succeed Edmond (Ed) Harris who has taken on a consultant role until March 31, 2024 to ensure a seamless transition.

Future value creation

On January 23, 2024, the Company's Board of Directors approved a new Normal Course Issuer Bid (NCIB) that allows for the repurchase of up to 32.0 million common shares between February 1, 2024 and January 31, 2025. In addition, on that same day, the Company's Board of Directors approved an increase of 7% to the quarterly dividend to common shareholders, from \$0.7900 per share in 2023 to \$0.8450 per share in 2024, effective for the first quarter.

2024 Business outlook and assumptions

The Company assumes slightly positive North American industrial production in 2024. For the 2023/2024 crop year, the grain crop in Canada was below its three-year average (also below when excluding the significantly lower 2021/2022 crop year) and the U.S. grain crop was above its three-year average. The Company assumes that the 2024/2025 grain crop in Canada will be in line with its three-year average (excluding the significantly lower 2021/2022 crop year) and the U.S. grain crop will also be in line with its three-year average.

In 2024, the Company expects to invest approximately \$3.5 billion in its capital program, net of amounts reimbursed by customers, to improve the safety, efficiency and integrity of its network. These investments are intended to also enable and support the growth of the Company and will be financed with cash generated from operations or with cash from financing activities.

The forward-looking statements discussed in this section are subject to risks and uncertainties that could cause actual results or performance to differ materially from those expressed or implied in such statements and are based on certain factors and assumptions which the Company considers reasonable about events, developments, prospects and opportunities that may not materialize or that may be offset entirely or partially by other events and developments. In addition to the assumptions and expectations discussed in this section, reference should be made to the section of this MD&A entitled *Forward-looking statements* for assumptions and risk factors affecting such statements.

Strategy overview

CN's purpose is to power the economy by enabling global supply chains and moving goods sustainably and efficiently, working together with our customers, our people, and the communities in which we operate. CN is committed to delivering a safe, consistent and reliable scheduled service that creates value for customers, shareholders and stakeholders. In 2023, CN continued its "back to basics" approach, re-establishing a disciplined scheduled operation. CN's "make the plan, run the plan, sell the plan" operating approach has driven strong operational, safety, and customer service outcomes.

CN aims to drive consistent shareholder returns and earnings growth by striving for sustainable financial performance, including profitable top-line growth, strong free cash flow generation and return on invested capital well above the Company's cost of capital. CN also returns value to shareholders through dividend payments and share repurchases.

Build service excellence, grow our business and invest in our people

Going forward, CN will continue to focus on sustaining and building service excellence, growing the business and developing our people. Providing reliable and efficient customer service is the foundation for growth. CN aims to leverage its strong customer service and operating efficiency of rail to grow the business profitably. CN continues to invest in the safety and fluidity of the network, and in increasing capacity to cost effectively grow volumes. CN is also investing to drive incremental fuel and carbon efficiency and to improve network resiliency. Critical to CN's long-term success are also the people investments being made to ensure the optimal workforce, with the right skills and leadership capabilities, are available to meet the challenges of tomorrow.

Delivering Responsibly

Sustainability is at the heart of how CN is building for the future. *Delivering Responsibly* is the encapsulation of the Company's sustainability strategy and commitments. The Company is focused on transporting goods safely and efficiently, doing so in a manner that seeks to minimize the impact on the environment, attracting, retaining and engaging top talent, and helping to build stronger, safer communities, while adhering to the highest governance standards. CN understands that transparency is essential for stakeholder trust concerning the Company's Environmental, Social and Governance (ESG) commitments. In that regard, CN seeks to align its ESG disclosures with global best practice frameworks, reporting on commitments and performance with focus, clarity and comparability. In 2023, CN published its latest biennial sustainability report, outlining the Company's targets, programs and achievements in corporate governance, environment, safety, people, community involvement and stakeholder engagement. CN is proud of its 2023 accomplishments as the Company's sustainability practices earned it a place on the Dow Jones Sustainability World and North American Indices, for the 12th and 15th consecutive year, respectively.

Safety is a core value

CN is committed to the health and safety of its employees, the communities and environments in which it operates and the customers it serves. The Company embraces a values-based safety culture. CN's objective is to reduce serious injuries and fatalities. The Company is employing advanced technologies and innovative training to help achieve this goal. More specifically, CN is:

- Fostering an engaged workforce that understands and respects *Life Critical Rules*.
- Embedding a mindset whereby employees take ownership for their own safety and the safety of others by *Looking Out for Each Other*.
- Training employees to identify and mitigate exposures.
- Using advanced technologies to proactively mitigate human error and reduce risk.
- Maintaining reliable and safe equipment and infrastructure.
- Investing in employee training, coaching, recognition and engagement initiatives.

See the section of this MD&A entitled *Human capital management - Health and safety* for additional information regarding CN's safety initiatives.

Tackling the impact of climate change

The Company's goal is to conduct its operations in a way that seeks to minimize environmental impact, while offering a carbon-efficient and sustainable way to move goods. CN is focused on making a positive contribution in the fight against climate change and playing a key role in the transition to a lower-carbon economy.

MANAGEMENT'S DISCUSSION AND ANALYSIS

With approximately 85% of its direct greenhouse gas (GHG) emissions generated from rail operations, CN focuses on five key strategic areas: fleet renewal, innovative technology, big data, operating practices and cleaner fuels. Over the years, this focus has resulted in significant progress in decoupling volume growth from carbon emissions intensity. CN continues to maintain its leadership position among Class I North American railways, generating approximately 15% less locomotive GHG emissions per gross ton mile than the industry average. CN was also the first North American railway, and among the first 100 companies globally, to announce an approved science-based climate target. CN aims to reduce GHG emissions in line with the Paris Agreement and in 2021, committed to setting a net-zero target by joining the "Business Ambition for 1.5 °C" and the United Nations' "Race to Zero" campaign.

To achieve its decarbonization targets, CN will need to continue improving the fuel efficiency of its fleets, increase its use of sustainable renewable fuels and test, and eventually deploy alternative propulsion locomotive technologies. Collaboration with suppliers, customers, supply chain partners, innovators and regulators is critical for CN to deliver on its climate commitments and to help drive economic prosperity in a lower-carbon emissions environment.

The Company's CDP Report, including a Task Force on Climate-related Financial Disclosures (TCFD) index, is available on CN's website in the *Delivering Responsibly* section. Information contained on, or accessible through, our website is not incorporated by reference into this MD&A.

Building the talent and culture to drive CN's continuous performance

CN people have always been the Company's most important differentiator, caring passionately about railroading and bringing optimism, commitment and resilience to daily tasks. CN aims to attract, develop, and retain the very best talent, with a focus on a diverse and inclusive work environment where employees are engaged, inspired and motivated. CN trains its employees with the necessary skills for an increasingly automated and data-driven work environment.

See the section of this MD&A entitled *Human capital management* for additional information regarding CN's human capital initiatives.

Community engagement

At CN, we are committed to being good neighbors who listen, learn, and do our part to help build safer, stronger, more prosperous communities. Connecting Canada's Eastern and Western coasts with the U.S. Gulf Coast, CN spans eight provinces, 16 states, and operates within or adjacent to nearly 230 reserve lands of more than 120 First Nations and Métis communities in Canada, seven Tribal communities in the United States, and more than 2,000 towns and cities across its network. CN plays an essential role and contributes to economic prosperity through job creation, investments and freight transportation services. The Company seeks open and proactive engagement to ensure stakeholders and Indigenous communities are aware of its strategy, operations, opportunities and obligations, and aims to foster effective two-way communications that ensures a respectful and beneficial exchange.

CN also partners with communities to enhance railway safety. Under CN's structured *Community Engagement* program, the Company engages with municipal officers and their emergency responders to assist them in their emergency response planning. During this frequent outreach, CN discusses its comprehensive safety programs and performance, the nature, volume and economic importance of dangerous goods it transports through their communities and emergency response planning. CN annually conducts hundreds of training events for thousands of emergency responders, totaling over 130,000 first responders since 1988. Additional training sites have been constructed to offer onsite full scale dangerous goods training.

The outreach builds on CN's involvement in *Transportation Community Awareness and Emergency Response* (TRANSCAER®), through which the Company has been working for many years to help communities in Canada and the U.S. understand the movement of hazardous materials and what is required in the event of transportation incidents. *All Aboard for Safety* is CN's flagship community education program. Every year, CN employees make hundreds of presentations and talk to thousands of children and adults at schools and community events in Canada and the U.S. about the importance of rail safety and the dangers of walking or playing on or near railway tracks.

As part of CN's year-round outreach effort, the CN Police Service continues to be active in communities across the CN network to promote safe behavior around railroad infrastructure. Activities include conducting enforcement initiatives with external agencies and delivering safety presentations to high-risk groups. During the industry's annual *Rail Safety Week* campaign, CN police officers and other employees, in partnership with Operation Lifesaver®, participate in numerous safety initiatives to raise awareness about preventing accidents and injuries around railway property.

MANAGEMENT'S DISCUSSION AND ANALYSIS

CN believes another way to help build more sustainable communities is to actively contribute financially through its *CN Stronger Communities Fund* to organizations, programs and initiatives that promote diversity and inclusion, innovation and safety, education, environmental protection, and many other causes such as food banks, homeless shelters, domestic violence shelters, healthcare centers, and anti-poverty organizations.

CN is proud of its employees, retirees and their families who volunteer to make their communities better places to live, work and play. The *CN Railroaders in the Community* program recognizes these acts of kindness by providing grants to the community-based not-for-profit organizations employees (current, retired or family) choose to support through their volunteer efforts. CN also encourages employee community involvement through its annual volunteer *CN In Your Community Day*.

Working alongside Indigenous communities, CN makes it a priority to strengthen its ties, cultivate respectful and mutually beneficial relationships, and work toward reconciliation. CN continues to engage in open dialogue with Indigenous communities, identify and foster business opportunities, increase our employees' awareness and understanding of Indigenous culture, and enhance its ability to attract Indigenous talent. CN provides awareness training on Indigenous culture, beliefs, and history to its employees to foster an inclusive work environment. Since the program began in 2014, more than 24,000 employees have completed the training.

Disciplined capital allocation and execution

CN's success depends on a steady stream of capital investments that are aligned with and support its business strategy. These investments cover a wide range of areas, from track infrastructure and rolling stock to information and operating technologies, as well as other equipment and assets that are intended to improve the safety, efficiency, capacity and reliability of CN's service offering. Investments in track infrastructure are designed to enhance the safety and integrity of the physical plant, increase the capacity and fluidity of the network, promote service excellence, and support growth. New locomotives equipped with distributed power capability increase capacity, fuel and carbon productivity and efficiency, and improve service reliability, particularly in cold weather, while improving train handling and safety. Targeted railcar acquisitions aim to tap growth opportunities, complementing the fleet of privately owned railcars that traverse CN's network. CN is also investing in and deploying advanced technologies to automate labor-intensive tasks like track and railcar inspections, as well as to improve the customer experience through 'track and trace' functionality. CN's long-term economic viability depends on the presence of a supportive regulatory and government policy environment that encourages investment and innovation.

The multi-year implementation of CN's strategic plan requires a disciplined, analysis-driven approach to capital investment. Talent, technology and capital need to be fully aligned. The Company's capital investment roadmap includes several core elements:

- Investing in the maintenance of a safe and reliable network.
- Investing in asset infrastructure to increase the capacity of its three-coast network.
- Developing a portfolio approach to technology with business-led investment decisions, delivering value at each stage of implementation.
- Deepening supply chain partnerships with its customers, including road-to-rail conversion.
- Investing in data analytic systems, including artificial intelligence (AI), to support data-driven decision-making.
- Investing in technologies and capital assets to support decarbonization of its footprint.
- Growing its physical and commercial reach through strategic partnerships and acquisitions.

Human capital management

CN's ability to develop the best railroaders in the industry has been a key contributor to the Company's success. CN recognizes that without the right people, no matter how good a service plan or business model a company may have, it will not be able to fully execute. The Company continues to focus on hiring the right people, onboarding them successfully, helping them build positive relationships with their colleagues and supporting all employees to grow and develop, while deepening its commitment to develop talent and plan for the future.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Governance

CN's Senior Vice President and Chief Human Resources Officer has leadership accountability for the Company's workforce policies and programs and reports directly to the CEO. CN's Board and its committees, including the Governance, Sustainability and Safety Committee and Human Resources and Compensation Committee (HRCC) provide oversight of the Company's human capital management strategies, programs, practices and performance. The HRCC is responsible for monitoring executive management's performance assessment, compensation and succession planning as well as ensuring effective talent management and monitoring union relations and strategy for consistency with CN's strategic direction. The HRCC also has the mandate to review human resources practices and policies by ensuring, amongst other things, that appropriate human resources programs, practices and systems are in place so that the Company can attract, motivate and retain the quality and diversity of employees required to meet its business objectives. The Company's senior management provides regular briefings on human capital matters to the Board and its committees to facilitate oversight.

The Board of Directors and management are committed to maintaining and instilling a strong ethical culture at CN, and as such, have developed a solid ethics program based on CN's core values of integrity and respect. Each director, executive officer and management employee must certify annually their compliance with the Code of Business Conduct and employees are required to complete an online training course on the Code of Business Conduct. Integrity training is also part of every new employee's onboarding program. In addition, Anti-Fraud Policy and Guidelines apply to all employees of CN and its wholly owned subsidiaries and set out steps to be taken in response to reported or suspected fraud in all its forms, as well as measures that are taken to identify, prevent and manage fraud-related risks.

Total employees

As at December 31, 2023, CN employed a total of 18,162 employees in Canada (2022 – 17,392), of which 13,346, or 73%, were unionized employees (2022 – 12,841, or 74%) and 6,825 employees in the U.S. (2022 – 6,579) of which 5,786, or 85%, were unionized employees (2022 – 5,571, or 85%).

Canadian workforce

As of January 31, 2024, three of the eight collective agreements in Canada are open for negotiation. See the section of this MD&A entitled *2023 Highlights - Recent developments* for additional information regarding labor negotiations. The Company's collective agreements remain in effect until the bargaining process outlined under the Canada Labor Code has been exhausted.

U.S. workforce

As of January 31, 2024, collective agreements covering all non-operating and operating craft employees at Grand Trunk Western Railroad Company (GTW), companies owned by Illinois Central Corporation (ICC), companies owned by Wisconsin Central Ltd. (WC) and Bessemer & Lake Erie Railroad Company (BLE), and all employees at Pittsburgh and Conneaut Dock Company (PCD) were ratified and remain in place. The agreements in place have various moratorium provisions, which preserve the status quo with respect to the given collective agreement during the terms of such moratoriums. Where negotiations are ongoing, the terms and conditions of existing agreements generally continue to apply until new agreements are reached or the processes of the Railway Labor Act have been exhausted. The general approach to labor negotiations by U.S. Class I railroads is to bargain on a collective national basis with the industry, which GTW, ICC, WC and BLE currently participate in, for collective bargaining agreements covering all union-represented employees.

Health and safety

CN has an uncompromising commitment to the health and safety of its employees, the customers it serves, and the communities and environments in which it operates. The Company's long-term safety improvement is driven by continued investments in infrastructure, rigorous safety processes and exposure reduction efforts, as well as efforts to continue deepening the Company's safety culture. The attainment of annual accident and injury targets is a component of management's annual incentive bonus plan. The Company's injury frequency rate and accident rate, defined according to the criteria of the Federal Railroad Administration (FRA), are provided for the entire company's operations and are publicly disclosed on a quarterly basis. See the section of this MD&A entitled *Selected railroad statistics* for additional information on CN's safety measures.

CN's culture and commitment to safety is supported by its focus on training, leadership, and technology. CN's Safety Management System is the framework for putting safety at the center of its day-to-day operations. This proactive plan is designed to minimize risk, drive continuous improvement in the reduction of injuries and accidents, and engage employees at all levels of the organization.

MANAGEMENT'S DISCUSSION AND ANALYSIS

The *Looking Out For Each Other* peer-to-peer engagement program focuses on raising awareness among all employees of the top causes of incidents and injuries, identifying and reviewing safe work procedures, training employees to be aware of their surroundings and recognize potential at-risk work practices, teaching employees how to provide constructive feedback to their peers and learning from past incidents. The Company's *Life Critical Rules* address the day-to-day activities that have the potential to cause serious harm or even loss of life. They are based on past incidents and are designed to help ensure they do not happen again. CN's safety leadership training program is heavily focused on teaching employees the importance of controlling exposures to risk and on developing the attitudes and behaviors required for a values-driven safety culture.

CN also continues to leverage new technology to drive improved safety performance including installing powerful sensor and AI technology into specially equipped autonomous track inspection cars positioned in existing train service, enabling track inspections at normal track speed. AI technology is also enhancing how CN inspects its railcar fleet. Automated inspection portals feature ultra-high-definition cameras that capture a 360° view of a train as it travels through at track speed. Both these innovations in automation increase inspection frequency and quality and play an important role in preventing incidents. CN has also implemented Electronic Track Authority Verification (ETAV), a geospatial navigation aid application that improves safety by leveraging precise location information to warn track maintenance vehicle operators of approaching or exceeded limits of Track Authority (TA).

CN strives for continuous improvement in our environmental, health, safety, and security (EHS&S) performance and is proud to be a long-standing Responsible Care® Partner. Triennially, CN undergoes a Responsible Care® audit conducted by an external audit team to ensure CN's processes, programs and policies meet the rigorous Responsible Care® Management System Specifications, Guiding Principles and Stewardship Codes.

CN works closely with all of its customers and suppliers to ensure adherence to *Life Critical Rules* where applicable, and to encourage a shared commitment to a values-based safety culture.

Talent management

Attraction and recruitment

CN continues to align its talent strategies to the business objectives, by focusing on acquiring as well as developing the various skills and capabilities required to meet its commitments, address challenges, and ensure a solid bench of talent to mitigate risk. CN recruits and hires talent with a broad range of strengths, perspectives and experiences, while also engaging with partners across our network, including Indigenous and other equity-seeking groups to ensure CN reflects the communities it crosses. Over the last year, similar to other organizations, CN has had to compete extensively to attract talent, however its refreshed early career strategy with partner universities and its community engagement and partnerships with diversity organizations across Canada and the U.S., has helped create strong visibility of our jobs and opportunities.

Once again in 2023, CN was recognized as one of Canada's Top 100 Employers and Montreal's Top Employers and also listed as one of Canada's best Diversity Employers by Mediacorp Canada Inc.

Training and development

CN offers a variety of training programs, which cover regulatory or CN mandated requirements or are part of an employee's learning journey and development. This ensures that its employees are equipped to perform in their roles and prepare for career advancement opportunities, as required.

The Company offers trainings in technical, business and leadership programs, with either online, e-learning or virtually-led courses, and, when possible, through in-person sessions. People leaders are supported in building the skills and knowledge needed to successfully perform at each level and this includes a focus on enhancing communication skills, increasing collaboration across teams and creating a strong base of inclusive leadership throughout our workforce. In 2023, CN continued to provide an expanded offering of online and curated playlists/curricula for more self-guided and self-paced learning to allow for development tools to be available throughout the year and to be self-directed by the employee, when it is most convenient. For the Operations group, CN has various entry-level supervisory programs, to onboard front-line management with a focus on providing those leaders with an understanding of railway operations, safety leadership, people leadership and a perspective on customer service. Furthermore, CN also supports its employees through a structured performance management process. At the beginning of each year, non-unionized employees set goals for the year that align to its business strategy and objectives. At mid and year-end, there is a formal discussion and review of progress against these goals as well as how they were achieved. CN continues to emphasize the

MANAGEMENT'S DISCUSSION AND ANALYSIS

importance of a performance-based culture. In 2023, CN also introduced development planning tools and launched the "Aspire to develop yourself" campaign where the Company encourages and equips our employees to own their career and build actionable development plans for growth. In addition, there are also development discussions with key talent to enhance skills, capabilities and experience across the talent pools.

Compensation

CN's approach to compensation continues to be driven by our goal to deliver sustainable value creation, while ensuring that target compensation supports the attraction and retention of talent. Compensation programs are designed to encourage appropriate behaviors and include appropriate risk mitigation mechanisms. In addition, compensation best practices adopted by CN include industry benchmarking and pay positioning as well as pay equity reviews.

CN offers a competitive compensation portfolio that consists of base salary, employee share investment plan, short-term and long-term incentives (applicable to certain employees only), benefits, retirement plans and other non-monetary elements.

Diversity, Equity and Inclusion (DE&I)

At CN, employees are the Company's single greatest asset and the importance of creating a work environment that welcomes the contribution and uniqueness of every employee is recognized. CN is committed to creating a workforce of top talent that reflects the diversity of the population and stakeholders it serves. The Diversity, Equity and Inclusion Plan ("Diversity Plan") focuses on developing a more inclusive workplace by increasing the representation of women, people of color, Indigenous peoples, persons with disabilities and veterans. The plan applies at all levels within the organization and includes strategies on sourcing (among others, early career sourcing through internships, co-op and new graduate programs), selection, hiring, training and development of diverse candidates, anchoring CN's commitment to Diversity, Equity and Inclusion (DE&I).

The Company has embedded diversity in its policy regarding composition of the Board and executive management. The Diversity Policy, which also applies to executive management, states that in fulfilling its oversight role, the HRCC regularly reviews CN's integrated approach to executive and high-potential talent management and succession planning, in order to ensure that CN has diverse candidate pools for potential successors for executive roles.

CN is undertaking various initiatives aimed at better promoting and reinforcing diversity, equity and inclusion which are strongly supported through active involvement by management and the Board. Some examples include:

- building on established DE&I fundamentals by conducting a DE&I diagnostic and creating a revised multi-year DE&I strategy and vision;
- running regular reviews of pay equity and defining a roadmap to address identified gaps;
- refocusing our sponsorships and donations budget to better align with our strategic DE&I vision;
- continually assessing hiring practices to leverage diversity focused recruitment agencies and requiring diverse candidate slates for all recruitment mandates;
- developing inclusive leaders through targeted training and education, including unconscious bias and inclusive leadership training, as leaders will be critical in creating and sustaining an inclusive environment;
- continuing to support and leverage the Employee Resource Groups (ERGs) that are backed by executive sponsors (currently eight ERGs); and
- having sufficient resources to support our DE&I vision.

In January 2024 CN established that moving forward it aspires to maintain a Board composition in which independent Board members are comprised of at least 40% of each gender (male and female) and at least two members come from the broader underrepresented groups, beyond gender. Currently, five out of 10, or 50% of independent Board members are women and two, or 20% of independent Board members are from underrepresented groups. CN has also elected to revise the gender diversity target for executive management (comprising all Vice-Presidents and more senior positions), whereby by the end of 2027, and thereafter, CN aspires to maintain an executive management team in which at least 35% of this group are women. As at December 31, 2023 27%, or eight of the 30 executive management roles, were held by women.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Financial highlights

				% Change	
				Favorable/(Unfavorable)	
<i>In millions, except percentage and per share data</i>	2023	2022	2021	2023 vs 2022	2022 vs 2021
Revenues	\$ 16,828	\$ 17,107	\$ 14,477	(2%)	18%
Operating income	\$ 6,597	\$ 6,840	\$ 5,616	(4%)	22%
Adjusted operating income ⁽¹⁾⁽²⁾	\$ 6,597	\$ 6,862	\$ 5,622	(4%)	22%
Net income	\$ 5,625	\$ 5,118	\$ 4,899	10%	4%
Adjusted net income ⁽¹⁾⁽²⁾	\$ 4,800	\$ 5,134	\$ 4,225	(7%)	22%
Basic earnings per share	\$ 8.55	\$ 7.46	\$ 6.91	15%	8%
Diluted earnings per share	\$ 8.53	\$ 7.44	\$ 6.90	15%	8%
Adjusted diluted earnings per share ⁽¹⁾⁽²⁾	\$ 7.28	\$ 7.46	\$ 5.95	(2%)	25%
Dividends declared per share	\$ 3.16	\$ 2.93	\$ 2.46	8%	19%
Operating ratio ⁽³⁾	60.8%	60.0%	61.2%	(0.8) pts	1.2 pts
Adjusted operating ratio ⁽¹⁾⁽²⁾	60.8%	59.9%	61.2%	(0.9) pts	1.3 pts
Net cash provided by operating activities	\$ 6,965	\$ 6,667	\$ 6,971	4%	(4%)
Net cash used in investing activities	\$ 3,468	\$ 2,510	\$ 2,873	(38%)	13%
Free cash flow ⁽¹⁾⁽⁴⁾	\$ 3,887	\$ 4,259	\$ 3,296	(9%)	29%

				% Change	
				Favorable/(Unfavorable)	
<i>In millions, except percentages</i>	As at December 31, 2023	As at December 31, 2022	As at December 31, 2021	2023 vs 2022	2022 vs 2021
Financial position					
Total assets	\$ 52,666	\$ 50,662	\$ 48,538	4%	4%
Total long-term liabilities ⁽⁵⁾	\$ 27,514	\$ 25,436	\$ 22,674	(8%)	(12%)

(1) These non-GAAP measures do not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies.

(2) See the section of this MD&A entitled *Non-GAAP measures – Adjusted performance measures* for an explanation of these non-GAAP measures.

(3) Operating ratio is defined as operating expenses as a percentage of revenues.

(4) See the section of this MD&A entitled *Liquidity and capital resources – Free cash flow* for an explanation of this non-GAAP measure.

(5) Total long-term liabilities is the difference between Total liabilities and Total current liabilities.

2023 Results of operations

Revenues for the year ended December 31, 2023 were \$16,828 million compared to \$17,107 million in 2022. The decrease of \$279 million, or 2%, was mainly due to lower shipments of intermodal, crude oil, U.S. grain and forest products as well as lower container storage fees and lower fuel surcharge revenues as a result of lower fuel prices; partly offset by freight rate increases, higher Canadian grain export shipments and higher shipments of potash and the positive translation impact of a weaker Canadian dollar.

Operating expenses for the year ended December 31, 2023 were \$10,231 million compared to \$10,267 million in 2022. Operating expenses remained flat mainly due to lower fuel prices; offset by the negative translation impact of a weaker Canadian dollar and higher labor and fringe benefits expense mainly driven by general wage increases and higher average headcount.

Operating income for the year ended December 31, 2023 decreased by \$243 million, or 4%, to \$6,597 million, when compared to the same period in 2022. The operating ratio was 60.8% in 2023, compared to 60.0% in 2022, a 0.8-point increase.

Net income for the year ended December 31, 2023 was \$5,625 million, an increase of \$507 million, or 10%, when compared to 2022, and diluted earnings per share increased by 15% to \$8.53. The increase was mainly due to a net deferred income tax recovery of \$713 million resulting from tax filings consistent with a ruling that the Company received in a non-U.S. foreign jurisdiction in connection with prior taxation years; partly offset by lower revenues.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Key operating metrics

	2023	2022	2021	% Change	
				Favorable/(Unfavorable)	
				2023 vs 2022	2022 vs 2021
Gross ton miles (GTMs) (millions) ⁽¹⁾	452,043	463,710	458,401	(3%)	1%
Train weight (tons) ⁽²⁾	9,186	9,324	9,658	(1%)	(3%)
Train length (feet) ⁽³⁾	7,891	8,160	8,559	(3%)	(5%)
Through network train speed (miles per hour) ⁽⁴⁾	19.8	18.9	19.2	5%	(2%)
Fuel efficiency (US gallons of locomotive fuel consumed per 1,000 GTMs) ⁽⁵⁾	0.874	0.867	0.884	(1%)	2%
Through dwell (entire railroad, hours) ⁽⁶⁾	7.0	7.6	7.9	8%	4%
Car velocity (car miles per day) ⁽⁷⁾	213	196	195	9%	1%

- (1) GTMs: The workload performed by system trains in hauling freight or equipment. GTMs are calculated by multiplying the trailing weight by the distance the train moved. A larger number is an indicator of more traffic (and thus more revenue) being moved.
- (2) Train weight: An efficiency measurement on how much tonnage each mainline train handles on average as it crosses the network. Calculated as the total of GTMs and divided by total train miles, this measure provides insight on how well each train was maximized in terms of its capacity to move traffic. This operating measure was formerly named Train productivity.
- (3) Train length: An efficiency measurement on average trailing length of each mainline train on the network. Calculated as the total of car foot miles (the sum of car length multiplied by miles travelled for each trailing car) divided by total train miles, this measure provides insight on how well each train was maximized in terms of its capacity to move traffic.
- (4) Through network train speed: A measure of the line-haul movement from origin to destination, including time at terminals. The average speed is calculated by dividing train miles by total hours operated, excluding yard and local trains, passenger trains, maintenance of way trains, and foreign trains. This measure represents the fluidity of trains on the network, with a higher value also indicating a more fluid network.
- (5) Fuel efficiency: This measure represents how efficient the Company is in the generation and utilization of locomotive horsepower in freight train operations, with a lower number indicating improved performance. Fuel efficiency is defined as US gallons of locomotive fuel consumed per 1,000 GTMs. Annual fuel efficiency metrics for 2021 have been revised as more complete information became available.
- (6) Through dwell: The average time a car resides within terminal boundaries expressed in hours. The measurement begins with a customer release, received interchange, or train arrival event and ends with a customer placement (actual or constructive), delivered or offered in interchange, or train departure event. This excludes stored, bad ordered, maintenance of way cars, or cars with dwell greater than 10 days. This measure represents the efficiency of handling cars within the terminal, with a lower value indicating higher performance.
- (7) Car velocity: The average miles per day traveled by loaded and empty cars (including all active cars whether private, foreign or CN owned) on company lines. This measure represents the fluidity of cars on the network, calculated by the sum of miles each car traveled divided by the sum of all of the cars' active time, with a higher value indicating a smoother and more fluid operation.

The Company's continued focus on scheduled railroading in 2023, helped by more favorable winter operating conditions partly offset by operational disruptions related to Canadian wildfires and the Canadian West Coast dock workers strike, resulted in improvements in car velocity, train speed and through dwell when compared to 2022. GTMs were negatively impacted in 2023 when compared to 2022 primarily due to weaker demand for freight services. Fuel efficiency decreased by 1% mainly due to running shorter trains.

For the year ended December 31, 2022, when compared to 2021, the Company's focus on scheduled railroading resulted in improvements in car velocity, through dwell and fuel efficiency, as well as a decrease in train length and train weight, despite negative impacts from the harsh winter in the first quarter of 2022. In addition, the Company's fuel initiatives allowed it to achieve a new record for fuel efficiency.

Non-GAAP measures

This MD&A makes reference to non-GAAP measures including adjusted performance measures, constant currency, return on invested capital (ROIC) and adjusted ROIC, free cash flow, and adjusted debt-to-adjusted EBITDA multiple that do not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies. From management's perspective, these non-GAAP measures are useful measures of performance and provide investors with supplementary information to assess the Company's results of operations and liquidity. These non-GAAP measures should not be considered in isolation or as a substitute for financial measures prepared in accordance with GAAP.

For further details of these non-GAAP measures, including a reconciliation to the most directly comparable GAAP financial measures, refer to the sections of this MD&A entitled *Non-GAAP measures: Adjusted performance measures, ROIC and adjusted ROIC* and *Constant currency*, as well as the section entitled *Liquidity and capital resources: Free cash flow* and *Adjusted debt-to-adjusted EBITDA multiple*.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Adjusted performance measures

Adjusted net income, adjusted diluted earnings per share, adjusted operating income, adjusted operating expenses and adjusted operating ratio are non-GAAP measures that are used to set performance goals and to measure CN's performance. Management believes that these adjusted performance measures provide additional insight to management and investors into the Company's operations and underlying business trends as well as facilitate period-to-period comparisons, as they exclude certain significant items that are not reflective of CN's underlying business operations and could distort the analysis of trends in business performance. These items may include:

- i. operating expense adjustments: workforce reduction program, depreciation expense on the deployment of replacement system, advisory fees related to shareholder matters, losses and recoveries from assets held for sale, business acquisition-related costs;
- ii. non-operating expense adjustments: business acquisition-related financing fees, merger termination income, gains and losses on disposal of property; and
- iii. the effect of changes in tax laws including rate enactments, and changes in tax positions affecting prior years.

These non-GAAP measures do not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies.

For the year ended December 31, 2023, the Company's adjusted net income was \$4,800 million, or \$7.28 per diluted share, which excludes:

- a gain on disposal of property within the Bala Subdivision located in Markham and Richmond Hill, Ontario, Canada of \$129 million, or \$112 million after-tax (\$0.17 per diluted share) recorded in the fourth quarter in Other income within the Consolidated Statements of Income; and
- a net deferred income tax recovery of \$713 million (\$1.08 per diluted share) recorded in the fourth quarter resulting from tax filings consistent with a ruling that the Company received in a non-U.S. foreign jurisdiction in connection with prior taxation years.

For the year ended December 31, 2022, the Company's adjusted net income was \$5,134 million, or \$7.46 per diluted share, which excludes advisory fees related to shareholder matters of \$22 million, or \$16 million after-tax (\$0.02 per diluted share) of which \$12 million, or \$9 million after-tax (\$0.01 per diluted share) was recorded in the second quarter and \$10 million, or \$7 million after-tax (\$0.01 per diluted share) was recorded in the first quarter in Other expense within the Consolidated Statements of Income.

For the year ended December 31, 2021, the Company reported adjusted net income of \$4,225 million, or \$5.95 per diluted share, which excludes:

- employee termination benefits and severance costs related to a workforce reduction program of \$39 million, or \$29 million after-tax (\$0.04 per diluted share) recorded in the third quarter in Labor and fringe benefits within the Consolidated Statements of Income;
- advisory fees related to shareholder matters of \$20 million, or \$15 million after-tax (\$0.02 per diluted share) of which \$13 million, or \$10 million after-tax (\$0.01 per diluted share) was recorded in the fourth quarter and \$7 million, or \$5 million after-tax (\$0.01 per diluted share) was recorded in the third quarter in Other expense within the Consolidated Statements of Income;
- the recovery of \$137 million, or \$102 million after-tax (\$0.14 per diluted share) recorded in the first quarter related to the loss on assets held for sale in the second quarter of 2020, to reflect an agreement for the sale for on-going rail operations, certain non-core rail lines in Wisconsin, Michigan and Ontario to a short line operator;
- transaction-related costs, consisting of an advance to Kansas City Southern (KCS) and a related refund, net of transaction costs, of \$84 million, or \$70 million after-tax (\$0.10 per diluted share), recorded in the third quarter resulting from the terminated CN Merger Agreement with KCS;
- amortization of bridge financing and other fees of \$97 million, or \$84 million after-tax (\$0.11 per diluted share), of which \$65 million, or \$60 million after-tax (\$0.08 per diluted share) was recorded in the third quarter and \$32 million, or \$24 million after-tax (\$0.03 per diluted share) was recorded in the second quarter, resulting from the KCS transaction, recorded in Interest expense within the Consolidated Statements of Income; and
- merger termination fee paid by KCS to CN of \$886 million, or \$770 million after-tax (\$1.08 per diluted share), recorded in the third quarter resulting from KCS' notice of termination of the CN Merger Agreement with KCS.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Adjusted net income is defined as Net income in accordance with GAAP adjusted for certain significant items. Adjusted diluted earnings per share is defined as adjusted net income divided by the weighted-average diluted shares outstanding. The following table provides a reconciliation of Net income and Earnings per share in accordance with GAAP, as reported for the years ended December 31, 2023, 2022 and 2021, to the non-GAAP adjusted performance measures presented herein:

<i>In millions, except per share data</i>	<i>Year ended December 31,</i>		2023	2022	2021
Net income	\$	5,625	\$	5,118	\$ 4,899
Adjustments:					
Operating expense adjustments:					
Workforce reduction program		—		—	39
Advisory fees related to shareholder matters		—		22	20
Recovery on assets held for sale		—		—	(137)
Transaction-related costs		—		—	84
Non-operating expense adjustments:					
Amortization of bridge financing and other fees		—		—	97
Merger termination fee		—		—	(886)
Gain on disposal of property		(129)		—	—
Tax adjustments:					
Tax effect of adjustments ⁽¹⁾		17		(6)	109
Tax-deductible goodwill and related impacts ⁽²⁾		(713)		—	—
Total adjustments		(825)		16	(674)
Adjusted net income	\$	4,800	\$	5,134	\$ 4,225
Diluted earnings per share	\$	8.53	\$	7.44	\$ 6.90
Impact of adjustments, per share		(1.25)		0.02	(0.95)
Adjusted diluted earnings per share	\$	7.28	\$	7.46	\$ 5.95

(1) The tax impact of adjustments is based on the nature of the item for tax purposes and related tax rates in the applicable jurisdiction.

(2) Relates to the impacts resulting from tax filings consistent with a ruling that the Company received in a non-U.S. foreign jurisdiction in connection with prior taxation years.

Adjusted operating income is defined as Operating income in accordance with GAAP adjusted for certain significant operating expense items. Adjusted operating expenses is defined as Operating expenses in accordance with GAAP adjusted for certain significant operating expense items. Adjusted operating ratio is defined as adjusted operating expenses as a percentage of revenues. The following table provides a reconciliation of Operating income, Operating expenses and operating ratio, as reported for the years ended December 31, 2023, 2022 and 2021, to the non-GAAP adjusted performance measures presented herein:

<i>In millions, except percentages</i>	<i>Year ended December 31,</i>		2023	2022	2021
Operating income	\$	6,597	\$	6,840	\$ 5,616
Adjustments:					
Workforce reduction program		—		—	39
Advisory fees related to shareholder matters		—		22	20
Recovery on assets held for sale		—		—	(137)
Transaction-related costs		—		—	84
Total adjustments		—		22	6
Adjusted operating income	\$	6,597	\$	6,862	\$ 5,622
Operating expenses		10,231		10,267	8,861
Total adjustments		—		(22)	(6)
Adjusted operating expenses	\$	10,231	\$	10,245	\$ 8,855
Operating ratio		60.8 %		60.0 %	61.2 %
Impact of adjustments		—		(0.1)%	—
Adjusted operating ratio		60.8 %		59.9 %	61.2 %

MANAGEMENT'S DISCUSSION AND ANALYSIS

ROIC and adjusted ROIC

ROIC and adjusted ROIC are useful measures for management and investors to evaluate the efficiency of the Company's use of capital funds and allow investors to assess the operating and investment decisions made by management. The Company calculates ROIC as return divided by average invested capital, both of which are non-GAAP measures. Return is defined as Net income plus interest expense after-tax, calculated using the Company's effective tax rate. Average invested capital is defined as the sum of Total shareholders' equity, Long-term debt and Current portion of long-term debt less Cash and cash equivalents, and Restricted cash and cash equivalents, averaged between the beginning and ending balance over the last twelve-month period. The Company calculates adjusted ROIC as adjusted return divided by average invested capital, both of which are non-GAAP measures. Adjusted return is defined as adjusted net income plus interest expense after-tax, calculated using the Company's adjusted effective tax rate. Return, average invested capital, ROIC, adjusted return and adjusted ROIC do not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies.

The following table provides a reconciliation of Net income and adjusted net income to return and adjusted return, respectively, as well as the calculation of average invested capital, which have been used to calculate ROIC and adjusted ROIC:

<i>In millions, except percentage</i>	<i>As at and for the year ended December 31,</i>	2023	2022	2021
Net income	\$	5,625	\$ 5,118	\$ 4,899
Interest expense		722	548	610
Tax on interest expense ⁽¹⁾		(177)	(133)	(139)
Return	\$	6,170	\$ 5,533	\$ 5,370
Average total shareholders' equity	\$	20,751	\$ 22,064	\$ 21,198
Average long-term debt		15,253	13,175	11,987
Average current portion of long-term debt		1,699	783	709
Less: Average cash, cash equivalents, restricted cash and restricted cash equivalents		(879)	(1,088)	(1,221)
Average invested capital	\$	36,824	\$ 34,934	\$ 32,673
ROIC		16.8%	15.8%	16.4%
Adjusted net income ⁽²⁾	\$	4,800	\$ 5,134	\$ 4,225
Interest expense		722	548	610
Less: Amortization of bridge financing and other fees ⁽³⁾		—	—	(97)
Adjusted tax on interest expense ⁽⁴⁾		(177)	(133)	(123)
Adjusted return	\$	5,345	\$ 5,549	\$ 4,615
Average invested capital	\$	36,824	\$ 34,934	\$ 32,673
Adjusted ROIC		14.5%	15.9%	14.1%

(1) The effective tax rate, defined as Income tax expense as a percentage of Income before income taxes, used to calculate the tax on Interest expense for 2023 was 24.5% (2022 - 24.3%; 2021 - 22.8%). Due to the significantly lower effective tax rate reported by the Company in 2023, tax on interest expense for 2023 was calculated using an adjusted effective tax rate.

(2) This non-GAAP measure does not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies. See the section of this MD&A entitled *Non-GAAP measures – Adjusted performance measures* for an explanation of this non-GAAP measure.

(3) Relates to amortization of bridge financing and other fees resulting from the KCS transaction, recorded in Interest expense within the Consolidated Statements of Income.

(4) The adjusted effective tax rate is a non-GAAP measure, defined as Income tax expense, net of tax adjustments as presented in Adjusted performance measures as a percentage of Income before taxes, net of pre-tax adjustments as presented in Adjusted performance measures. This measure does not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to a similar measure presented by other companies. The adjusted effective tax rate used to calculate the adjusted tax on interest expense for 2023 was 24.5% (2022 - 24.3%; 2021 - 24.0%).

MANAGEMENT'S DISCUSSION AND ANALYSIS

Constant currency

Financial results at constant currency allow results to be viewed without the impact of fluctuations in foreign currency exchange rates, thereby facilitating period-to-period comparisons in the analysis of trends in business performance. Measures at constant currency are considered non-GAAP measures and do not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies. Financial results at constant currency are obtained by translating the current period results denominated in US dollars at the weighted average foreign exchange rates used to translate transactions denominated in US dollars of the comparable period of the prior year.

The average foreign exchange rates were \$1.350 and \$1.301 per US\$1.00, for the years ended December 31, 2023 and 2022, respectively. On a constant currency basis, the Company's Net income for the year ended December 31, 2023 would have been lower by \$96 million (\$0.15 per diluted share).

The following table provides a reconciliation of the impact of constant currency and related percentage change at constant currency on the financial results, as reported for the year ended December 31, 2023:

<i>In millions, except per share data</i>	<i>Year ended December 31,</i>	2023	Constant currency impact	2022	% Change at constant currency Fav (Unfav)
Revenues					
Petroleum and chemicals	\$	3,195	\$ (71)	\$ 3,229	(3%)
Metals and minerals		2,048	(59)	1,911	4%
Forest products		1,943	(55)	2,006	(6%)
Coal		1,017	(14)	937	7%
Grain and fertilizers		3,265	(57)	2,783	15%
Intermodal		3,823	(45)	4,906	(23%)
Automotive		945	(25)	797	15%
Total freight revenues		16,236	(326)	16,569	(4%)
Other revenues		592	(12)	538	8%
Total revenues		16,828	(338)	17,107	(4%)
Operating expenses					
Labor and fringe benefits		3,150	(41)	2,935	(6%)
Purchased services and material		2,254	(29)	2,191	(2%)
Fuel		2,097	(69)	2,518	19%
Depreciation and amortization		1,817	(25)	1,729	(4%)
Equipment rents		359	(10)	338	(3%)
Other		554	(13)	556	3%
Total operating expenses		10,231	(187)	10,267	2%
Operating income		6,597	(151)	6,840	(6%)
Interest expense		(722)	23	(548)	(28%)
Other components of net periodic benefit income		479	—	498	(4%)
Other income (loss)		134	—	(27)	596%
Income before income taxes		6,488	(128)	6,763	(6%)
Income tax expense		(863)	32	(1,645)	49%
Net income	\$	5,625	\$ (96)	\$ 5,118	8%
Diluted earnings per share	\$	8.53	\$ (0.15)	\$ 7.44	13%

MANAGEMENT'S DISCUSSION AND ANALYSIS

Revenues

<i>In millions, unless otherwise indicated</i>	<i>Year ended December 31,</i>	2023	2022	% Change	% Change at constant currency ⁽¹⁾
Freight revenues	\$	16,236	\$ 16,569	(2%)	(4%)
Other revenues		592	538	10%	8%
Total revenues	\$	16,828	\$ 17,107	(2%)	(4%)
Freight revenues					
Petroleum and chemicals	\$	3,195	\$ 3,229	(1%)	(3%)
Metals and minerals		2,048	1,911	7%	4%
Forest products		1,943	2,006	(3%)	(6%)
Coal		1,017	937	9%	7%
Grain and fertilizers		3,265	2,783	17%	15%
Intermodal		3,823	4,906	(22%)	(23%)
Automotive		945	797	19%	15%
Total freight revenues	\$	16,236	\$ 16,569	(2%)	(4%)
Revenue ton miles (RTMs) (millions) ⁽²⁾					
		232,614	235,788	(1%)	(1%)
Freight revenue/RTM (cents) ⁽³⁾					
		6.98	7.03	(1%)	(3%)
Carloads (thousands)					
		5,436	5,697	(5%)	(5%)
Freight revenue/carload (\$)					
		2,987	2,908	3%	1%

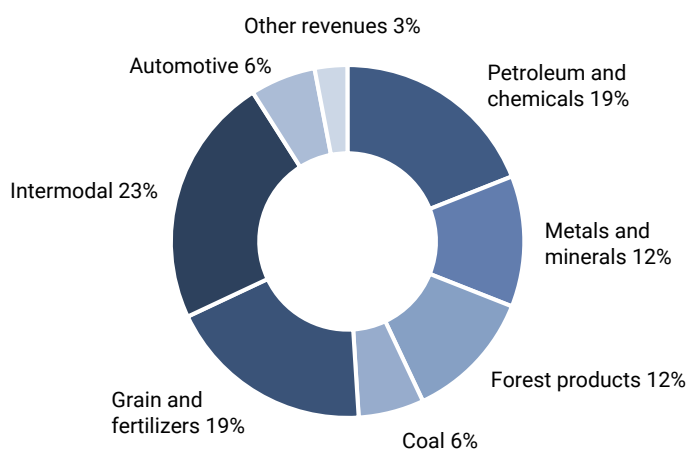
(1) This non-GAAP measure does not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies. See the section of this MD&A entitled *Non-GAAP measures – Constant currency* for an explanation of this non-GAAP measure.

(2) RTMs is a measure of volumes and is calculated by multiplying the weight in tons of the shipment lading being transported by the number of miles that the shipment is transported on company lines. CN uses RTMs as the primary measure of volumes as compared to Carloads, since RTMs also takes into account the length of haul and weight in the movement.

(3) Freight revenue per RTM is an indicator of yield and represents revenue earned for transporting one ton of freight over a distance of one mile.

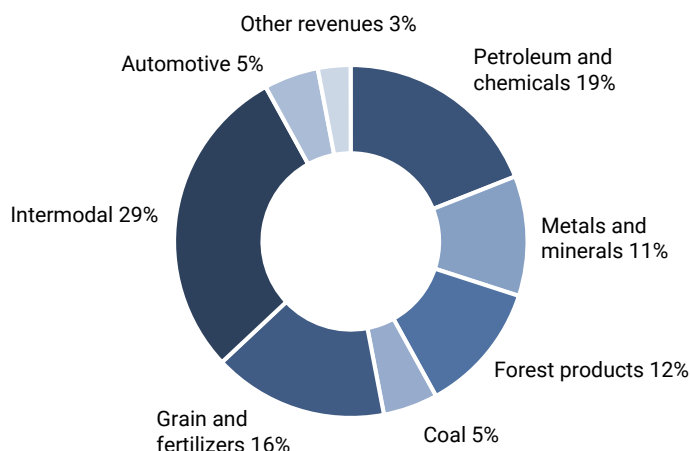
Business Unit Revenue Mix

% of 2023 Revenues



Business Unit Revenue Mix

% of 2022 Revenues



Revenues for the year ended December 31, 2023 totaled \$16,828 million compared to \$17,107 million in 2022. The decrease of \$279 million, or 2%, was mainly due to:

- lower RTMs of 1% mainly due to lower shipments of intermodal, crude oil, U.S. grain and forest products; partly offset by higher Canadian grain export shipments and higher shipments of potash.
- lower Freight revenue per RTM of 1% due to lower container storage fees and lower fuel surcharge revenues as a result of lower fuel prices; partly offset by freight rate increases, a decrease in the average length of haul and the positive translation impact of a weaker Canadian dollar.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Fuel surcharge revenues decreased by \$368 million in 2023 when compared to 2022, mainly due to lower fuel prices and lower volumes; partly offset by the positive translation impact of a weaker Canadian dollar.

Petroleum and chemicals

	Year ended December 31,	2023	2022	% Change	% Change at constant currency
Revenues (millions)	\$	3,195	\$ 3,229	(1%)	(3%)
RTMs (millions)		43,846	46,273	(5%)	(5%)
Revenue/RTM (cents)		7.29	6.98	4%	2%
Carloads (thousands)		634	636	—%	—%
Revenue/carload (\$)		5,039	5,077	(1%)	(3%)

The petroleum and chemicals commodity group comprises a wide range of commodities, including chemicals and plastics, refined petroleum products, natural gas liquids, crude oil and sulfur. The primary markets for these commodities are within North America, and as such, the performance of this commodity group is closely correlated with the North American economy as well as oil, gas production, petroleum refining activity, pipeline capacities and related petrochemical commodity prices. Most of the Company's petroleum and chemicals shipments originate in the Alberta Industrial Heartland, a key oil and gas development area and a major center for natural gas feedstock and world-scale petrochemicals and plastics. In addition to servicing the Louisiana petrochemical corridor between New Orleans and Baton Rouge as well as Sarnia's "Chemical Valley" in Southwestern Ontario, the Company also supplements pipeline capacity by moving petroleum products from facilities in Saskatchewan, British Columbia, Quebec, and Illinois.

For the year ended December 31, 2023, revenues for this commodity group decreased by \$34 million, or 1%, when compared to 2022, mainly due to:

- lower RTMs of 5%, mainly due to lower shipments of crude oil due to unfavorable crude oil price spreads;
- partly offset by higher Revenue per RTM of 4%, mainly due to a decrease in the average length of haul, freight rate increases and the positive translation impact of a weaker Canadian dollar; partly offset by lower fuel surcharge revenues.

RTMs decreased more than Carloads in 2023 when compared to 2022, mainly due to lower shipments of crude oil, which has a longer length of haul.

Percentage of commodity group revenues	2023	2022
Refined petroleum products	47 %	45 %
Chemicals and plastics	39 %	37 %
Crude and condensate	9 %	13 %
Sulfur	5 %	5 %

MANAGEMENT'S DISCUSSION AND ANALYSIS

Metals and minerals

	Year ended December 31,	2023	2022	% Change	% Change at constant currency
Revenues (millions)	\$	2,048	\$ 1,911	7%	4%
RTMs (millions)		28,444	27,606	3%	3%
Revenue/RTM (cents)		7.20	6.92	4%	1%
Carloads (thousands)		1,002	956	5%	5%
Revenue/carload (\$)		2,044	1,999	2%	(1%)

The metals and minerals commodity group consists primarily of materials related to oil and gas development such as frac sand, drilling pipe and large diameter pipe, steel, iron ore, non-ferrous base metals and ores, raw materials including scrap metal, industrial materials including aggregates, construction materials such as roofing and railway equipment, machinery and dimensional (large) loads. The Company provides unique rail access to base metals, iron ore and frac sand mining as well as aluminum and steel producing regions, which are among the most important in North America. This strong origin franchise, coupled with the Company's access to port facilities and the end markets for these commodities, has made CN a leader in the transportation of metals and minerals products. The key drivers for this market segment are oil and gas development, automotive production, and non-residential construction.

For the year ended December 31, 2023, revenues for this commodity group increased by \$137 million, or 7%, when compared to 2022, mainly due to:

- higher Revenue per RTM of 4% mainly due to freight rate increases and the positive translation impact of a weaker Canadian dollar; partly offset by lower fuel surcharge revenues; and
- higher RTMs of 3% mainly due to higher shipments of frac sand and metals; partly offset by lower exports of iron ore.

Percentage of commodity group revenues	2023	2022
Metals	29 %	29 %
Minerals	26 %	27 %
Energy materials	25 %	24 %
Iron ore	20 %	20 %

Forest products

	Year ended December 31,	2023	2022	% Change	% Change at constant currency
Revenues (millions)	\$	1,943	\$ 2,006	(3%)	(6%)
RTMs (millions)		23,141	25,020	(8%)	(8%)
Revenue/RTM (cents)		8.40	8.02	5%	2%
Carloads (thousands)		309	330	(6%)	(6%)
Revenue/carload (\$)		6,288	6,079	3%	1%

The forest products commodity group includes various types of lumber, panels, paper, board and wrapping paper, wood pulp and other fibers such as logs, recycled paper, wood chips, and wood pellets. The Company has extensive rail access to the western and eastern Canadian fiber-producing regions, which are among the largest fiber source areas in North America. In the U.S., the Company is strategically located to serve both the Midwest and southern U.S. corridors with interline connections to other Class I railroads. The key drivers for the various commodities are: for lumber and panels, housing starts and renovation activities primarily in the U.S.; for fibers (mainly wood pulp), the consumption of paper, pulpboard and tissue in North American and offshore markets; for newsprint, advertising lineage, non-print media and overall economic conditions, primarily in the U.S.; and for board and wrap packaging, growth in eCommerce consumer driven demand and the replacement of plastics by fiber-based packaging.

MANAGEMENT'S DISCUSSION AND ANALYSIS

For the year ended December 31, 2023, revenues for this commodity group decreased by \$63 million, or 3%, when compared to 2022, mainly due to:

- lower RTMs of 8% mainly due to weaker demand for forest products, primarily lumber and panels, and the negative impact of Canadian wildfires on customer supply chains;
- partly offset by higher Revenue per RTMs of 5% mainly due to freight rate increases and the positive translation impact of a weaker Canadian dollar; partly offset by lower fuel surcharge revenues.

<i>Percentage of commodity group revenues</i>	2023	2022
Lumber	37 %	39 %
Pulp	29 %	28 %
Paper	17 %	17 %
Panels	17 %	16 %

Coal

	<i>Year ended December 31,</i>	2023	2022	% Change	% Change at constant currency
Revenues (<i>millions</i>)	\$	1,017	\$ 937	9%	7%
RTMs (<i>millions</i>)		22,682	22,679	—%	—%
Revenue/RTM (<i>cents</i>)		4.48	4.13	8%	7%
Carloads (<i>thousands</i>)		511	503	2%	2%
Revenue/carload (\$)		1,990	1,863	7%	5%

The coal commodity group consists of thermal grades of bituminous coal, metallurgical coal and petroleum coke. Canadian thermal and metallurgical coal are largely exported via terminals on the west coast of Canada to offshore markets. In the U.S., thermal coal is transported from mines served in southern Illinois, or from western U.S. mines via interchange with other railroads, to major utilities in the Midwest and Southeast U.S., as well as offshore markets via terminals on the U.S. Gulf Coast and inland river system. Petroleum coke, a by-product of the oil refining process, is exported to offshore markets via terminals on the west coast of Canada, the U.S. Gulf Coast and inland river system, as well as shipped to industrial users in domestic markets. The key drivers for this market segment are weather conditions, environmental regulations, global energy, coal and steel supply and demand conditions, and for U.S. domestic utility coal, the price of natural gas.

For the year ended December 31, 2023, revenues for this commodity group increased by \$80 million, or 9%, when compared to 2022, mainly due to:

- higher Revenue per RTM of 8% mainly due to freight rate increases and the positive translation impact of a weaker Canadian dollar; partly offset by lower fuel surcharge revenues.
- RTMs remained flat mainly due to higher shipments of Canadian coal and U.S. petroleum coke; offset by lower shipments of U.S. coal exports.

RTMs remained flat while Carloads increased in 2023 when compared to 2022, mainly due to higher Canadian coal export shipments, which have a longer length of haul; partly offset by lower U.S. coal export shipments which have a longer length of haul.

<i>Percentage of commodity group revenues</i>	2023	2022
Canadian coal - export	53 %	54 %
Petroleum coke	21 %	20 %
U.S. coal - export	13 %	14 %
U.S. coal - domestic	13 %	12 %

MANAGEMENT'S DISCUSSION AND ANALYSIS

Grain and fertilizers

	Year ended December 31,	2023	2022	% Change	% Change at constant currency
Revenues (millions)	\$	3,265	\$ 2,783	17%	15%
RTMs (millions)		63,479	55,359	15%	15%
Revenue/RTM (cents)		5.14	5.03	2%	—%
Carloads (thousands)		670	614	9%	9%
Revenue/carload (\$)		4,873	4,533	8%	6%

The grain and fertilizers commodity group depends primarily on crops grown and fertilizers processed in Western Canada and the U.S. Midwest. The grain segment consists of wheat, oats, barley, flaxseed, rye, peas, lentils, corn, corn meal, ethanol, dried distillers grain, canola seed and canola products, soybeans, soybean products, sweeteners and animal fat. Production of grain varies considerably from year to year, affected primarily by weather conditions, seeded and harvested acreage, the mix of grains produced and crop yields. Grain exports are sensitive to the size and quality of the crop produced, international market conditions and foreign government policy. The majority of grain produced in Western Canada and moved by CN is exported via the ports of Vancouver, Prince Rupert and Thunder Bay. These rail movements are subject to government regulation that establishes a maximum revenue entitlement that railways can earn. Although railway companies are free to set freight rates for western grain shipments, total revenue is limited based on a formula that takes into account tonnage, length of haul, and a specified price index. Shipments of grain that are exported to the U.S. are not regulated. Grain grown in the U.S. Midwest is exported as well as transported to domestic processing facilities and feed markets. The Company also serves major producers of potash in Canada, as well as producers of ammonium nitrate, anhydrous ammonia, urea and other fertilizers across Canada and the U.S. The key drivers for fertilizers are input prices, demand, government policies, and international competition.

For the year ended December 31, 2023, revenues for this commodity group increased by \$482 million, or 17%, when compared to 2022, mainly due to:

- higher RTMs of 15% mainly due to higher Canadian grain export shipments primarily as a result of a larger 2022/2023 crop versus the prior year and higher shipments of potash due to a major outage at a competitor's export terminal and stronger domestic demand, partly offset by reduced U.S. grain shipments as a result of increased global grain supply; and
- higher Revenue per RTM of 2% mainly due to freight rate increases and the positive translation impact of a weaker Canadian dollar, partly offset by an increase in the average length of haul and lower fuel surcharge revenues.

RTMs increased more than Carloads in 2023 when compared to 2022, mainly due to higher Canadian grain export shipments, which has a longer length of haul.

Percentage of commodity group revenues	2023	2022
Canadian grain - regulated	37 %	32 %
U.S. grain - domestic	19 %	22 %
Fertilizers - potash	16 %	13 %
Canadian grain - commercial	13 %	13 %
Fertilizers - other	9 %	9 %
U.S. grain - exports	6 %	11 %

Intermodal

	Year ended December 31,	2023	2022	% Change	% Change at constant currency
Revenues (millions)	\$	3,823	\$ 4,906	(22%)	(23%)
RTMs (millions)		47,886	56,029	(15%)	(15%)
Revenue/RTM (cents)		7.98	8.76	(9%)	(10%)
Carloads (thousands)		2,078	2,450	(15%)	(15%)
Revenue/carload (\$)		1,840	2,002	(8%)	(9%)

MANAGEMENT'S DISCUSSION AND ANALYSIS

The intermodal commodity group includes rail and trucking services and is comprised of two markets: domestic intermodal and international intermodal. Domestic intermodal transports consumer products and manufactured goods, serving retail, wholesale and logistics provider channels, within domestic Canada, domestic U.S., Mexico and transborder, while international intermodal handles import and export container traffic, serving the major ports of Vancouver, Prince Rupert, Montreal, Halifax, Saint John, New Orleans and Mobile. CN's network of inland intermodal terminals, located near ports and large urban centers, and a number of interline partnerships with other Class I railroads, connects customers to major markets in North America and overseas. Domestic intermodal is driven by consumer markets, with growth generally tied to the economy. International intermodal is driven by North American economic and trade conditions as well as global trade patterns. Revenues for CN owned trucking businesses, including TransX, are included in this commodity group within the domestic market.

For the year ended December 31, 2023, revenues for this commodity group decreased by \$1,083 million, or 22%, when compared to 2022, mainly due to:

- lower RTMs of 15% mainly due to decreased shipments in the international and domestic segments driven by weaker demand for consumer goods and the lingering negative impact of the Canadian West Coast dock workers strike; and
- lower Revenue per RTM of 9% mainly due to lower container storage fees compared to significantly higher container storage fees in 2022 resulting from customer supply chain challenges, reduced trucking services and lower fuel surcharge revenues; partly offset by a decrease in the average length of haul, freight rate increases and the positive translation impact of a weaker Canadian dollar.

<i>Percentage of commodity group revenues</i>	2023	2022
International	60 %	63 %
Domestic	40 %	37 %

Automotive

	<i>Year ended December 31,</i>	2023	2022	% Change	% Change at constant currency
Revenues (<i>millions</i>)	\$	945	\$ 797	19%	15%
RTMs (<i>millions</i>)		3,136	2,822	11%	11%
Revenue/RTM (<i>cents</i>)		30.13	28.24	7%	4%
Carloads (<i>thousands</i>)		232	208	12%	12%
Revenue/carload (\$)		4,073	3,832	6%	3%

The automotive commodity group moves both domestic finished vehicles and parts throughout North America, providing service to certain vehicle assembly plants in Ontario, Michigan and Mississippi. The Company also serves vehicle distribution facilities in Canada and the U.S., as well as parts production facilities in Michigan and Ontario. The Company serves shippers of finished vehicle imports via the ports of Halifax and Vancouver, and through interchange with other railroads for vehicles produced outside CN's directly served network, including in Mexico. CN's broad network of auto compounds is used to facilitate distribution of vehicles throughout Canada and the U.S. Midwest. The primary drivers for this market are automotive sales in North America, which are driven by population growth, age of vehicles and household spending.

For the year ended December 31, 2023, revenues for this commodity group increased by \$148 million, or 19%, when compared to 2022, mainly due to:

- higher RTMs of 11% mainly due to higher shipments of finished vehicles as a result of automotive dealership restocking; and
- higher Revenue per RTM of 7% mainly due to freight rate increases and the positive translation impact of a weaker Canadian dollar; partly offset by lower fuel surcharge revenues and an increase in the average length of haul.

<i>Percentage of commodity group revenues</i>	2023	2022
Finished vehicles	93 %	93 %
Auto parts	7 %	7 %

MANAGEMENT'S DISCUSSION AND ANALYSIS

Other revenues

	Year ended December 31,	2023	2022	% Change	% Change at constant currency
Revenues (millions)	\$	592	\$ 538	10%	8%

Other revenues are derived from non-rail logistics services that support the Company's rail business including vessels and docks, transloading and distribution, automotive logistics, and freight forwarding and transportation management.

For the year ended December 31, 2023, Other revenues increased by \$54 million, or 10%, when compared to 2022, mainly due to higher vessel and dock revenues from the iron ore supply chain, increased automotive logistics revenues and the positive impact of a weaker Canadian dollar; partly offset by lower freight forwarding revenues.

Percentage of other revenues	2023	2022
Vessels and docks	55 %	54 %
Other non-rail services	37 %	38 %
Other revenues	8 %	8 %

Operating expenses

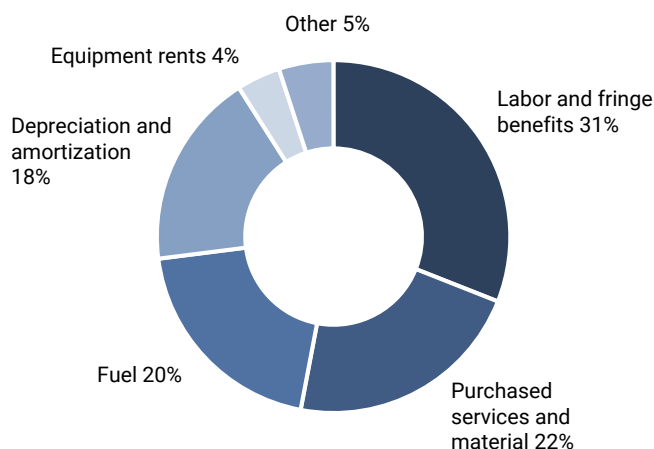
Operating expenses for the year ended December 31, 2023, amounted to \$10,231 million compared to \$10,267 million in 2022. Operating expenses remained flat mainly due to lower fuel prices; offset by the negative translation impact of a weaker Canadian dollar and higher labor and fringe benefits expense mainly driven by general wage increases and higher average headcount.

In millions	Year ended December 31,	2023	2022	% Change	% Change at constant currency ⁽¹⁾
Labor and fringe benefits	\$	3,150	\$ 2,935	(7%)	(6%)
Purchased services and material		2,254	2,191	(3%)	(2%)
Fuel		2,097	2,518	17%	19%
Depreciation and amortization		1,817	1,729	(5%)	(4%)
Equipment rents		359	338	(6%)	(3%)
Other		554	556	—%	3%
Total operating expenses	\$	10,231	\$ 10,267	—%	2%

(1) This non-GAAP measure does not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies. See the section of this MD&A entitled *Non-GAAP measures – Constant currency* for an explanation of this non-GAAP measure.

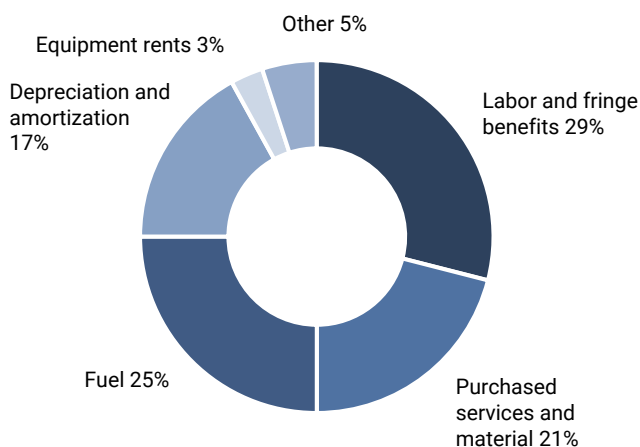
Operating Expenses Mix

% of 2023 Total operating expenses



Operating Expenses Mix

% of 2022 Total operating expenses



MANAGEMENT'S DISCUSSION AND ANALYSIS

Labor and fringe benefits

Labor and fringe benefits expense includes wages, payroll taxes and employee benefits such as incentive compensation, including stock-based compensation, health and welfare, current service cost for pensions and postretirement benefits. Certain incentive compensation plans are based mainly on financial performance targets and the related expense is recorded in relation to the attainment of such targets.

Labor and fringe benefits expense increased by \$215 million, or 7%, in 2023 when compared to 2022. The increase was mainly due to higher general wage increases, higher average headcount and the negative translation impact of a weaker Canadian dollar; partly offset by lower pension expense, lower incentive compensation and the incremental wage accrual in 2022 for the agreements with the U.S. unions.

Purchased services and material

Purchased services and material expense includes the cost of services purchased from outside contractors; materials used in the maintenance of the Company's track, facilities and equipment; transportation and lodging for train crew employees; utility costs; and the net costs of operating facilities jointly used by the Company and other railroads.

Purchased services and material expense increased by \$63 million, or 3%, in 2023 when compared to 2022. The increase was mainly due to higher contracted services, higher material costs and the negative translation impact of a weaker Canadian dollar; partly offset by lower freight forwarding expense.

Fuel

Fuel expense includes fuel consumed by assets, including locomotives, vessels, vehicles and other equipment as well as federal, provincial and state fuel taxes.

Fuel expense decreased by \$421 million, or 17%, in 2023 when compared to 2022. The decrease was mainly due to lower fuel prices, lower volumes and the negative translation impact of a weaker Canadian dollar.

Depreciation and amortization

Depreciation and amortization expense includes the costs associated with the use of properties and intangible assets over their estimated service lives. Depreciation expense is affected by capital additions, railroad property retirements from disposal, sale and/or abandonment and other adjustments including asset impairments.

Depreciation and amortization expense increased by \$88 million, or 5%, in 2023 when compared to 2022. The increase was mainly due to a higher depreciable asset base and the negative translation impact of a weaker Canadian dollar.

Equipment rents

Equipment rents expense includes rental expense for the use of freight cars owned by other railroads (car hire) or private companies and for the lease of freight cars, locomotives and intermodal equipment, net of rental income from other railroads for the use of the Company's freight cars (car hire) and locomotives.

Equipment rents expense increased by \$21 million, or 6%, in 2023 when compared to 2022. The increase was mainly due to higher rail car lease costs and the negative translation impact of a weaker Canadian dollar.

Other

Other expense includes operating taxes; software, support and cloud computing costs; insurance; environmental; freight and property damage; personal injury claims; travel expenses; advisory fees related to shareholder matters; bad debt; as well as other general expenses.

Other expense remained flat in 2023 when compared to 2022 mainly due to lower incident costs and advisory fees related to shareholder matters of \$22 million in 2022; offset by higher personal injury claim provisions, higher software and support costs and the negative translation impact of a weaker Canadian dollar.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Other income and expenses

Interest expense

In 2023, Interest expense was \$722 million compared to \$548 million in 2022. The increase was mainly due to the higher average level of debt, higher average interest rates and the negative translation impact of a weaker Canadian dollar.

Other components of net periodic benefit income

In 2023, Other components of net periodic benefit income was \$479 million compared to \$498 million in 2022. The decrease was mainly due to higher interest cost; partly offset by lower amortization of net actuarial loss and higher expected return on assets. These effects primarily resulted from changes to discount rates, lower actual returns compared to expected returns, as well as an increase to the Company's expected long-term rate of return assumption in 2023.

Other income (loss)

In 2023, Other income was \$134 million compared to Other loss of \$27 million in 2022. The favorable variance of \$161 million was mainly due to a gain on disposal of property within the Bala Subdivision located in Markham and Richmond Hill, Ontario, Canada of \$129 million.

Income tax expense

In 2023, the Company recorded an income tax expense of \$863 million compared to an income tax expense of \$1,645 million in 2022.

In the fourth quarter of 2023, the Company received a ruling from taxation authorities in a non-U.S. foreign jurisdiction in connection with prior taxation years. Consistent with the ruling, and effective as of January 1, 2021, the Company has foregone favorable tax deductions of a permanent nature on certain income generated from intercompany arrangements. This resulted in the Company generating tax-deductible goodwill approximating the value of the foregone tax deductions, which is available to be amortized over a period of up to ten years.

As a result, the Company recorded a net deferred income tax recovery of \$682 million, comprised of a \$767 million deferred income tax recovery related to the tax-deductible goodwill initially generated as of January 1, 2021, partly offset by a \$85 million income tax expense related to the foregone tax deduction (\$31 million for 2023 and \$54 million for prior years) which was initially recorded in current taxes and was then reclassified to deferred taxes following the amortization of the tax-deductible goodwill for those years. As a result, the remaining deferred income tax asset as at December 31, 2023 was \$682 million, representing the tax impact of unamortized tax-deductible goodwill of \$5.8 billion.

The effective tax rate for 2023 was 13.3% compared to 24.3% in 2022 and the adjusted effective tax rate for 2023 was 24.5%. ⁽¹⁾

In addition, the Organization for Economic Co-operation and Development (OECD) finalized its Pillar Two guidelines on some key components of global tax reform which include a global minimum corporate tax rate of 15% and the application of a top-up tax. These guidelines are effective in 2024 and have been or are expected to be enacted in a number of OECD member countries, which include the main jurisdictions in which CN operates (other than the U.S.), and as a result will affect the Company's effective tax rate for 2024 and thereafter.

For 2024, the Company anticipates the estimated annual effective tax rate to be approximately 25.0%, and reflects the impacts of the foregone tax deductions and the Pillar Two guidelines of approximately 0.5%.

The Company's net income tax payments for taxation years 2021 to 2023 were not affected and are not expected to be affected for 2024 and the next six years thereafter as a result of the tax-deductible goodwill available to be amortized in those years.

(1) Adjusted effective tax rate is a non-GAAP measure, defined as Income tax expense, net of tax adjustments as presented in Adjusted performance measures as a percentage of Income before taxes, net of pre-tax adjustments as presented in Adjusted performance measures. This measure does not have any standard meaning prescribed by GAAP and therefore, may not be comparable to a similar measure presented by other companies.

MANAGEMENT'S DISCUSSION AND ANALYSIS

2022 Results of operations

Revenues for the year ended December 31, 2022 were \$17,107 million compared to \$14,477 million in 2021. The increase of \$2,630 million, or 18%, was mainly attributable to higher fuel surcharge revenue as a result of higher fuel prices, freight rate increases, the positive translation impact of a weaker Canadian dollar, higher Canadian export volumes of coal via west coast ports and higher volumes of U.S. grain; partly offset by lower international container traffic volumes via the port of Vancouver as a result of supply chain congestion and significantly lower export volumes of Canadian grain in the first half of 2022.

Operating expenses for the year ended December 31, 2022 were \$10,267 million compared to \$8,861 million in 2021. The increase of \$1,406 million, or 16%, was mainly as a result of higher fuel prices, the negative translation impact of a weaker Canadian dollar as well the recovery of the loss on assets held for sale of \$137 million recorded in the first quarter of 2021 resulting from the Company entering into an agreement for the sale of non-core lines; partly offset by transaction-related costs of \$84 million recorded in the third quarter of 2021 resulting from the terminated CN Merger Agreement with KCS.

Operating income for the year ended December 31, 2022 increased by \$1,224 million, or 22%, to \$6,840 million, when compared to the same period in 2021. The operating ratio was 60.0% in 2022, compared to 61.2% in 2021, a 1.2-point improvement.

Net income for the year ended December 31, 2022 was \$5,118 million, an increase of \$219 million, or 4%, when compared to 2021, and diluted earnings per share increased by 8% to \$7.44. The increase was mainly driven by higher operating income in 2022, partly offset by a merger termination fee of \$886 million (\$770 million after-tax) received from KCS in 2021.

Assets held for sale

In the first quarter of 2021, CN entered into an agreement with a short line operator, for the sale of non-core lines in Wisconsin, Michigan and Ontario representing 850 miles that were classified as assets held for sale plus an additional 50 miles of track and roadway assets, resulting in a \$137 million recovery (\$102 million after-tax) of the \$486 million loss (\$363 million after-tax) recorded in the second quarter of 2020 to adjust the carrying amount of the track and roadway assets to their then estimated net selling price.

In the fourth quarter of 2021, the STB approved the Company's agreement with the short line operator without condition and the transaction closed in the first quarter of 2022 for proceeds of \$273 million.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Constant currency

Financial results at constant currency allow results to be viewed without the impact of fluctuations in foreign currency exchange rates, thereby facilitating period-to-period comparisons in the analysis of trends in business performance. Measures at constant currency are considered non-GAAP measures and do not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies. Financial results at constant currency are obtained by translating the current period results denominated in US dollars at the weighted average foreign exchange rates used to translate transactions denominated in US dollars of the comparable period of the prior year.

The average foreign exchange rates were \$1.301 and \$1.254 per US\$1.00, for the years ended December 31, 2022 and 2021, respectively.

On a constant currency basis, the Company's Net income for the year ended December 31, 2022 would have been lower by \$90 million (\$0.13 per diluted share).

The following table provides a reconciliation of the impact of constant currency and related percentage change at constant currency on the financial results, as reported for the year ended December 31, 2022:

					% Change at constant currency Fav (Unfav)
<i>In millions, except per share data</i>	<i>Year ended December 31,</i>	2022	Constant currency impact	2021	
Revenues					
Petroleum and chemicals	\$	3,229	\$ (74)	\$ 2,816	12%
Metals and minerals		1,911	(57)	1,548	20%
Forest products		2,006	(57)	1,740	12%
Coal		937	(11)	618	50%
Grain and fertilizers		2,783	(56)	2,475	10%
Intermodal		4,906	(58)	4,115	18%
Automotive		797	(24)	576	34%
Total freight revenues		16,569	(337)	13,888	17%
Other revenues		538	(15)	589	(11%)
Total revenues		17,107	(352)	14,477	16%
Operating expenses					
Labor and fringe benefits		2,935	(43)	2,879	—%
Purchased services and material		2,191	(33)	2,082	(4%)
Fuel		2,518	(88)	1,513	(61%)
Depreciation and amortization		1,729	(25)	1,598	(7%)
Equipment rents		338	(10)	336	2%
Other		556	(15)	506	(7%)
Recovery of loss on assets held for sale		—	—	(137)	(100%)
Transaction-related costs		—	—	84	100%
Total operating expenses		10,267	(214)	8,861	(13%)
Operating income		6,840	(138)	5,616	19%
Interest expense		(548)	18	(610)	13%
Other components of net periodic benefit income		498	—	407	22%
Merger termination fee		—	—	886	(100%)
Other income (loss)		(27)	—	43	(163%)
Income before income taxes		6,763	(120)	6,342	5%
Income tax expense		(1,645)	30	(1,443)	(12%)
Net income	\$	5,118	\$ (90)	\$ 4,899	3%
Diluted earnings per share	\$	7.44	\$ (0.13)	\$ 6.90	6%

MANAGEMENT'S DISCUSSION AND ANALYSIS

Revenues

<i>In millions, unless otherwise indicated</i>	<i>Year ended December 31,</i>	2022	2021	% Change	% Change at constant currency ⁽¹⁾
Freight revenues	\$	16,569	\$ 13,888	19%	17%
Other revenues		538	589	(9%)	(11%)
Total revenues	\$	17,107	\$ 14,477	18%	16%
Freight revenues					
Petroleum and chemicals	\$	3,229	\$ 2,816	15%	12%
Metals and minerals		1,911	1,548	23%	20%
Forest products		2,006	1,740	15%	12%
Coal		937	618	52%	50%
Grain and fertilizers		2,783	2,475	12%	10%
Intermodal		4,906	4,115	19%	18%
Automotive		797	576	38%	34%
Total freight revenues	\$	16,569	\$ 13,888	19%	17%
Revenue ton miles (RTMs) (<i>millions</i>)		235,788	233,138	1%	1%
Freight revenue/RTM (<i>cents</i>)		7.03	5.96	18%	15%
Carloads (<i>thousands</i>)		5,697	5,701	—%	—%
Freight revenue/carload (\$)		2,908	2,436	19%	17%

(1) This non-GAAP measure does not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies. See the section of this MD&A entitled *2022 Results of operations – Constant currency* for an explanation of this non-GAAP measure.

Revenues for the year ended December 31, 2022 totaled \$17,107 million compared to \$14,477 million in 2021. The increase of \$2,630 million, or 18%, was mainly attributable to higher fuel surcharge revenue as a result of higher fuel prices, freight rate increases, the positive translation impact of a weaker Canadian dollar, higher Canadian export volumes of coal via west coast ports and higher volumes of U.S. grain; partly offset by lower international container traffic volumes via the port of Vancouver as a result of supply chain congestion and significantly lower export volumes of Canadian grain in the first half of 2022.

Fuel surcharge revenues increased by \$1,592 million in 2022, mainly as a result of higher fuel prices.

In 2022, RTMs, measuring the weight and distance of freight transported by the Company, increased by 1% relative to 2021. Freight revenue per RTM increased by 18% in 2022 when compared to 2021, mainly driven by higher fuel surcharge revenue as a result of higher fuel prices, freight rate increases, a decrease in the average length of haul and the positive translation impact of a weaker Canadian dollar.

Petroleum and chemicals

	<i>Year ended December 31,</i>	2022	2021	% Change	% Change at constant currency
Revenues (<i>millions</i>)	\$	3,229	\$ 2,816	15%	12%
RTMs (<i>millions</i>)		46,273	42,436	9%	9%
Revenue/RTM (<i>cents</i>)		6.98	6.64	5%	3%
Carloads (<i>thousands</i>)		636	596	7%	7%
Revenue/carload (\$)		5,077	4,725	7%	5%

For the year ended December 31, 2022, revenues for this commodity group increased by \$413 million, or 15%, when compared to 2021, mainly due to higher fuel surcharge revenue, increased volumes of refined petroleum products, natural gas liquids and petroleum crude, freight rate increases and the positive translation impact of a weaker Canadian dollar.

Revenue per RTM increased by 5% in 2022 when compared to 2021, mainly due to higher fuel surcharge revenue, freight rate increases and the positive translation impact of a weaker Canadian dollar.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Metals and minerals

	Year ended December 31,	2022	2021	% Change	% Change at constant currency
Revenues (millions)	\$	1,911	\$ 1,548	23%	20%
RTMs (millions)		27,606	26,743	3%	3%
Revenue/RTM (cents)		6.92	5.79	20%	16%
Carloads (thousands)		956	969	(1%)	(1%)
Revenue/carload (\$)		1,999	1,598	25%	21%

For the year ended December 31, 2022, revenues for this commodity group increased by \$363 million, or 23%, when compared to 2021, mainly due to higher fuel surcharge revenue, freight rate increases, the positive translation impact of a weaker Canadian dollar, more revenue generating moves of empty customer-owned cars and increased volumes of frac sand.

Revenue per RTM increased by 20% in 2022 when compared to 2021, mainly due to higher fuel surcharge revenue, freight rate increases, the positive translation impact of a weaker Canadian dollar, and more revenue generating moves of empty customer-owned cars; partly offset by an increase in the average length of haul.

Forest products

	Year ended December 31,	2022	2021	% Change	% Change at constant currency
Revenues (millions)	\$	2,006	\$ 1,740	15%	12%
RTMs (millions)		25,020	25,948	(4%)	(4%)
Revenue/RTM (cents)		8.02	6.71	20%	16%
Carloads (thousands)		330	339	(3%)	(3%)
Revenue/carload (\$)		6,079	5,133	18%	15%

For the year ended December 31, 2022, revenues for this commodity group increased by \$266 million, or 15%, when compared to 2021, mainly due to higher fuel surcharge revenue, freight rate increases and the positive translation impact of a weaker Canadian dollar; partly offset by lower volumes of lumber and woodpulp as a result of continuing supply chain challenges.

Revenue per RTM increased by 20% in 2022 when compared to 2021, mainly due to higher fuel surcharge revenue, freight rate increases and the positive translation impact of a weaker Canadian dollar.

Coal

	Year ended December 31,	2022	2021	% Change	% Change at constant currency
Revenues (millions)	\$	937	\$ 618	52%	50%
RTMs (millions)		22,679	18,471	23%	23%
Revenue/RTM (cents)		4.13	3.35	23%	22%
Carloads (thousands)		503	379	33%	33%
Revenue/carload (\$)		1,863	1,631	14%	13%

For the year ended December 31, 2022, revenues for this commodity group increased by \$319 million, or 52%, when compared to 2021, mainly due to higher Canadian export volumes of thermal and metallurgical coal via west coast ports due to the re-opening of two mines in November 2021 and favorable market conditions due to rising energy prices, as well as higher fuel surcharge revenue.

Revenue per RTM increased by 23% in 2022 when compared to 2021, mainly due to higher fuel surcharge revenue and a decrease in the average length of haul.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Grain and fertilizers

	Year ended December 31,	2022	2021	% Change	% Change at constant currency
Revenues (millions)	\$	2,783	\$ 2,475	12%	10%
RTMs (millions)		55,359	58,733	(6%)	(6%)
Revenue/RTM (cents)		5.03	4.21	19%	17%
Carloads (thousands)		614	628	(2%)	(2%)
Revenue/carload (\$)		4,533	3,941	15%	13%

For the year ended December 31, 2022, revenues for this commodity group increased by \$308 million, or 12%, when compared to 2021, mainly due to higher fuel surcharge revenue, freight rate increases and increased volumes of U.S. grain and the positive translation impact of a weaker Canadian dollar; partly offset by significantly lower export volumes of Canadian grain in the first half of 2022 compared to record volumes in the prior year and reduced potash shipments.

Revenue per RTM increased by 19% in 2022 when compared to 2021, mainly due to higher fuel surcharge revenue, freight rate increases, a decrease in the average length of haul and the positive translation impact of a weaker Canadian dollar.

Intermodal

	Year ended December 31,	2022	2021	% Change	% Change at constant currency
Revenues (millions)	\$	4,906	\$ 4,115	19%	18%
RTMs (millions)		56,029	58,412	(4%)	(4%)
Revenue/RTM (cents)		8.76	7.04	24%	23%
Carloads (thousands)		2,450	2,611	(6%)	(6%)
Revenue/carload (\$)		2,002	1,576	27%	26%

For the year ended December 31, 2022, revenues for this commodity group increased by \$791 million, or 19%, when compared to 2021, mainly due to higher fuel surcharge revenue, an increase in ancillary services including container storage, freight rate increases and the positive translation impact of a weaker Canadian dollar; partly offset by lower international container traffic volumes via the port of Vancouver as a result of supply chain congestion.

Revenue per RTM increased by 24% in 2022 when compared to 2021, mainly due to higher fuel surcharge revenue, an increase in ancillary services including container storage, freight rate increases and the positive translation impact of a weaker Canadian dollar.

Automotive

	Year ended December 31,	2022	2021	% Change	% Change at constant currency
Revenues (millions)	\$	797	\$ 576	38%	34%
RTMs (millions)		2,822	2,395	18%	18%
Revenue/RTM (cents)		28.24	24.05	17%	14%
Carloads (thousands)		208	179	16%	16%
Revenue/carload (\$)		3,832	3,218	19%	15%

For the year ended December 31, 2022, revenues for this commodity group increased by \$221 million, or 38%, when compared to 2021, mainly due to higher fuel surcharge revenue, higher volumes of finished vehicles, the positive translation impact of a weaker Canadian dollar and freight rate increases.

Revenue per RTM increased by 17% in 2022 when compared to 2021, mainly due to higher fuel surcharge revenue, the positive translation impact of a weaker Canadian dollar, a decrease in the average length of haul and freight rate increases.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Other revenues

	Year ended December 31,	2022	2021	% Change	% Change at constant currency
Revenues (millions)	\$	538	\$ 589	(9%)	(11%)

For the year ended December 31, 2022, Other revenues decreased by \$51 million, or 9%, when compared to 2021, mainly due to lower revenues for international freight forwarding as a result of closing down CN Worldwide.

Operating expenses

Operating expenses for the year ended December 31, 2022, amounted to \$10,267 million compared to \$8,861 million in 2021. The increase of \$1,406 million, or 16%, was mainly as a result of higher fuel prices, the negative translation impact of a weaker Canadian dollar as well the Recovery of the loss on assets held for sale of \$137 million recorded in the first quarter of 2021 resulting from the Company entering into an agreement for the sale of non-core lines; partly offset by Transaction-related costs of \$84 million recorded in the third quarter of 2021 resulting from the terminated CN Merger Agreement with KCS.

In millions	Year ended December 31,	2022	2021	% Change	% Change at constant currency ⁽¹⁾
Labor and fringe benefits	\$	2,935	\$ 2,879	(2%)	—%
Purchased services and material		2,191	2,082	(5%)	(4%)
Fuel		2,518	1,513	(66%)	(61%)
Depreciation and amortization		1,729	1,598	(8%)	(7%)
Equipment rents		338	336	(1%)	2%
Other		556	506	(10%)	(7%)
Recovery of the loss on assets held for sale		—	(137)	(100%)	(100%)
Transaction-related costs		—	84	100%	100%
Total operating expenses	\$	10,267	\$ 8,861	(16%)	(13%)

(1) This non-GAAP measure does not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies. See the section of this MD&A entitled *2022 Results of operations – Constant currency* for an explanation of this non-GAAP measure.

Labor and fringe benefits

Labor and fringe benefits expense increased by \$56 million, or 2%, in 2022 when compared to 2021. The increase was mainly due to general wage increases, an incremental wage accrual for the tentative agreements with the U.S. unions and the negative translation impact of a weaker Canadian dollar; partly offset by lower average headcount, lower pension expense and employee termination benefits and severance costs related to a workforce reduction program in the third quarter of 2021.

Purchased services and material

Purchased services and material expense increased by \$109 million, or 5%, in 2022 when compared to 2021. The increase was mainly due to higher material costs, the negative translation impact of a weaker Canadian dollar and higher snow clearing and utility costs driven by harsher winter operating conditions; partly offset by lower international freight forwarding expense as a result of closing down CN Worldwide.

Fuel

Fuel expense increased by \$1,005 million, or 66%, in 2022 when compared to 2021. The increase was mainly as a result of higher fuel prices and the negative translation impact of a weaker Canadian dollar.

Depreciation and amortization

Depreciation and amortization expense increased by \$131 million, or 8%, in 2022 when compared to 2021. The increase was mainly due to a higher depreciable asset base and the negative translation impact of a weaker Canadian dollar.

Equipment rents

Equipment rents expense increased by \$2 million, or 1%, in 2022 when compared to 2021. The increase was mainly due to the negative translation impact of a weaker Canadian dollar; partly offset by higher locomotive horsepower-hour income.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Other

Other expense increased by \$50 million, or 10% in 2022 when compared to 2021. The increase was mainly due to higher cloud computing costs, travel costs and operating taxes as well as the negative translation impact of a weaker Canadian dollar; partly offset by higher passenger train recoveries.

Recovery of loss on assets held for sale

Recovery of loss on assets held for sale of \$137 million in the first quarter of 2021 resulting from the Company entering into an agreement with a short line operator, for the sale of non-core lines in Wisconsin, Michigan and Ontario representing 850 miles that were classified as assets held for sale plus an additional 50 miles of track and roadway assets. See *Note 6 – Assets held for sale* to the Company's 2022 Annual Consolidated Financial Statements for additional information.

Transaction-related costs

For the year ended December 31, 2021, the Company incurred transaction costs related to the terminated CN Merger Agreement of \$84 million, consisting of \$125 million of transaction-related costs; US\$700 million (\$845 million) paid to KCS and reported as an advance to KCS in the second quarter and expensed in the third quarter; and the related refund received of US\$700 million (\$886 million) in the third quarter. See *Note 4 – Acquisition* to the Company's 2022 Annual Consolidated Financial Statements for additional information.

Other income and expenses

Interest expense

In 2022, Interest expense was \$548 million compared to \$610 million in 2021. The decrease was mainly due to amortization of bridge financing and other fees of \$97 million recorded in 2021 (see *Note 4 – Acquisition* to the Company's 2022 Annual Consolidated Financial Statements for additional information); partly offset by a higher average level of debt and a negative translation impact of a weaker Canadian dollar.

Other components of net periodic benefit income

In 2022, Other components of net periodic benefit income was \$498 million compared to \$407 million in 2021. The increase was mainly due to lower amortization of net actuarial loss and higher expected return on assets; partly offset by higher interest cost.

Merger termination fee

In 2021, the Company received a US\$700 million (\$886 million) termination fee resulting from KCS terminating the CN Merger Agreement and entering into a merger agreement with CP. See *Note 4 – Acquisition* to the Company's 2022 Annual Consolidated Financial Statements for additional information.

Other income (loss)

In 2022, Other loss was \$27 million compared to Other income of \$43 million in 2021. The unfavorable variance was mainly due to fluctuations in the fair value of an equity investment in autonomous driving technology.

Income tax expense

In 2022, the Company recorded an income tax expense of \$1,645 million compared to an income tax expense of \$1,443 million in 2021.

The effective tax rate for 2022 was 24.3% compared to 22.8% in 2021. The increase in the effective tax rate was mainly attributable to the merger termination fee, transaction-related costs, and bridge financing and other fees resulting from the KCS transaction recorded in the 2021 Consolidated Statements of Income, taxed at a lower inclusion rate.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Summary of quarterly financial data

In millions, except per share data	2023 Quarters				2022 Quarters			
	Fourth	Third	Second	First	Fourth	Third	Second	First
Revenues	\$ 4,471	\$ 3,987	\$ 4,057	\$ 4,313	\$ 4,542	\$ 4,513	\$ 4,344	\$ 3,708
Operating income ⁽¹⁾	\$ 1,818	\$ 1,517	\$ 1,600	\$ 1,662	\$ 1,912	\$ 1,932	\$ 1,769	\$ 1,227
Net income ⁽¹⁾	\$ 2,130	\$ 1,108	\$ 1,167	\$ 1,220	\$ 1,420	\$ 1,455	\$ 1,325	\$ 918
Basic earnings per share	\$ 3.30	\$ 1.69	\$ 1.76	\$ 1.83	\$ 2.10	\$ 2.13	\$ 1.92	\$ 1.31
Diluted earnings per share ⁽¹⁾	\$ 3.29	\$ 1.69	\$ 1.76	\$ 1.82	\$ 2.10	\$ 2.13	\$ 1.92	\$ 1.31
Dividends per share	\$ 0.7900	\$ 0.7900	\$ 0.7900	\$ 0.7900	\$ 0.7325	\$ 0.7325	\$ 0.7325	\$ 0.7325

(1) Certain quarters include items that management believes do not necessarily arise as part of CN's normal day-to-day operations and can distort the analysis of trends in business performance. See the section of this MD&A entitled *Non-GAAP measures – Adjusted performance measures* for additional information on these items.

Revenues generated by the Company during the year are influenced by seasonal weather conditions, general economic conditions, cyclical demand for rail transportation and competitive forces in the transportation marketplace (see the section entitled *Business risks* of this MD&A for additional information). Operating expenses reflect the impact of freight volumes, seasonal weather conditions, labor costs, fuel prices, and the Company's productivity initiatives. Fluctuations in the Canadian dollar relative to the US dollar have also affected the conversion of the Company's US dollar-denominated revenues and expenses and resulted in fluctuations in Net income in the rolling eight quarters presented above.

2023 Fourth quarter operating results

Revenues for the fourth quarter of 2023 were \$4,471 million compared to \$4,542 million in 2022. The decrease of \$71 million, or 2%, was mainly due to lower shipments of intermodal and grain, primarily as a result of weaker demand for freight services to move consumer goods, the lingering negative impact of the Canadian West Coast dock workers strike and increased global grain supply; as well as lower container storage fees and lower fuel surcharge revenues as a result of lower fuel prices; partly offset by freight rate increases and higher shipments of potash, natural gas liquids and refined petroleum products.

Fuel surcharge revenues decreased by \$114 million in the fourth quarter of 2023 when compared to 2022, mainly due to lower fuel prices.

Operating expenses for the fourth quarter of 2023 increased by \$23 million, or 1%, to \$2,653 million, when compared to the same period in 2022. The increase was mainly due to higher Labor and fringe benefits expense mainly driven by general wage increases and higher average headcount and higher personal injury and legal claim provisions; partly offset by lower fuel prices.

Operating income for the fourth quarter of 2023 decreased by \$94 million, or 5%, to \$1,818 million, when compared to the same period in 2022. The operating ratio was 59.3% in the fourth quarter of 2023 compared to 57.9% in the fourth quarter of 2022, a 1.4-point increase.

Net income for the fourth quarter of 2023 was \$2,130 million, an increase of \$710 million, or 50%, when compared to the same period in 2022, and diluted earnings per share increased by 57% to \$3.29. The increase was mainly due to a net deferred income tax recovery of \$713 million resulting from tax filings consistent with a ruling that the Company received in a non-U.S. foreign jurisdiction in connection with prior taxation years.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Financial position

The following tables provide an analysis of the Company's balance sheet as at December 31, 2023 as compared to 2022. Assets and liabilities denominated in US dollars have been translated to Canadian dollars using the foreign exchange rate in effect at the balance sheet date. As at December 31, 2023 and 2022, the foreign exchange rates were \$1.3243 and \$1.3554 per US\$1.00, respectively.

<i>In millions</i>	<i>As at December 31,</i>	2023	2022	Variance	Explanation of variance
Total assets		\$ 52,666	\$ 50,662	\$ 2,004	
Cash and cash equivalents and restricted cash and cash equivalents		924	834	90	Refer to the Consolidated Statements of Cash Flows of the Company's 2023 Annual Consolidated Financial Statements.
Other current assets, excluding cash and cash equivalents and restricted cash and cash equivalents		2,165	2,383	(218)	Decrease primarily due to lower accounts receivable, prepaid expenses and income taxes receivable.
Properties		44,617	43,537	1,080	See the section of this MD&A entitled <i>Liquidity and capital resources - Investing activities</i> , increase primarily due to gross property additions of \$3,217 million, partly offset by depreciation of \$1,811 million and the effect of foreign exchange.
Operating lease right-of-use-assets		424	470	(46)	Decrease primarily due to lower lease renewals.
Pension asset		3,140	3,033	107	Increase primarily due to actual returns of \$1,867 million, partly offset by actuarial losses arising from the reduction in the year-end discount rate from 5.26% to 4.64% of \$1,013 million, interest cost of \$671 million and current service cost of \$78 million.
Deferred income tax assets		682	—	682	Represents the tax impact of unamortized tax-deductible goodwill.
Intangible assets, goodwill and other		714	405	309	Increase primarily due to the acquisition of the shares of IANR. See <i>Note 4 - Business acquisitions and combinations</i> to the Company's 2023 Annual Consolidated Financial Statements for additional information.
Total liabilities and shareholders' equity		\$ 52,666	\$ 50,662	\$ 2,004	
Accounts payable and other excluding current portion of operating lease liabilities		2,578	2,660	(82)	Decrease primarily due to timing of payments for payroll-related accruals, partly offset by higher accrued charges.
Deferred income tax liabilities		10,066	9,796	270	Increase primarily due to a deferred income tax expense of \$394 million recorded in Net income, partly offset by a foreign exchange loss of \$100 million and a deferred income tax recovery of \$29 million recorded in Other comprehensive income. The deferred income expense and recovery were mostly attributable to new temporary differences generated during the year.
Other liabilities and deferred credits		522	441	81	Increase primarily due to higher contract liabilities and higher provisions for personal injury and other claims.
Pension and other postretirement benefits		495	486	9	Increase primarily due to interest cost of \$39 million, actuarial losses arising from the reduction in year-end discount rates of \$24 million, partly offset by actual returns of \$25 million and employer contributions of \$25 million.
Total long-term debt, including the current portion		18,473	15,429	3,044	See the section of this MD&A entitled <i>Liquidity and capital resources - Financing activities</i> , increase primarily due to the issuance of Notes and the net issuance of commercial paper, partly offset by the effect of foreign exchange.
Operating lease liabilities including the current portion		415	466	(51)	Decrease primarily due to lower lease renewals.
Total shareholders' equity		20,117	21,384	(1,267)	Refer to the Consolidated Statements of Changes in Shareholders' Equity of the Company's 2023 Annual Consolidated Financial Statements.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Liquidity and capital resources

The Company's principal source of liquidity is cash generated from operations, which is supplemented by borrowings in the money markets and capital markets. To meet its short-term liquidity needs, the Company has access to various financing sources, including unsecured revolving credit facilities, commercial paper programs, and an accounts receivable securitization program. In addition to these sources, the Company can use equipment loans or issue debt securities to meet its longer-term liquidity needs. The strong focus on cash generation from all sources gives the Company increased flexibility in terms of meeting its financing requirements.

The Company's primary short-term and long-term cash requirements are discussed below:

- *Short-term cash requirements:* includes working capital requirements, such as labor and fringe benefits, fuel, income tax instalments, pension contributions, and contractual obligations; interest and principal payments on current debt financing; dividends; and share repurchases.
- *Long-term cash requirements:* includes capital expenditures relating to track infrastructure and other, interest and principal repayments of long-term debt financing, operating and finance lease obligations; business acquisitions and long-term contractual obligations.

The Company sets priorities on its uses of available funds based on short-term operational requirements, expenditures to continue to operate a safe railway and pursue strategic initiatives, while also considering its long-term contractual obligations and returning value to its shareholders; and as part of its financing strategy, the Company regularly reviews its capital structure, cost of capital, and the need for additional debt financing. For a summary of short-term and long-term contractual obligations, including material cash requirements related to such obligations, refer to the table within this section entitled *Contractual obligations*.

The Company has a working capital deficit, which is common in the capital-intensive rail industry, and is not an indication of a lack of liquidity. The Company maintains adequate resources to meet daily cash requirements, and has sufficient financial capacity to manage its day-to-day cash requirements and current obligations. As at December 31, 2023 and 2022, the Company had Cash and cash equivalents of \$475 million and \$328 million, respectively; Restricted cash and cash equivalents of \$449 million and \$506 million, respectively; and a working capital deficit of \$1,946 million and \$625 million, respectively. ⁽¹⁾ The increase in the working capital deficit was mainly due to higher commercial paper. The cash and cash equivalents pledged as collateral for a minimum term of one month pursuant to the Company's bilateral letter of credit facilities are recorded as Restricted cash and cash equivalents. There are currently no specific requirements relating to working capital other than in the normal course of business as discussed herein.

The Company's U.S. and other foreign subsidiaries maintain sufficient cash to meet their respective operational requirements. If the Company should require more liquidity in Canada than is generated by its domestic operations, the Company could decide to repatriate funds associated with undistributed earnings of its foreign operations, including its U.S. and other foreign subsidiaries. The impact on liquidity resulting from the repatriation of funds held outside Canada would not be significant as such repatriation of funds would not cause significant tax implications to the Company under the tax laws of Canada and the U.S. and other foreign tax jurisdictions, and the tax treaties currently in effect between them.

The Company expects cash from operations and its various sources of financing to be sufficient to meet its ongoing obligations. The Company is not aware of any trends or expected fluctuations in its liquidity that would impact its ongoing operations or financial condition as of the date of this MD&A.

(1) The Company defines working capital as current assets of \$3,089 million (2022 - \$3,217 million) less current liabilities of \$5,035 million (2022 - \$3,842 million).

Available financing sources

Shelf prospectus and registration statement

On May 4, 2022, the Company filed a shelf prospectus with Canadian securities regulators and a registration statement with the SEC, pursuant to which CN may issue up to \$6.0 billion of debt securities in the Canadian and U.S. capital markets over a 25-month period following the filing date. This shelf prospectus and registration statement replaced CN's previous shelf prospectus and registration statement that expired on March 11, 2022.

As at December 31, 2023, the remaining capacity of this shelf prospectus and registration statement was \$1.5 billion. Access to the Canadian and U.S. capital markets under the shelf prospectus and registration statement is dependent on market conditions.

MANAGEMENT'S DISCUSSION AND ANALYSIS

The Company's access to long-term funds in the capital markets depends on its credit ratings and market conditions. The Company believes that it continues to have access to the capital markets. If the Company were unable to borrow funds at acceptable rates in the capital markets, the Company could borrow under its credit facilities, draw down on its accounts receivable securitization program, access the pledged cash under its letter of credit facilities, raise cash by disposing of surplus properties or otherwise monetizing assets, reduce discretionary spending or take a combination of these measures to assure that it has adequate funding for its business.

Revolving credit facilities

The Company has unsecured revolving credit facilities with a consortium of lenders. The unsecured credit facility of \$2.5 billion is available for general corporate purposes and backstopping the Company's commercial paper programs. The facility consists of two tranches of \$1.25 billion and was amended on March 17, 2023 to extend its tenor by one year to March 31, 2026 and March 31, 2028. This revolving credit facility agreement is structured as a sustainability linked loan whereby its applicable margins are adjusted up or down based on the Company's performance under certain sustainability targets. The unsecured credit facility of \$1.0 billion is available for general corporate purposes and was amended on March 17, 2023 to extend its tenor by one year to March 17, 2025. Both credit facilities provide borrowings at various benchmark interest rates, such as the Secured Overnight Financing Rate (SOFR) and the Canadian Dollar Offered Rate (CDOR), plus applicable margins, based on CN's credit ratings. The facilities were also amended in March 2023 to include fallback language that addresses the cessation of CDOR and adoption of the Canadian Overnight Repo Rate Average (CORRA) as the alternative benchmark.

As at December 31, 2023 and 2022, the Company had no outstanding borrowings under these revolving credit facilities.

Equipment loans

The Company has various secured non-revolving term loan credit facilities for financing or refinancing the purchase of equipment. The equipment loans made under the non-revolving credit facilities have a tenor at inception varying from 15 to 20 years and are secured by rolling stock.

On March 31, 2023, the Company entered into new loan supplements to the existing agreement for an additional principal amount of US\$304 million, which is available to be drawn, in Canadian or U.S. dollars, through March 31, 2024. On November 3, 2023, the Company entered into a new term loan facility for a principal amount of \$366 million, which is available to be drawn through November 4, 2024. Borrowings under the non-revolving term loan facilities are provided at SOFR and/or CDOR, plus applicable margins. On March 31, 2023, outstanding loans referencing the London Interbank Offered Rate (LIBOR), were transitioned to SOFR. The facilities also include fallback language that addressed the cessation of CDOR and adoption of CORRA as the alternative benchmark. The Company made no draws under these facilities in 2023.

As at December 31, 2023, the Company had outstanding borrowings of \$677 million (2022 - \$734 million) and had \$769 million (2022 - \$nil) available to be drawn under these facilities.

Commercial paper

The Company has a commercial paper program in Canada and in the U.S. Both programs are backstopped by the Company's revolving credit facility. The maximum aggregate principal amount of commercial paper that can be issued is \$2.5 billion, or the US dollar equivalent, on a combined basis. The commercial paper programs, which are subject to market rates in effect at the time of financing, provide the Company with a flexible financing alternative, and can be used for general corporate purposes. The cost of commercial paper and access to the commercial paper market in Canada and the U.S. are dependent on credit ratings and market conditions. If the Company were to lose access to its commercial paper program for an extended period of time, the Company could rely on its revolving credit facilities to meet its short-term liquidity needs.

As at December 31, 2023 and 2022, the Company had total commercial paper borrowings of US\$1,360 million (\$1,801 million) and US\$594 million (\$805 million), respectively, presented in Current portion of long-term debt on the Consolidated Balance Sheets.

Accounts receivable securitization program

The Company has an agreement to sell an undivided co-ownership interest in a revolving pool of accounts receivable to unrelated trusts for maximum cash proceeds of \$450 million. On January 19, 2023, the Company extended the term of its agreement by one year to February 1, 2025. The trusts are multi-seller trusts and the Company is not the primary beneficiary. Funding for the acquisition of these assets is customarily through the issuance of asset-backed commercial paper notes by the unrelated trusts.

MANAGEMENT'S DISCUSSION AND ANALYSIS

The Company has retained the responsibility for servicing, administering and collecting the receivables sold. The average servicing period is approximately one month and the interest on borrowings under the accounts receivable securitization program is renewed based on commercial paper rates then in effect or SOFR or CDOR if the commercial paper market is inaccessible and includes fallback language that allows for the succession of CDOR to an alternative rate consistent with market convention. Subject to customary indemnifications, each trust's recourse is limited to the accounts receivable transferred.

The accounts receivable securitization program provides the Company with readily available short-term financing for general corporate use. In the event the program is terminated before its scheduled maturity, the Company expects to meet its future payment obligations through its various sources of financing including its revolving credit facilities and commercial paper program, and/or access to capital markets.

As at December 31, 2023, and 2022 the Company had no outstanding borrowings under the accounts receivable securitization program.

Bilateral letter of credit facilities

The Company has a series of committed and uncommitted bilateral letter of credit facility agreements. On March 17, 2023, the Company extended the maturity date of its committed bilateral letter of credit facility agreements to April 28, 2026. The agreements are held with various banks to support the Company's requirements to post letters of credit in the ordinary course of business. Under these agreements, the Company has the option from time to time to pledge collateral in the form of cash or cash equivalents, for a minimum term of one month, equal to at least the face value of the letters of credit issued.

As at December 31, 2023, the Company had outstanding letters of credit of \$337 million (2022 - \$396 million) under the committed facilities from a total available amount of \$361 million (2022 - \$470 million) and \$152 million (2022 - \$100 million) under the uncommitted facilities.

As at December 31, 2023, included in Restricted cash and cash equivalents was \$339 million (2022 - \$397 million) pledged as collateral under the committed bilateral letter of credit facilities, \$100 million (2022 - \$100 million) pledged as collateral under the uncommitted bilateral letter of credit facilities, and \$10 million (2022 - \$9 million) held in escrow.

Additional information relating to the Company's financing sources is provided in *Note 16 – Debt* to the Company's 2023 Annual Consolidated Financial Statements.

Credit ratings

The Company's ability to access funding in the debt capital markets and the cost and amount of funding available depends in part on its credit ratings. Rating downgrades could limit the Company's access to the capital markets, or increase its borrowing costs.

In the second quarter of 2023 the rating agencies took the following actions:

- DBRS maintained the outlook at stable and confirmed CN's long-term and short-term ratings at current levels at A and R-1 (low).
- Moody's Investors Service changed their outlook from negative to stable and confirmed the long-term and short-term debt ratings at A2 and P-1 respectively.
- S&P Global Ratings changed their outlook from negative to stable and downgraded the long-term debt rating from A to A- and the commercial paper rating from A-1 to A-2.

The following table provides the Company's long-term debt and commercial paper credit ratings as of the date of this MD&A:

	Outlook	Long-term debt rating ⁽¹⁾	Commercial paper rating ⁽¹⁾
DBRS Morningstar	Stable	A	R-1 (low)
Moody's Investors Service	Stable	A2	P-1
S&P Global Ratings	Stable	A-	A-2

(1) These credit ratings are not recommendations to purchase, hold, or sell the securities referred to above. Ratings may be revised or withdrawn at any time by the credit rating agencies. Each credit rating should be evaluated independently of any other credit rating.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Cash flows

<i>In millions</i>	<i>Year ended December 31,</i>	2023	2022	Variance
Net cash provided by operating activities	\$	6,965	\$ 6,667	\$ 298
Net cash used in investing activities		(3,468)	(2,510)	(958)
Net cash used in financing activities		(3,406)	(4,667)	1,261
Effect of foreign exchange fluctuations on cash, cash equivalents, restricted cash, and restricted cash equivalents		(1)	3	(4)
Net increase (decrease) in cash, cash equivalents, restricted cash, and restricted cash equivalents		90	(507)	597
Cash, cash equivalents, restricted cash, and restricted cash equivalents, beginning of year		834	1,341	(507)
Cash, cash equivalents, restricted cash, and restricted cash equivalents, end of year	\$	924	\$ 834	\$ 90

Free cash flow

Free cash flow is a useful measure of liquidity as it demonstrates the Company's ability to generate cash for debt obligations and for discretionary uses such as payment of dividends, share repurchases and strategic opportunities. The Company defines its free cash flow measure as the difference between net cash provided by operating activities and net cash used in investing activities, adjusted for the impact of (i) business acquisitions and combinations and (ii) merger transaction-related payments, cash receipts and cash income taxes, which are items that are not indicative of operating trends. Free cash flow does not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies.

The following table provides a reconciliation of Net cash provided by operating activities in accordance with GAAP, as reported for the years ended December 31, 2023, 2022 and 2021, to the non-GAAP free cash flow presented herein:

<i>In millions</i>	<i>Year ended December 31,</i>	2023	2022	2021
Net cash provided by operating activities	\$	6,965	\$ 6,667	\$ 6,971
Net cash used in investing activities		(3,468)	(2,510)	(2,873)
Net cash provided before financing activities		3,497	4,157	4,098
Adjustments:				
Business acquisitions and combinations ⁽¹⁾		390	—	—
Cash income taxes for merger transaction-related payments and cash receipts ⁽²⁾		—	102	—
Transaction-related costs ⁽³⁾		—	—	125
Advance for acquisition ⁽⁴⁾		—	—	845
Refund of advance for acquisition ⁽⁴⁾		—	—	(886)
Merger termination fee ⁽⁴⁾		—	—	(886)
Total adjustments	\$	390	\$ 102	\$ (802)
Free cash flow	\$	3,887	\$ 4,259	\$ 3,296

(1) Relates to the acquisition of the shares of Iowa Northern Railway Company for \$312 million and the business combination of Cape Breton & Central Nova Scotia Railway for \$78 million. See Note 4 – Business acquisitions and combinations to the Company's 2023 Annual Consolidated Financial Statements for additional information.

(2) Relates to income tax payments of \$102 million for KCS merger transaction-related payments and cash receipts. See Note 4 – Business acquisitions and combinations to the Company's 2023 Annual Consolidated Financial Statements for additional information.

(3) Relates to transaction-related costs of \$125 million paid. See Note 4 – Business acquisitions and combinations to the Company's 2023 Annual Consolidated Financial Statements for additional information.

(4) See Note 4 – Business acquisitions and combinations to the Company's 2023 Annual Consolidated Financial Statements for additional information.

Operating activities

Net cash provided by operating activities increased by \$298 million in 2023 when compared to 2022, mainly due to the reduction in accounts receivable and lower income tax payments; partly offset by lower cash earnings.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Pension contributions

The Company's contributions to its various defined benefit pension plans are made in accordance with the applicable legislation in Canada and the U.S. and such contributions follow minimum and maximum thresholds as determined by actuarial valuations. Pension contributions for the years ended December 31, 2023 and 2022 were \$51 million and \$70 million, respectively. For 2022, given the fully funded status of the CN Pension Plan as determined by the latest actuarial valuation for funding purposes as at December 31, 2021, the Company was prohibited from making contributions once the actuarial valuation report was filed in April 2022. For 2023, based on the results of the December 31, 2022 funding valuations, the CN Pension Plan remained fully funded and at a level such that the Company continues to be prohibited from making contributions to the CN Pension Plan.

Based on the anticipated results of the Company's next actuarial valuations for funding purposes, the CN Pension Plan is expected to remain fully funded and at a level such that the Company would continue to be prohibited from making contributions to the CN Pension Plan in 2024. As such, the Company expects to make total cash contributions of approximately \$70 million in 2024 for all other pension plans, and includes the impact of affected non-unionized members transferring from the Company's defined benefit pension plans to defined contribution pension plans effective April 1, 2024.

See the section of this MD&A entitled *Critical accounting estimates – Pensions and other postretirement benefits* for additional information pertaining to the funding of the Company's pension plans. Additional information relating to the pension plans is provided in *Note 18 – Pensions and other postretirement benefits* to the Company's 2023 Annual Consolidated Financial Statements.

Income tax payments

The Company is required to make scheduled instalment payments as prescribed by the tax authorities. In Canada, the Company's domestic jurisdiction, tax instalments in a given year are generally based on the prior year's taxable income whereas in the U.S., the Company's predominant foreign jurisdiction, they are based on forecasted taxable income of the current year.

In 2023, net income tax payments were \$1,197 million (2022 - \$1,288 million). The decrease was mainly due to lower required instalment payments in the U.S. mainly caused by lower pre-tax income.

For 2024, the Company's net income tax payments are expected to be approximately \$1.4 billion. The increase is mostly due to higher required instalment payments mainly caused by higher expected pre-tax income.

Investing activities

Net cash used in investing activities increased by \$958 million in 2023 when compared to 2022, mainly due to the higher property additions as well as the acquisition of IANR and the business combination of CBNS. See the section of this MD&A entitled *2023 Highlights - Recent developments* for additional information pertaining to the IANR and CBNS transactions.

Property additions

<i>In millions</i>	<i>Year ended December 31,</i>	2023	2022
Track and roadway ⁽¹⁾	\$	1,963	\$ 1,841
Rolling stock		663	390
Buildings		90	96
Information technology		302	293
Other		199	137
Gross property additions		3,217	2,757
Less: Finance leases		30	7
Property additions ⁽²⁾	\$	3,187	\$ 2,750

(1) In 2023, approximately 76% (2022 - 80%) of the Track and roadway property additions were incurred to renew basic infrastructure. Costs relating to normal repairs and maintenance of Track and roadway properties are expensed as incurred, and amounted to approximately 10% of the Company's total operating expenses in 2023 (2022 - 10%).

(2) In 2023 and 2022, property additions included expenditures of \$66 million and \$16 million, respectively, related to construction obligations in freight contracts for which the Company has received contract consideration (or such consideration is due) from its customers. Such consideration is recorded in Contract liabilities in the Consolidated Balance Sheets and recognized in Revenues over the life of the freight service obligation.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Reinvestment in the business

In 2023, CN spent approximately \$3.2 billion in its capital program, of which \$1.6 billion were invested to maintain the safety and integrity of its network, particularly track infrastructure. CN's capital spending also included \$0.9 billion for strategic initiatives to increase capacity, enable growth and improve network resiliency, including line capacity upgrades and information technology initiatives, and \$0.7 billion on equipment, including the acquisition of 500 new grain hopper cars.

Financing activities

Net cash used in financing activities decreased by \$1,261 million in 2023 when compared to 2022, mainly due to higher net issuance of debt including commercial paper and lower repurchases of common shares.

Debt financing activities

Debt financing activities in 2023 included the following:

- On November 1, 2023, issuance of US\$300 million (\$416 million) 5.85% Notes due 2033 and US\$300 (\$416 million) 6.13% Notes due 2053, in the U.S. capital markets, which resulted in total net proceeds of \$824 million;
- On May 15, 2023, repayment of US\$150 million (\$203 million) 7.63% Notes due 2023 upon maturity;
- On May 10, 2023, issuance of \$550 million 4.15% Notes due 2030, \$400 million 4.40% Notes due 2033 and \$800 million 4.70% Notes due 2053 in the Canadian capital markets, which resulted in total net proceeds of \$1,730 million;
- Repayment of equipment loans of \$41 million;
- Net issuance of commercial paper of \$908 million; and
- Repayment of finance leases of \$2 million.

Debt financing activities in 2022 included the following:

- On November 15, 2022, repayment of US\$250 million (\$332 million) 2.25% Notes due 2022 upon maturity;
- On August 5, 2022, issuance of US\$800 million (\$1,028 million) 3.85% Notes due 2032 and US\$700 million (\$900 million) 4.40% Notes due 2052, in the U.S. capital markets, which resulted in total net proceeds of \$1,901 million;
- Repayment of equipment loans of \$40 million;
- Net issuance of commercial paper of \$563 million; and
- Repayment of finance leases of \$7 million.

Cash obtained from the issuance of debt was used for general corporate purposes, including the redemption and refinancing of outstanding indebtedness and share repurchases. Additional information relating to the Company's outstanding debt securities is provided in *Note 16 – Debt* to the Company's 2023 Annual Consolidated Financial Statements.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Repurchase of common shares

The Company may repurchase its common shares pursuant to a NCIB at prevailing market prices plus brokerage fees, or such other prices as may be permitted by the Toronto Stock Exchange (TSX). The Company repurchased 26.6 million common shares under its NCIB effective between February 1, 2023 and January 31, 2024, which allowed for the repurchase of up to 32.0 million common shares. Previous NCIBs allowed for the repurchase of up to 42.0 million common shares between February 1, 2022 and January 31, 2023, and up to 14.0 million common shares between February 1, 2021 and January 31, 2022.

<i>In millions, except per share data</i>	<i>Year ended December 31,</i>	2023	2022	2021	Total NCIB
February 2023 - January 2024 NCIB					
Number of common shares		26.6	N/A	N/A	26.6
Weighted-average price per share ⁽¹⁾	\$	155.75	N/A	N/A	\$ 155.75
Amount of repurchase ⁽¹⁾	\$	4,142	N/A	N/A	\$ 4,142
February 2022 - January 2023 NCIB					
Number of common shares		2.5	29.4	N/A	31.9
Weighted-average price per share ⁽¹⁾	\$	162.88	\$ 156.06	N/A	\$ 156.60
Amount of repurchase ⁽¹⁾	\$	409	\$ 4,591	N/A	\$ 5,000
February 2021 - January 2022 NCIB ⁽²⁾					
Number of common shares		N/A	0.8	10.3	11.1
Weighted-average price per share ⁽¹⁾	\$	N/A	\$ 153.54	\$ 153.69	\$ 153.68
Amount of repurchase ⁽¹⁾	\$	N/A	\$ 118	\$ 1,582	\$ 1,700
Total for the year					
Number of common shares		29.1	30.2	10.3	
Weighted-average price per share ⁽¹⁾	\$	156.37	\$ 156.00	\$ 153.69	
Amount of repurchase ⁽¹⁾	\$	4,551	\$ 4,709	\$ 1,582	

(1) Includes brokerage fees.

(2) The Company suspended its share repurchase at the end of April 2021 in connection with the CN Merger Agreement with KCS. Following the termination of the CN Merger Agreement, the Company resumed share repurchases at the end of September 2021.

On January 23, 2024, the Board of Directors of the Company approved a new NCIB, which allows for the repurchase of up to 32.0 million common shares between February 1, 2024 and January 31, 2025.

On August 16, 2022, the U.S. government enacted the *Inflation Reduction Act* (IRA). The IRA imposes a one percent excise tax on specified repurchases of stock by certain publicly traded corporations, effective for repurchases after December 31, 2022. The amount on which the tax is imposed is reduced by the value of any stock issued by such corporation during the tax year. This provision currently does not impact CN. Future regulations and interpretations are expected to be issued to clarify how the excise tax will be applied in practice and may alter the Company's initial assessment. Payments of this excise tax, if it became applicable, would increase the cost of making repurchases. It would not, however, affect the Company's results of operations as they would be accounted for as direct costs of common share repurchases and recorded within Total shareholders' equity.

On March 28, 2023, the Canadian government introduced draft legislation as part of the 2023 federal budget to implement a new two percent tax on repurchases of stock effective in 2024. If this proposed two percent tax on repurchases of stock is enacted, it is expected to affect the Company. Payments of this excise tax would increase the cost of making repurchases. It would not, however, affect the Company's results of operations as they would be accounted for as direct costs of common share repurchases and recorded within Total shareholders' equity. The Company continues to monitor the developments of this draft legislation.

The Company's NCIB notices may be found online on SEDAR+ at www.sedarplus.ca and on the SEC's website at www.sec.gov through EDGAR. Printed copies may be obtained by contacting the Corporate Secretary's Office. Information contained on, or accessible through, our website is not incorporated by reference into this MD&A.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Share Trusts

The Company's Employee Benefit Plan Trusts ("Share Trusts") purchase CN's common shares on the open market, which are used to deliver common shares under the Share Units Plan and the Employee Share Investment Plan (ESIP). Shares purchased by the Share Trusts are retained until the Company instructs the trustee to transfer shares to participants of the Share Units Plan or the ESIP. Additional information relating to Share Trusts is provided in *Note 19 – Share capital* to the Company's 2023 Annual Consolidated Financial Statements.

Share purchases

<i>In millions, except per share data</i>	<i>Year ended December 31,</i>	2023	2022	2021
Share purchases by Share Units Plan Share Trusts				
Number of common shares		—	0.5	—
Weighted-average price per share	\$	—	\$ 170.85	\$ —
Amount of purchase	\$	—	\$ 81	\$ —
Share purchases by ESIP Share Trusts				
Number of common shares		0.2	0.2	0.2
Weighted-average price per share	\$	156.89	\$ 155.53	\$ 142.90
Amount of purchase	\$	28	\$ 24	\$ 26
Total purchases	\$	28	\$ 105	\$ 26

Share settlements

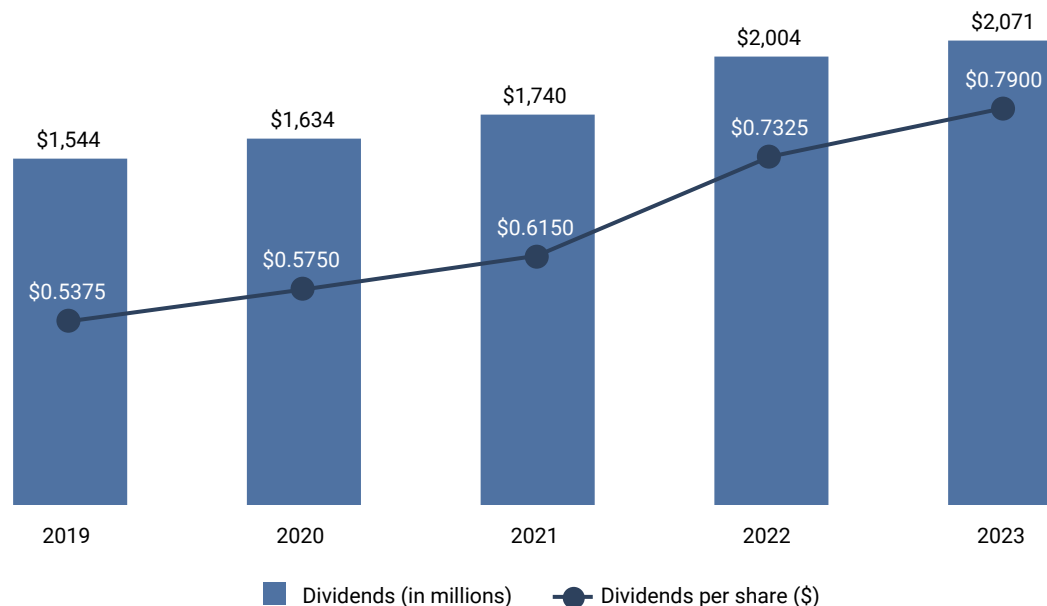
<i>In millions, except per share data</i>	<i>Year ended December 31,</i>	2023	2022	2021
Share settlements by Share Units Plan Share Trusts				
Number of common shares		0.3	0.2	0.2
Weighted-average price per share	\$	122.08	\$ 88.23	\$ 88.23
Amount of settlement	\$	31	\$ 15	\$ 20
Share settlements by ESIP Share Trusts				
Number of common shares		0.2	0.2	0.2
Weighted-average price per share	\$	151.32	\$ 141.60	\$ 128.40
Amount of settlements	\$	23	\$ 23	\$ 18
Total settlements	\$	54	\$ 38	\$ 38

MANAGEMENT'S DISCUSSION AND ANALYSIS

Dividends paid

During 2023, the Company paid quarterly dividends of \$0.7900 per share amounting to \$2,071 million, compared to \$2,004 million, at the rate of \$0.7325 per share, in 2022 and \$1,740 million, at the rate of \$0.6150 per share, in 2021. On January 23, 2024, the Company's Board of Directors approved an increase of 7% to the quarterly dividend to common shareholders, from \$0.7900 per share in 2023 to \$0.8450 per share in 2024.

The following is a summary of the dividends paid and dividends per share for the last five one-year periods ended December 31, 2023, 2022, 2021, 2020 and 2019. CN's dividend growth rate has increased at a compound annual growth rate (CAGR) of 10% over the last 5 years:



Contractual obligations

In the normal course of business, the Company incurs contractual obligations. The following table sets forth the Company's contractual obligations and related cash requirements for the following items as at December 31, 2023:

<i>In millions</i>	Total	2024	2025	2026	2027	2028	2029 & thereafter
Debt obligations ⁽¹⁾	\$ 18,435	\$ 2,309	\$ 383	\$ 695	\$ 34	\$ 1,014	\$ 14,000
Interest on debt obligations	12,834	738	722	700	689	686	9,299
Finance lease obligations	39	31	2	4	1	1	—
Operating lease obligations ⁽²⁾	451	131	111	74	48	29	58
Purchase obligations ⁽³⁾	2,222	1,785	128	63	45	201	—
Other long-term liabilities ⁽⁴⁾	1,019	90	68	53	49	46	713
Total contractual obligations	\$ 35,000	\$ 5,084	\$ 1,414	\$ 1,589	\$ 866	\$ 1,977	\$ 24,070

(1) Presented net of unamortized discounts and debt issuance costs and excludes finance lease obligations.

(2) Includes \$70 million related to renewal options reasonably certain to be exercised and \$36 million of imputed interest.

(3) Includes fixed and variable commitments for locomotives, engineering services, information technology services and licenses, railroad cars, rail, rail ties, wheels as well as other equipment and services. Costs of variable commitments were estimated using forecasted prices and volumes.

(4) Includes expected payments for workers' compensation, pension benefit payments for the Company's non-registered supplemental pension plan, postretirement benefits other than pensions, net unrecognized tax benefits and environmental liabilities.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Adjusted debt-to-adjusted EBITDA multiple

Management believes that the adjusted debt-to-adjusted EBITDA multiple is a useful credit measure because it reflects the Company's ability to service its debt and other long-term obligations. The Company calculates the adjusted debt-to-adjusted EBITDA multiple as adjusted debt divided by the last twelve months of adjusted EBITDA. Adjusted debt is defined as the sum of Long-term debt and Current portion of long-term debt as reported on the Company's Consolidated Balance Sheets as well as Operating lease liabilities, including current portion and pension plans in deficiency recognized on the Company's Consolidated Balance Sheets due to the debt-like nature of their contractual and financial obligations. Adjusted EBITDA is calculated as Net income excluding Interest expense, Income tax expense, Depreciation and amortization, operating lease cost, Other components of net periodic benefit income, Other income (loss), and other significant items that are not reflective of CN's underlying business operations and which could distort the analysis of trends in business performance. Adjusted debt and adjusted EBITDA are non-GAAP measures used to compute the Adjusted debt-to-adjusted EBITDA multiple. These measures do not have any standardized meaning prescribed by GAAP and therefore, may not be comparable to similar measures presented by other companies.

The following table provides a reconciliation of debt and Net income in accordance with GAAP, reported as at and for the years ended December 31, 2023, 2022 and 2021, respectively, to adjusted debt and adjusted EBITDA, which have been used to calculate the non-GAAP adjusted debt-to-adjusted EBITDA multiple:

<i>In millions, unless otherwise indicated</i>	<i>As at and for the year ended December 31,</i>	2023	2022	2021
Debt	\$	18,473	\$ 15,429	\$ 12,485
Adjustments:				
Operating lease liabilities, including current portion ⁽¹⁾		415	466	430
Pension plans in deficiency ⁽²⁾		362	353	447
Adjusted debt	\$	19,250	\$ 16,248	\$ 13,362
Net income	\$	5,625	\$ 5,118	\$ 4,899
Interest expense		722	548	610
Income tax expense		863	1,645	1,443
Depreciation and amortization		1,817	1,729	1,598
Operating lease cost ⁽³⁾		149	142	131
Other components of net periodic benefit income		(479)	(498)	(407)
Other loss (income)		(134)	27	(43)
Adjustments:				
Workforce reduction program ⁽⁴⁾		—	—	39
Advisory fees related to shareholder matters ⁽⁵⁾		—	22	20
Recovery on assets held for sale ⁽⁶⁾		—	—	(137)
Transaction-related costs ⁽⁷⁾		—	—	84
Merger termination fee ⁽⁸⁾		—	—	(886)
Adjusted EBITDA	\$	8,563	\$ 8,733	\$ 7,351
Adjusted debt-to-adjusted EBITDA multiple (times)		2.25	1.86	1.82

(1) Represents the present value of operating lease payments. See Note 13 – Leases to the Company's 2023 Annual Consolidated Financial Statements for additional information.

(2) Represents the total funded deficit of all defined benefit pension plans with a projected benefit obligation in excess of plan assets. See Note 18 – Pensions and other postretirement benefits to the Company's 2023 Annual Consolidated Financial Statements for additional information.

(3) Represents the operating lease costs recorded in Purchased services and material and Equipment rents within the Consolidated Statements of Income. See Note 13 – Leases to the Company's 2023 Annual Consolidated Financial Statements for additional information.

(4) Relates to employee termination benefits and severance costs related to a workforce reduction program, recorded in Labor and fringe benefits within the Consolidated Statements of Income. See the section of this MD&A entitled *Non-GAAP measures – Adjusted performance measures* for additional information.

(5) Relates to advisory fees related to shareholder matters recorded in Other expense within the Consolidated Statements of Income. See the section of this MD&A entitled *Non-GAAP measures – Adjusted performance measures* for additional information.

(6) Relates to the recovery of \$137 million of the \$486 million loss on assets held for sale recorded in the second quarter of 2020, resulting from the Company entering into an agreement for the sale of non-core lines. See Note 6 – Assets held for sale to the Company's 2023 Annual Consolidated Financial Statements for additional information.

(7) Relates to transaction costs incurred as a result of the terminated CN Merger Agreement of \$84 million, consisting of \$125 million of transaction-related costs, partially offset by \$41 million of income generated as a result of the applicable foreign exchange rates prevailing at the time of payment and related receipt of the US\$700 million advance to KCS. See Note 4 – Business acquisitions and combinations to the Company's 2023 Annual Consolidated Financial Statements for additional information.

(8) Relates to the termination fee resulting from KCS terminating the CN Merger Agreement and entering into a merger agreement with CP. See Note 4 – Business acquisitions and combinations to the Company's 2023 Annual Consolidated Financial Statements for additional information.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Off balance sheet arrangements

Guarantees and indemnifications

In the normal course of business, the Company enters into agreements that may involve providing guarantees or indemnifications to third parties and others, which may extend beyond the term of the agreements. These include, but are not limited to, standby letters of credit, surety and other bonds, and indemnifications that are customary for the type of transaction or for the railway business. As at December 31, 2023, the Company has not recorded a liability with respect to guarantees and indemnifications. Additional information relating to guarantees and indemnifications is provided in *Note 22 – Major commitments and contingencies* to the Company's 2023 Annual Consolidated Financial Statements.

Outstanding share data

As at January 31, 2024, the Company had 640.7 million common shares and 3.6 million stock options outstanding.

Financial instruments

Risk management

In the normal course of business, the Company is exposed to various risks from its use of financial instruments. To manage these risks, the Company follows a financial risk management framework, which is monitored and approved by the Company's Audit, Finance and Risk Committee, with a goal of maintaining a strong balance sheet, optimizing earnings per share and free cash flow, financing its operations at an optimal cost of capital and preserving its liquidity. The Company has limited involvement with derivative financial instruments in the management of its risks and does not hold or issue them for trading or speculative purposes.

Credit risk

Credit risk arises from cash and temporary investments, accounts receivable and derivative financial instruments. To manage credit risk associated with cash and temporary investments, the Company places these financial assets with governments, major financial institutions, or other creditworthy counterparties, and performs ongoing reviews of these entities. To manage credit risk associated with accounts receivable, the Company reviews the credit history of each new customer, monitors the financial condition and credit limits of its customers, and keeps the average daily sales outstanding within an acceptable range. The Company works with customers to ensure timely payments, and in certain cases, requires financial security, including letters of credit. CN also obtains credit insurance for certain high risk customers. Although the Company believes there are no significant concentrations of customer credit risk, economic conditions can affect the Company's customers and can result in an increase to the Company's credit risk and exposure to business failures of its customers. A widespread deterioration of customer credit and business failures of customers could have a material adverse effect on the Company's results of operations, financial position or liquidity. The Company considers the risk due to the possible non-performance by its customers to be remote.

The Company has limited involvement with derivative financial instruments, however from time to time, it may enter into derivative financial instruments to manage its exposure to interest rates or foreign currency exchange rates. To manage the counterparty risk associated with the use of derivative financial instruments, the Company enters into contracts with major financial institutions that have been accorded investment grade ratings. Though the Company is exposed to potential credit losses due to non-performance of these counterparties, the Company considers this risk to be remote.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Liquidity risk

Liquidity risk is the risk that sufficient funds will not be available to satisfy financial obligations as they come due. In addition to cash generated from operations, which represents its principal source of liquidity, the Company manages liquidity risk by aligning other external sources of funds which can be obtained upon short notice, such as revolving credit facilities, commercial paper programs, and an accounts receivable securitization program. As well, the Company can issue debt securities in the Canadian and U.S. capital markets under its shelf prospectus and registration statement. The Company's access to long-term funds in the debt capital markets depends on its credit ratings and market conditions. The Company believes that its investment grade credit ratings contribute to reasonable access to capital markets. See the section of this MD&A entitled *Liquidity and capital resources* for additional information relating to the Company's available financing sources and its credit ratings.

Foreign currency risk

The Company conducts its business in both Canada and the U.S. and as a result, is affected by currency fluctuations. Changes in the exchange rate between the Canadian dollar and the US dollar affect the Company's revenues and expenses. To manage foreign currency risk, the Company designates US dollar-denominated debt of the parent company as a foreign currency hedge of its net investment in foreign operations. As a result, from the dates of designation, foreign exchange gains and losses on translation of the Company's US dollar-denominated debt are recorded in Accumulated other comprehensive loss, which minimizes volatility of earnings resulting from the conversion of US dollar-denominated debt into the Canadian dollar.

The Company also enters into foreign exchange forward contracts to manage its exposure to foreign currency risk. As at December 31, 2023, the Company had outstanding foreign exchange forward contracts to purchase a notional value of US\$1,496 million (2022 - US\$1,311 million). These outstanding contracts are at a weighted-average exchange rate of \$1.37 per US\$1.00 (2022 - \$1.33 per US\$1.00) with exchange rates ranging from \$1.34 to \$1.39 per US\$1.00 (2022 - \$1.29 to \$1.37 per US\$1.00). The weighted-average term of the contracts is 77 days (2022 - 157 days) with terms ranging from 26 days to 178 days (2022 - 29 days to 300 days). Changes in the fair value of foreign exchange forward contracts, resulting from changes in foreign exchange rates, are recognized in Other income in the Consolidated Statements of Income as they occur. For the year ended December 31, 2023, the Company recorded a loss of \$45 million (2022 - gain of \$129 million; 2021 - loss of \$18 million), related to foreign exchange forward contracts. These gains and losses were largely offset by the re-measurement of US dollar-denominated monetary assets and liabilities recognized in Other income. As at December 31, 2023, the fair value of outstanding foreign exchange forward contracts included in Other current assets and Accounts payable and other was \$nil and \$64 million, respectively (2022 - \$33 million and \$4 million, respectively).

The estimated annual impact on Net income of a one-cent change in the Canadian dollar relative to the US dollar is approximately \$31 million.

Interest rate risk

The Company is exposed to interest rate risk, which is the risk that the fair value or future cash flows of a financial instrument will vary as a result of changes in market interest rates. Such risk exists in relation to the Company's debt. The Company mainly issues fixed-rate debt, which exposes the Company to variability in the fair value of the debt. The Company also issues debt with variable interest rates, which exposes the Company to variability in interest expense. To manage interest rate risk, the Company manages its borrowings in line with liquidity needs, maturity schedule, and currency and interest rate profile. In anticipation of future debt issuances, the Company may use derivative instruments such as forward rate agreements.

During 2023 and 2022, the Company entered into treasury lock agreements to hedge US Treasury benchmark rates related to expected debt issuances in 2023 and 2022, respectively. The treasury locks were designated as cash flow hedging instruments with cumulative gains or losses recorded in Accumulated other comprehensive loss in derivative instruments. In conjunction with the November 1, 2023 debt issuance, the Company settled a notional US\$450 million (\$622 million) of treasury locks, resulting in a cumulative gain of \$97 million. The cash proceeds were included in operating activities in the Consolidated Statements of Cash Flows, and the gain was recorded in Accumulated other comprehensive loss and is being amortized over the term of the corresponding debt and recognized as an adjustment to interest expense on the Consolidated Statements of Income. In conjunction with the August 5, 2022 debt issuance, the Company settled a notional US\$675 million (\$868 million) of treasury locks, resulting in a cumulative loss of \$2 million. This loss was recorded in Accumulated other comprehensive loss and is being amortized over the term of the corresponding debt and recognized as an adjustment to interest expense on the Consolidated Statements of Income. As at December 31, 2023 and 2022, there were no treasury locks outstanding.

The estimated annual impact on Net income of a one-percent change in the interest rate on floating rate debt is approximately \$21 million.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Commodity price risk

The Company is exposed to commodity price risk related to purchases of fuel and the potential reduction in Net income due to increases in the price of diesel. Fuel prices are impacted by geopolitical events, changes in the economy or supply disruptions. Fuel shortages can occur due to refinery disruptions, production quota restrictions, climate, and labor and political instability.

The Company manages fuel price risk by offsetting the impact of rising fuel prices with the Company's fuel surcharge program. The surcharge applied to customers is determined in the second calendar month prior to the month in which it is applied, and is generally calculated using the average monthly price of On-Highway Diesel.

While the Company's fuel surcharge program provides effective coverage, residual exposure remains given that fuel price risk cannot be completely managed due to timing and given the volatility in the market. As such, the Company may enter into derivative instruments to manage such risk when considered appropriate.

Fair value of financial instruments

The financial instruments that the Company measures at fair value on a recurring basis in periods subsequent to initial recognition are categorized into the following levels of the fair value hierarchy based on the degree to which inputs are observable:

- Level 1: Inputs are quoted prices for identical instruments in active markets
- Level 2: Significant inputs (other than quoted prices included in Level 1) are observable
- Level 3: Significant inputs are unobservable

The carrying amounts of Cash and cash equivalents and Restricted cash and cash equivalents approximate fair value. These financial instruments include highly liquid investments purchased three months or less from maturity, for which the fair value is determined by reference to quoted prices in active markets.

The carrying amounts of Accounts receivable, Other current assets and Accounts payable and other approximate fair value due to their short maturity, unless otherwise specified. The fair value of equity investments with readily determinable fair values, included in Intangible assets, goodwill and other, is classified as Level 1 with gains and losses being recorded in Other income within the Consolidated Statements of Income. The fair value of derivative financial instruments, included in Other current assets and Accounts payable and other is classified as Level 2 and is used to manage the Company's exposure to foreign currency risk. The fair value is measured by discounting future cash flows using a discount rate derived from market data for financial instruments subject to similar risks and maturities.

The carrying amount of the Company's debt does not approximate fair value. The fair value is estimated based on quoted market prices for the same or similar debt instruments, as well as discounted cash flows using current interest rates for debt with similar terms, company rating, and remaining maturity. The Company classifies debt as Level 2. As at December 31, 2023, the Company's debt, excluding finance leases, had a carrying amount of \$18,435 million (2022 - \$15,419 million) and a fair value of \$17,844 million (2022 - \$14,137 million). The carrying amount of debt excluding finance leases exceeded the fair value due to an increase in market rates compared to the stated coupon rate.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Recent accounting pronouncements

The following recent Accounting Standards Updates (ASU) issued by the Financial Accounting Standards Board (FASB) has an effective date after December 31, 2023 and has not been adopted by the Company:

ASU 2023-07 Segment reporting (Topic 280): Improvements to reportable segment disclosures

The ASU will improve financial disclosures about a public entity's reportable segments and address requests from investors for additional and more detailed information regarding reportable segment expenses. The main amendments in the ASU require public entities, including those that have a single reportable segment, to disclose on an annual and interim basis the significant segment expenses provided to the chief operating decision maker (CODM), disclose the title/position of the CODM and how the segment expenses information is used in the decision making process.

The ASU is effective for annual periods beginning after December 15, 2023. Early adoption is permitted.

The adoption of the ASU will have an impact on the Company's Consolidated Financial Statements disclosures. The Company will include the relevant disclosure within the 2024 Annual Consolidated Financial Statements and 2025 Interim Financial Statements.

ASU 2023-09 – Income Taxes (Topic 740): Improvements to income tax disclosures

The ASU amends the rules on income tax disclosures by modifying or eliminating certain existing income tax disclosure requirements in addition to establishing new requirements. The amendments address investor requests for more transparency about income taxes, including jurisdictional information, by requiring consistent categories and greater disaggregation of information. The ASU's two primary amendments relate to the rate reconciliation and income taxes paid annual disclosures.

Reconciling items presented in the rate reconciliation will be in dollar amounts and percentages, and will be disaggregated into specified categories with certain reconciling items further broken out by nature and/or jurisdiction using a 5% threshold of domestic federal taxes. Income taxes paid will be disaggregated between federal, provincial/territorial, and foreign taxing jurisdictions using a 5% threshold of total income taxes paid net of refunds received.

The ASU is effective for annual periods beginning after December 15, 2024. Early adoption is permitted for annual financial statements that have not yet been issued or made available for issuance. The ASU should be applied prospectively. Retrospective application is permitted.

The adoption of the ASU will have an impact on the Company's Consolidated Financial Statements disclosures. The required disclosure changes will be reflected in the Company's Consolidated Financial Statements when the ASU is adopted.

The following Accounting Standards Updates (ASU) issued by the Financial Accounting Standards Board (FASB) have been adopted by the Company:

ASU 2020-04 and ASU 2022-06 Reference rate reform (Topic 848): Facilitation of the effects of reference rate reform on financial reporting and related amendments

USD London Interbank Offered Rate (LIBOR) and Canadian Dollar Offered Rate (CDOR) are benchmark interest rates referenced in a variety of agreements. The publication of certain LIBOR and CDOR rates were discontinued in January 2022 and May 2021, respectively. The remaining LIBOR rates were discontinued on June 30, 2023 and the remaining CDOR rates are expected to be discontinued on June 30, 2024. The recommended alternative reference rates for LIBOR and CDOR are the Secured Overnight Financing Rate (SOFR) and Canadian Overnight Repo Rate Average (CORRA), respectively.

The ASU provides optional expedients and exceptions for applying generally accepted accounting principles to transactions affected by reference rate reform if certain criteria are met. These transactions include contract modifications, hedging relationships, and sale or transfer of debt securities classified as held-to-maturity. The ASU was effective starting on March 12, 2020, and is available to be adopted on a prospective basis no later than December 31, 2024, following the amendments of ASU 2022-06.

MANAGEMENT'S DISCUSSION AND ANALYSIS

The Company was eligible and has elected to use the optional expedient provided by the ASU which allowed the amendment to be accounted for as a non-substantial modification of an existing debt. As a result, the amendment did not have a significant impact to the Company's Consolidated Financial Statements and related disclosures. See the section of this MD&A entitled *Liquidity and capital resources - Available financing sources* for additional information on reference rate reform with respect to the non-revolving credit facility, revolving credit facilities, equipment loans and accounts receivable securitization program.

Other recently issued ASUs required to be applied on or after December 31, 2023 have been evaluated by the Company and are not expected to have a significant impact on the Company's Consolidated Financial Statements.

Critical accounting estimates

The preparation of financial statements in accordance with GAAP requires management to make estimates, judgments and assumptions that affect the reported amounts of revenues, expenses, assets and liabilities, and the disclosure of contingent assets and liabilities at the date of the financial statements. On an ongoing basis, management reviews its estimates based upon available information. Actual results could differ from these estimates. The Company's policies for income taxes, capital expenditures and depreciation and pensions and other postretirement benefits require management's more significant judgments and estimates in the preparation of the Company's consolidated financial statements and, as such, are considered to be critical. The following information should be read in conjunction with the Company's 2023 Annual Consolidated Financial Statements and Notes thereto.

Management discusses the development and selection of the Company's critical accounting policies, including the underlying estimates and assumptions, with the Audit, Finance and Risk Committee of the Company's Board of Directors. The Audit, Finance and Risk Committee has reviewed the Company's related disclosures.

Income taxes

The Company follows the asset and liability method of accounting for income taxes. Under the asset and liability method, the change in the net deferred income tax asset or liability is included in the computation of Net income or Other comprehensive income (loss). Deferred income tax assets and liabilities are measured using enacted income tax rates expected to apply to taxable income in the years in which temporary differences are expected to be recovered or settled. As a result, a projection of taxable income is required for those years, as well as an assumption of the ultimate recovery/settlement period for temporary differences. The projection of future taxable income is based on management's best estimate and may vary from actual taxable income.

On an annual basis, the Company assesses the need to establish a valuation allowance for its deferred income tax assets, and if it is deemed more likely than not that its deferred income tax assets will not be realized, a valuation allowance is recorded. The ultimate realization of deferred income tax assets is dependent upon the generation of future taxable income, of the necessary character, during the periods in which those temporary differences become deductible. Management considers the scheduled reversals of deferred income tax liabilities, the available carryback and carryforward periods, and projected future taxable income in making this assessment. As at December 31, 2023, in order to fully realize all of the deferred income tax assets excluding the tax-deductible goodwill, the Company will need to generate future taxable income of approximately \$1.8 billion, and, based upon the level of historical taxable income, projections of future taxable income of the necessary character over the periods in which the deferred income tax assets are deductible, and the reversal of taxable temporary differences, management believes, following an assessment of the current economic environment, it is more likely than not that the Company will realize the benefits of these deductible differences. Management believes it is more likely than not that CN will fully realize the benefits of the remaining \$5.8 billion unamortized tax-deductible goodwill because under the current tax laws the Company has the ability and intent to maintain the necessary intercompany arrangements that will generate sufficient future taxable income of the appropriate character in the non-U.S. foreign jurisdiction, and to fully utilize the tax-deductible goodwill. As at December 31, 2023, the Company has not recognized a deferred income tax asset of \$217 million (2022 - \$196 million) on the unrealized foreign exchange loss recorded in Accumulated other comprehensive loss relating to its net investment in U.S. subsidiaries, as the Company does not expect this temporary difference to reverse in the foreseeable future.

MANAGEMENT'S DISCUSSION AND ANALYSIS

In addition, Canadian, or domestic, tax rules and regulations, as well as those relating to foreign jurisdictions, are subject to interpretation and require judgment by the Company that may be challenged by the taxation authorities upon audit of the filed income tax returns. Tax benefits are recognized if it is more likely than not that the tax position will be sustained on examination by the taxation authorities. As at December 31, 2023, the total amount of gross unrecognized tax benefits was \$46 million, before considering tax treaties and other arrangements between taxation authorities. The amount of net unrecognized tax benefits as at December 31, 2023 was \$32 million. If recognized, \$18 million of the net unrecognized tax benefits as at December 31, 2023 would affect the effective tax rate.

The Company believes that it is reasonably possible that \$13 million of the net unrecognized tax benefits as at December 31, 2023 related to Canadian and U.S. federal, state, and provincial income tax matters, each of which are individually insignificant, may be recognized over the next twelve months as a result of settlements and a lapse of the applicable statute of limitations of which approximately half will affect the effective tax rate as the remaining amount relates to temporary differences.

The Company's deferred income tax assets are mainly composed of temporary differences related to tax-deductible goodwill, net operating losses and tax credit carryforwards, lease liabilities, the pension liability, accruals for personal injury and other claims, other postretirement benefits liability, and compensation reserves. The Company's deferred income tax liabilities are mainly composed of temporary differences related to properties, the pension asset and operating lease right-of-use assets. These deferred income tax assets and liabilities are recorded at the enacted tax rates of the periods in which the related temporary differences are expected to reverse. As a result, fiscal budget changes and/or changes in income tax laws that affect a change in the timing, the amount, and/or the income tax rate at which the temporary difference components will reverse, could materially affect deferred income tax expense as recorded in the Company's results of operations. The reversal of temporary differences is expected at future-enacted income tax rates which could change due to fiscal budget changes and/or changes in income tax laws. As a result, a change in the timing and/or the income tax rate at which the components will reverse, could materially affect deferred income tax expense as recorded in the Company's results of operations. From time to time, the federal, provincial, and state governments enact new corporate income tax rates resulting in either lower or higher tax liabilities. A one-percentage-point change in the Canadian, U.S., and non-U.S. statutory federal tax rate would have the effect of changing the deferred income tax expense by \$223 million, \$155 million, and \$58 million, respectively, in 2023.

For the year ended December 31, 2023, the Company recorded an income tax expense of \$863 million, of which \$288 million was a deferred income tax recovery. The deferred income tax recovery included a net recovery of \$682 million resulting from tax filings consistent with a ruling that the Company received in a non-U.S. foreign jurisdiction in connection with prior taxation years, comprised of a \$767 million deferred income tax recovery related to the tax-deductible goodwill initially generated as of January 1, 2021, partly offset by a \$85 million income tax expense related to the foregone tax deduction (\$31 million for 2023 and \$54 million for prior years) which was initially recorded in current taxes and was then reclassified to deferred taxes following the amortization of the tax-deductible goodwill for those years.

For the year ended December 31, 2022, the Company recorded an income tax expense of \$1,645 million, of which \$404 million was a deferred income tax expense.

For the year ended December 31, 2021, the Company recorded an income tax expense of \$1,443 million, of which \$513 million was a deferred income tax expense.

As at December 31, 2023, the Company had deferred income tax assets of \$682 million (2022 - \$nil) and deferred income tax liabilities of \$10,066 million (2022 - \$9,796 million). Additional disclosures are provided in *Note 8 – Income taxes* to the Company's 2023 Annual Consolidated Financial Statements.

Capital expenditures and depreciation

Properties are carried at cost less accumulated depreciation including asset impairment write-downs. The Company has a process in place to determine whether or not costs qualify for capitalization, which requires judgment. The cost of properties, including those under finance leases, net of asset impairment write-downs, is depreciated on a straight-line basis over their estimated service lives, measured in years, except for rail and ballast whose services lives are measured in millions of gross tons. The Company follows the group method of depreciation whereby a single composite depreciation rate is applied to the gross investment in a class of similar assets, despite small differences in the service life or salvage value of individual property units within the same asset class. The Company uses approximately 40 different depreciable asset classes.

MANAGEMENT'S DISCUSSION AND ANALYSIS

For all depreciable assets, the depreciation rate is based on the estimated service lives of the assets. Assessing the reasonableness of the estimated service lives of properties requires judgment and is based on currently available information, including periodic depreciation studies conducted by the Company. The Company's U.S. properties are subject to comprehensive depreciation studies as required by the STB and are conducted by external experts. Depreciation studies for Canadian properties are not required by regulation and are conducted internally. Studies are performed on specific asset groups on a periodic basis. Changes in the estimated service lives of the assets and their related composite depreciation rates are implemented prospectively.

The studies consider, among other factors, the analysis of historical retirement data using recognized life analysis techniques, and the forecasting of asset life characteristics. Changes in circumstances, such as technological advances, changes to the Company's business strategy, changes in the Company's capital strategy or changes in regulations can result in the actual service lives differing from the Company's estimates.

A change in the remaining service life of a group of assets, or their estimated net salvage value, will affect the depreciation rate used to amortize the group of assets and thus affect depreciation expense as reported in the Company's results of operations. A change of one year in the composite service life of the Company's fixed asset base would impact annual depreciation expense by approximately \$74 million.

Depreciation studies are a means of ensuring that the assumptions used to estimate the service lives of particular asset groups are still valid and where they are not, they serve as the basis to establish the new depreciation rates to be used on a prospective basis. In 2023, the Company completed depreciation studies for equipment properties and as a result, the Company changed the estimated service lives for various types of equipment assets and their related composite depreciation rates. The results of these depreciation studies did not materially affect the Company's annual depreciation expense.

Given the nature of the railroad and the composition of its network which is made up of homogeneous long-lived assets, it is impractical to maintain records of specific properties at their lowest unit of property.

Retirements of assets occur through the replacement of an asset in the normal course of business, the sale of an asset or the abandonment of a section of track. For retirements in the normal course of business, generally the life of the retired asset is within a reasonable range of the expected useful life, as determined in the depreciation studies, and, as such, no gain or loss is recognized under the group method. The asset's cost is removed from the asset account and the difference between its cost and estimated related accumulated depreciation (net of salvage proceeds), if any, is recorded as an adjustment to accumulated depreciation and no gain or loss is recognized. The historical cost of the retired asset is estimated by using deflation factors or indices that closely correlate to the properties comprising the asset classes in combination with the estimated age of the retired asset using a first-in, first-out approach, and applying it to the replacement value of the asset.

In each depreciation study, an estimate is made of any excess or deficiency in accumulated depreciation for all corresponding asset classes to ensure that the depreciation rates remain appropriate. The excess or deficiency in accumulated depreciation is amortized over the remaining life of the asset class.

For retirements of depreciable properties that do not occur in the normal course of business, the historical cost, net of salvage proceeds, is recorded as a gain or loss in income. A retirement is considered not to be in the normal course of business if it meets the following criteria: (i) it is unusual, (ii) it is significant in amount, and (iii) it varies significantly from the retirement pattern identified through depreciation studies. A gain or loss is recognized in Other income for the sale of land or disposal of assets that are not part of railroad operations.

For the year ended December 31, 2023, the Company recorded total depreciation expense of \$1,811 million (2022 - \$1,723 million; 2021 - \$1,593 million). As at December 31, 2023, the Company had Properties of \$44,617 million, net of accumulated depreciation of \$17,394 million (2022 - \$43,537 million, net of accumulated depreciation of \$16,526 million). Additional disclosures are provided in *Note 12 – Properties* to the Company's 2023 Annual Consolidated Financial Statements.

GAAP requires the use of historical cost as the basis of reporting in financial statements. As a result, the cumulative effect of inflation, which has significantly increased asset replacement costs for capital-intensive companies such as CN, is not reflected in operating expenses. Depreciation charges on an inflation-adjusted basis, assuming that all operating assets are replaced at current price levels, would be substantially greater than historically reported amounts.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Pensions

Effective January 1, 2022, CN elected to change its accounting methodology for determining the market-related value of assets for the Company's defined benefit pension plans. The new accounting method changed the calculation of market-related value of pension plan assets used to determine net periodic benefit cost but had no impact on the annual funded status of the plans. The Company's previous methodology calculated market-related value for pensions whereby realized and unrealized gains/losses and appreciation/depreciation in the value of the investments were recognized over a period of five years. The Company's new methodology applies a corridor approach so that the market-related value does not result in a value that deviates excessively from its fair value. Specifically, the market-related value will not exceed 110% or be less than 90% of the fair value. This change established a corridor approach whereby the amount causing the market-related value to be outside of the 10% corridor is recognized immediately in the market-related value of assets and will not be subject to the five-year period of recognition. There is no change in the recognition approach for investment income.

Pensions and other postretirement benefits

The Company's plans have a measurement date of December 31.

<i>In millions</i>	<i>As at December 31,</i>	2023	2022
Pension asset	\$	3,140	\$ 3,033
Pension liability	\$	362	\$ 353
Other postretirement benefits liability ⁽¹⁾	\$	145	\$ 147

(1) Includes current portion of \$12 million as at December 31, 2023 (2022 - \$14 million). See Note 15 – Accounts payable and other to the Company's 2023 Annual Consolidated Financial Statements for the related current portion.

The descriptions in the following paragraphs pertaining to pensions relate generally to the Company's main pension plan, the CN Pension Plan, unless otherwise specified.

Amendments to postretirement medical benefits plans in the U.S.

In June 2022, CN approved changes affecting members participating in the Company's postretirement medical benefits plans in the U.S. Beginning in 2023, Medicare-eligible retirees are covered by a health reimbursement arrangement, which is an employer-funded account that can be used for reimbursement of eligible medical expenses. Non-Medicare eligible retirees continue to be covered by the existing self-insured program. This change constituted a plan amendment event resulting in a \$28 million reduction to the affected plans' Accumulated projected benefit obligation, recorded in Other comprehensive income, and is composed of a prior service credit of \$21 million and an actuarial gain of \$7 million, substantially all due to lower expected future benefit payments and to the approximate 130 basis point increase in the end of period discount rates between December 31, 2021 and May 31, 2022, respectively.

Curtailment event

On October 31, 2021, the CN Board of Directors approved changes affecting non-unionized members participating in the Company's defined benefit pension plans. Effective April 1, 2024, the affected defined benefit pension plans will be amended to cease benefits accruals for non-unionized members, generally known as a delayed hard freeze. Effective April 1, 2024, all non-unionized members will be transferred to the Company's defined contribution pension plans for their future service. This delayed hard freeze constitutes a plan curtailment event recognized on October 31, 2021 resulting in a \$52 million reduction to the Projected benefit obligation, recorded in Other comprehensive income as an actuarial gain, mostly due to reflecting projected future salary increases and service only up to April 1, 2024. The curtailment event also triggered an interim re-measurement of the funded status of the affected defined benefit pension plans resulting in an actuarial gain of \$1,915 million recorded in Other comprehensive income composed of i) an actuarial gain on the Projected benefit obligation of \$1,808 million substantially all due to the 84 basis point increase in the end of period discount rate between December 31, 2020 of 2.55% and October 31, 2021 of 3.39%, and ii) an actuarial gain on the Plan assets of \$107 million due to higher actual returns of \$982 million compared to expected returns of \$875 million over that same ten-month period. Due to the interim re-measurement, the resulting Net periodic benefit income recorded during the fourth quarter of 2021 increased by \$25 million composed of i) a decrease to Current service cost of \$9 million, and ii) an increase to Other components of net periodic benefit income of \$16 million.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Calculation of net periodic benefit cost (income)

In accounting for pensions and other postretirement benefits, assumptions are required for, among other things, the discount rate, the expected long-term rate of return on plan assets, the rate of compensation increase, health care cost trend rates, mortality rates, employee early retirements, terminations and disability. Changes in these assumptions result in actuarial gains or losses, which are recognized in Other comprehensive income (loss). The Company generally amortizes these gains or losses into net periodic benefit cost (income) over the expected average remaining service life of the employee group covered by the plans only to the extent that the unrecognized net actuarial gains and losses are in excess of the corridor threshold, which is calculated as 10% of the greater of the beginning-of-year balances of the projected benefit obligation or market-related value of plan assets. The Company's net periodic benefit cost (income) for future periods is dependent on demographic experience, economic conditions and investment performance. Recent demographic experience has revealed no material net gains or losses on termination, retirement, disability and mortality. Experience with respect to economic conditions and investment performance is further discussed herein.

Net periodic benefit cost (income)

<i>In millions</i>	<i>Year ended December 31,</i>	2023	<i>2022</i>	<i>2021</i>
Net periodic benefit income for pensions	\$	(393)	\$ (340)	\$ (210)
Net periodic benefit cost for other postretirement benefits	\$	(2)	\$ 1	\$ 2

Projected pension benefit obligation and accumulated other postretirement benefit obligation

<i>In millions</i>	<i>As at December 31,</i>	2023	<i>2022</i>
Projected pension benefit obligation	\$	14,755	\$ 13,909
Accumulated other postretirement benefit obligation	\$	145	\$ 147

Discount rate assumption

The Company's discount rate assumption, which is set annually at the end of each year, is determined by management with the aid of third-party actuaries. The discount rate is used to measure the single amount that, if invested at the measurement date in a portfolio of high-quality debt instruments with a rating of AA or better, would provide the necessary cash flows to pay for pension benefits as they become due. For the Canadian pension and other postretirement benefit plans, future expected benefit payments are discounted using spot rates based on a derived AA corporate bond yield curve for each maturity year. A year-end discount rate of 4.64% based on bond yields prevailing at December 31, 2023 (2022 - 5.26%) was considered appropriate by the Company.

The Company uses the spot rate approach to measure current service cost and interest cost for all defined benefit pension and other postretirement benefit plans. Under the spot rate approach, individual spot discount rates along the same yield curve used in the determination of the projected benefit obligation are applied to the relevant projected cash flows for current service cost at the relevant maturity. More specifically, current service cost is measured using the cash flows related to benefits expected to be accrued in the following year by active members of a plan and interest cost is measured using the projected cash flows making up the projected benefit obligation multiplied by the corresponding spot discount rate at each maturity. As at December 31, 2023, the rate to determine current service cost was 5.25% (2022 - 3.40%) and the rate to determine interest cost was 5.21% (2022 - 2.67%).

As at December 31, 2023, a 0.25% decrease in discount rates used to determine the projected benefit obligation, current service cost and interest cost would have resulted in a decrease of approximately \$380 million to the funded status for pensions and would result in a decrease of approximately \$18 million to the 2024 projected net periodic benefit income. A 0.25% increase in discount rates would have resulted in an increase of approximately \$360 million to the funded status for pensions and would result in an increase of approximately \$17 million to the 2024 projected net periodic benefit income.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Expected long-term rate of return assumption

The expected long-term rate of return is determined based on expected future performance for each asset class and is weighted based on the investment policy. Consideration is taken of the historical performance, the premium return generated from an actively managed portfolio, as well as current target asset allocations, published market return expectations, economic developments, inflation rates and administrative expenses. Based on these factors, the rate is determined by the Company. For 2023, the Company used a long-term rate of return assumption of 7.60% on the market-related value of plan assets to compute net periodic benefit cost (income). In 2024, the Company will decrease the expected long-term rate of return on plan assets by 30 basis points to 7.30% to reflect management's current view of long-term investment returns.

The assets of the Company's various plans are primarily held in separate trust funds ("Trusts") which are diversified by asset type, geography, sector and investment strategy. Each year, the CN Board of Directors reviews and confirms or amends the Statement of Investment Policies and Procedures (SIPP) which includes the plans' long-term target asset allocation ("Policy") and related benchmark indices. This Policy is based on the long-term expectations of the economy and financial market returns and considers the dynamics of the plans' pension benefit obligations. In 2023, the Policy was amended to implement a target asset allocation change to bonds and mortgages and equities. These changes were taken into account in the determination of the Company's expected long-term rate of return assumption. In 2023, the Policy was: 2% cash and short-term investments, 41% bonds and mortgages, 2% emerging market debt, 3% private debt, 29% equities, 4% real estate, 5% resource and royalties, 4% infrastructure, 2% specialty portfolio, 12% absolute return investments and negative 4% for investment-related liabilities.

Annually, the CN Investment Division ("Investment Manager"), a division of the Company created to invest and administer the assets of the plans, can also implement an investment strategy ("Strategy") which can lead the Plan's actual asset allocation to deviate from the Policy due to changing market risks and opportunities. The Pension and Investment Committee of the Board of Directors ("Committee") regularly compares the actual plan asset allocation to the Policy and Strategy and compares the actual performance of the Company's pension plan assets to the performance of the benchmark indices.

The Committee's approval is required for all major investments in illiquid securities. The SIPP allows for the use of derivative financial instruments to implement strategies, to hedge and to adjust existing or anticipated exposures. The SIPP prohibits investments in securities of the Company or its subsidiaries.

	2023	2022	2021	2020	2019
Actual	11.9%	(14.2%)	8.7%	12.5%	12.2%
Market-related value	5.0%	2.8%	8.0%	7.1%	6.1%
Expected	7.60%	7.00%	6.79%	7.00%	7.00%

The Company's expected long-term rate of return on plan assets reflects management's view of long-term investment returns and the effect of a 1% variation in such rate of return would result in a change to the net periodic benefit cost (income) of approximately \$110 million. Management's assumption of the expected long-term rate of return is subject to risks and uncertainties that could cause the actual rate of return to differ materially from management's assumption. There can be no assurance that the plan assets will be able to earn the expected long-term rate of return on plan assets.

Net periodic benefit income for pensions for 2024

In 2024, the Company expects net periodic benefit income to be approximately \$350 million for all its defined benefit pension plans, as compared to actual net periodic benefit income of \$393 million for the year ended December 31, 2023.

Plan asset allocation

Based on the fair value of the assets held as at December 31, 2023, the assets of the Company's various plans are comprised of 2% in cash and short-term investments, 41% in bonds and mortgages, 2% in emerging market debt, 6% in private debt, 25% in equities, 3% in real estate, 7% in resource and royalties, 4% in infrastructure, 2% in specialty portfolio, 14% in absolute return investments and negative 6% in investment-related liabilities. See *Note 18 – Pensions and other postretirement benefits* to the Company's 2023 Annual Consolidated Financial Statements for additional information on the fair value measurements of such assets.

MANAGEMENT'S DISCUSSION AND ANALYSIS

A significant portion of the plans' assets are invested in publicly traded equity securities whose return is primarily driven by stock market performance. Debt securities also account for a significant portion of the plans' investments and provide a partial offset to the variation in the pension benefit obligation that is driven by changes in the discount rate. The funded status of the plan fluctuates with market conditions and impacts funding requirements. The Company will continue to make contributions to the pension plans that as a minimum meet pension legislative requirements.

Rate of compensation increase

The rate of compensation increase is determined by the Company based upon its long-term plans for such increases. For 2023, a basic rate of compensation increase of 2.75% was used to determine the projected benefit obligation and the net periodic benefit cost (income).

Mortality

The Canadian Institute of Actuaries (CIA) published in 2014 a report on Canadian Pensioners' Mortality ("Report"). The Report contained Canadian pensioners' mortality tables and improvement scales based on experience studies conducted by the CIA. The CIA's conclusions were taken into account in selecting management's best estimate mortality assumption used to calculate the projected benefit obligation as at December 31, 2023, 2022 and 2021.

Funding of pension plans

The Company's main Canadian defined benefit pension plan, the CN Pension Plan, accounts for 93% of the Company's pension obligation and can produce significant volatility in pension funding requirements, given the pension fund's size, the many factors that drive the plan's funded status, and Canadian statutory pension funding requirements. Adverse changes to the assumptions used to calculate the plan's funding status, particularly the discount rate used for funding purposes, as well as changes to existing federal pension legislation, regulation and guidance could significantly impact the Company's future contributions.

For accounting purposes, the funded status is calculated under generally accepted accounting principles for all pension plans. For funding purposes, the funded status is also calculated under going concern and solvency scenarios as prescribed under pension legislation and subject to guidance issued by the CIA and the Office of the Superintendent of Financial Institutions (OSFI) for all registered Canadian defined benefit pension plans. The Company's funding requirements are determined upon completion of actuarial valuations. Actuarial valuations are generally required on an annual basis for all Canadian defined benefit pension plans, or when deemed appropriate by the OSFI. Actuarial valuations are also required annually for the Company's U.S. qualified defined benefit pension plans.

The Company's most recently filed actuarial valuations for funding purposes for its Canadian registered defined pension plans conducted as at December 31, 2022 indicated a funding excess on a going concern basis of approximately \$4.4 billion and a funding excess on a solvency basis of approximately \$1.6 billion, calculated using the three-year average of the plans' hypothetical wind-up ratio in accordance with the *Pension Benefit Standards Regulations, 1985*. The federal pension legislation requires funding deficits, if any, to be paid over a number of years, as calculated under current pension regulations. Alternatively, a letter of credit can be subscribed to fulfill required solvency deficit payments.

The Company's next actuarial valuations for funding purposes for its Canadian registered defined benefit pension plans required as at December 31, 2023 will be performed in 2024. These actuarial valuations are expected to identify a funding excess on a going concern basis of approximately \$4.9 billion, while on a solvency basis a funding excess of approximately \$2.6 billion is expected.

Based on the anticipated results of these valuations, the CN Pension Plan is expected to remain fully funded and at a level such that the Company would continue to be prohibited from making contributions to the CN Pension Plan in 2024. As such, the Company expects to make total cash contributions of approximately \$70 million in 2024 for all other pension plans, and includes the impact of affected non-unionized members transferring from the Company's defined benefit pension plans to defined contribution pension plans effective April 1, 2024. The Company expects cash from operations and its other sources of financing to be sufficient to meet its 2024 funding obligations.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Information disclosed by major pension plan

<i>In millions</i>	<i>December 31, 2023</i>	CN Pension Plan	BC Rail Pension Plan	U.S. and other plans	Total
Plan assets by category					
Cash and short-term investments	\$	360	\$ 3	\$ 4	\$ 367
Bonds		6,540	425	185	7,150
Mortgages		1	—	—	1
Emerging market debt		350	—	2	352
Private debt		1,016	—	5	1,021
Public equities		4,035	96	48	4,179
Private equities		613	—	3	616
Real estate		437	—	2	439
Resource and royalties		1,266	—	6	1,272
Infrastructure		657	—	3	660
Absolute return		2,334	26	12	2,372
Total investments		17,609	550	270	18,429
Investment-related liabilities ⁽¹⁾		(799)	(65)	(4)	(868)
Other ⁽²⁾		(48)	3	17	(28)
Total plan assets	\$	16,762	\$ 488	\$ 283	\$ 17,533
Projected benefit obligation at end of year	\$	13,711	\$ 401	\$ 643	\$ 14,755
Company contributions in 2023	\$	—	\$ —	\$ 25	\$ 25
Employee contributions in 2023	\$	64	\$ —	\$ —	\$ 64

(1) Investment-related liabilities include securities sold under repurchase agreements.

(2) Other consists of operating assets of \$143 million and liabilities of \$171 million required to administer the Trusts' investment assets and the plans' benefit and funding activities.

Additional disclosures are provided in *Note 18 – Pensions and other postretirement benefits* to the Company's 2023 Annual Consolidated Financial Statements.

Business risks

In the normal course of business, the Company is exposed to various business risks and uncertainties that can have an effect on the Company's results of operations, financial position, or liquidity. While some exposures may be reduced by the Company's risk management strategies, many risks are driven by external factors beyond the Company's control or are of a nature which cannot be eliminated. The key areas of business risks and uncertainties described in this section are not the only ones that can affect the Company. Additional risks and uncertainties not currently known to management or that may currently not be considered material by management, could nevertheless also have an adverse effect on the Company's business.

Competition

The Company faces significant competition, including from rail carriers and other modes of transportation, and is also affected by its customers' flexibility to select among various origins and destinations, including ports, in getting their products to market. Specifically, the Company faces competition from Canadian Pacific Kansas City Limited (CPKC), which operates the other major rail system in Canada and services most of the same industrial areas, commodity resources and population centers as the Company; major U.S. railroads and other Canadian and U.S. railroads; long-distance trucking companies, transportation via the St. Lawrence-Great Lakes Seaway and the Mississippi River and transportation via pipelines. In addition, while railroads must build or acquire and maintain their rail systems, motor carriers and barges are able to use public rights-of-way that are built and maintained by public entities without paying fees covering the entire costs of their usage.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Competition is generally based on the quality and the reliability of the service provided, access to markets, as well as price. Factors affecting the competitive position of customers, including exchange rates and energy cost, could materially adversely affect the demand for goods supplied by the sources served by the Company and, therefore, the Company's volumes, revenues and profit margins. Factors affecting the general market conditions for the Company's customers can result in an imbalance of transportation capacity relative to demand. An extended period of supply/demand imbalance could negatively impact market rate levels for all transportation services, and more specifically the Company's ability to maintain or increase rates. This, in turn, could materially and adversely affect the Company's business, results of operations or financial position.

Previous consolidation of rail systems in the U.S. have resulted in larger rail systems that are in a position to compete effectively with the Company in numerous markets.

There can be no assurance that the Company will be able to compete effectively against current or future competitors in the transportation industry, or that further consolidation within the transportation industry and legislation allowing for more leniency in size and weight for motor carriers will not adversely affect the Company's competitive position. No assurance can be given that competitive pressures in transportation markets will not lead to reduced revenues, profit margins or both.

Environmental matters

The Company's operations are subject to numerous federal, provincial, state, municipal and local environmental laws and regulations in Canada and the U.S. concerning, among other things, emissions into the air; discharges into waters; the generation, handling, storage, transportation, treatment and disposal of waste, hazardous substances and other materials; decommissioning of underground and aboveground storage tanks; and soil and groundwater contamination. A risk of environmental liability is inherent in railroad and related transportation operations; real estate ownership, operation or control; and other commercial activities of the Company with respect to both current and past operations. As a result, the Company incurs significant operating and capital costs, on an ongoing basis, associated with environmental regulatory compliance and clean-up requirements in its railroad operations and relating to its past and present ownership, operation or control of real property.

While the Company believes that it has identified the costs likely to be incurred for environmental matters in the next several years based on known information, the discovery of new facts, the participation and financial viability of other parties responsible for any such liability, future changes in laws, the possibility of releases of hazardous materials into the environment and the Company's ongoing efforts to identify potential environmental liabilities that may be associated with its properties may result in the identification of additional environmental liabilities and related costs.

In railroad and related transportation operations, it is possible that derailments or other accidents, including spills and releases of hazardous materials, may occur that could cause harm to human health or to the environment. In addition, the Company is also exposed to potential catastrophic liability risk, faced by the railroad industry in general, in connection with the transportation of toxic inhalation hazard materials such as chlorine and anhydrous ammonia, or other dangerous commodities such as crude oil and propane that the Company may be required to transport as a result of its common carrier obligations. Therefore, the Company may incur costs in the future, which may be material, to address any such harm, compliance with laws or other risks, including costs relating to the performance of clean-ups, payment of environmental penalties and remediation obligations, and damages relating to harm to individuals or property.

The environmental liability for any given contaminated site varies depending on the nature and extent of the contamination; the available clean-up techniques; evolving regulatory standards governing environmental liability; and the number of potentially responsible parties and their financial viability. As such, the ultimate cost of addressing known contaminated sites cannot be definitively established. Also, additional contaminated sites yet unknown may be discovered or future operations may result in accidental releases.

While some exposures may be reduced by the Company's risk mitigation strategies (including periodic audits, employee training programs, emergency plans and procedures, and insurance), many environmental risks are driven by external factors beyond the Company's control or are of a nature which cannot be completely eliminated. Therefore, there can be no assurance, notwithstanding the Company's mitigation strategies, that liabilities or costs related to environmental matters will not be incurred in the future or that environmental matters will not have a material adverse effect on the Company's results of operations, financial position or liquidity, or reputation.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Personal injury and other claims

In the normal course of business, the Company becomes involved in various legal actions seeking compensatory and occasionally punitive damages, including actions brought on behalf of various purported classes of claimants and claims relating to employee and third-party personal injuries, occupational disease, and property damage, arising out of harm to individuals or property allegedly caused by, but not limited to, derailments or other accidents. The Company maintains provisions for such items, which it considers to be adequate for all of its outstanding or pending claims and benefits from insurance coverage for occurrences in excess of certain amounts. The final outcome with respect to actions outstanding or pending at December 31, 2023, or with respect to future claims, cannot be predicted with certainty, and therefore there can be no assurance that their resolution will not have a material adverse effect on the Company's results of operations, financial position or liquidity, in a particular quarter or fiscal year.

Labor negotiations

The working conditions of the Company's unionized workforce are governed by collective agreements which are negotiated from time to time. Disputes relating to the renewal of collective agreements have previously resulted in and could in the future potentially result in strikes, lockouts, slowdown of the business and ultimately loss of business. There can be no assurance that the Company will be able to renew and have its collective agreements ratified without a strike or lockout or that the resolution of these negotiations will not have a material adverse effect on the Company's results or financial position. Future labor agreements could increase labor and fringe benefits and related expenses.

Economic conditions

The Company is susceptible to changes in the economic conditions of the industries and geographic areas that produce and consume the freight it transports or the supplies it requires to operate. In addition, many of the goods and commodities carried by the Company experience cyclical demand. For example, the volatility in domestic and global energy markets could impact the demand for transportation services as well as impact the Company's fuel costs and surcharges, and such price increases could have a material adverse effect on the Company's results of operations. In addition, the volatility in other commodity markets such as coal and iron ore could have an impact on volumes. Many of the bulk commodities the Company transports move offshore and are affected more by global rather than North American economic conditions. Adverse North American and global economic conditions, or economic or industrial restructuring, that affect the producers and consumers of the commodities carried by the Company, including customer insolvency, may have a material adverse effect on the volume of rail shipments and/or revenues from commodities carried by the Company, and thus materially and negatively affect its results of operations, financial position, or liquidity. Moreover, supply chain disruptions in North America and internationally, including labor shortages or other services disruptions affecting trucking, ports, handling facilities, customer facilities or other railroads, may adversely affect volumes of goods and timelines, and therefore adversely affect CN's operations and financial results.

Regulation

The Company is subject to regulatory and legislative initiatives in the operation of its business.

Economic regulation – Canada

The Company's rail operations in Canada are subject to economic regulation by the Canadian Transportation Agency under the *Canada Transportation Act*, which provides rate and service remedies, including final offer arbitration, long-haul interswitching rates and mandatory interswitching. It also regulates the maximum revenue entitlement for the movement of regulated grain, charges for railway ancillary services and noise-related disputes. In addition, various Company business transactions must gain prior regulatory approval, with attendant risks and uncertainties, and the Company is subject to government oversight with respect to rate, service and business practice issues.

Economic regulation – U.S.

The Company's U.S. rail operations are subject to economic regulation by the STB. The STB serves as both an adjudicatory and regulatory body and has jurisdiction over certain railroad rate and service issues and rail restructuring transactions such as mergers, line sales, line construction and line abandonments. As such, various Company business transactions must gain prior regulatory approval and aspects of its pricing and service practices may be subject to challenge, with attendant risks and uncertainties. Recent proposals in proceedings undertaken by the STB in a number of significant matters remain pending.

Safety regulation – Canada

The Company's rail operations in Canada are subject to safety regulation by the Minister under the *Railway Safety Act* as well as the rail portions of other safety-related statutes, which are administered by Transport Canada. The Company may be required to transport toxic inhalation hazard materials as a result of its common carrier obligations and, as such, is also subject to additional regulatory oversight in Canada. The *Transportation of Dangerous Goods Act*, also administered by Transport Canada, establishes the safety requirements for the transportation of goods classified as dangerous and enables the adoption of regulations for security training and screening of personnel working with dangerous goods, as well as the development of a program to require a transportation security clearance for dangerous goods, the tracking of dangerous goods during transport and the development of an emergency response plan.

Safety regulation – U.S.

The Company's U.S. rail operations are subject to safety regulation by the FRA under the *Federal Railroad Safety Act* as well as rail portions of other safety statutes, with the transportation of certain hazardous commodities also governed by regulations promulgated by the Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA requires carriers operating in the U.S. to report annually the volume and route-specific data for cars containing these commodities; conduct a safety and security risk analysis for each used route; identify a commercially practicable alternative route for each used route; and select for use the practical route posing the least safety and security risk. In addition, the Transportation Security Administration (TSA) requires rail carriers to provide upon request, within five minutes for a single car and 30 minutes for multiple cars, location and shipping information on cars on their networks containing toxic inhalation hazard materials and certain radioactive or explosive materials; and ensure the secure, attended transfer of all such cars to and from shippers, receivers and other carriers that will move from, to, or through designated high-threat urban areas.

Regulation – Vessels

The Company's vessel operations are subject to regulation by the U.S. Coast Guard and the Department of Transportation, Maritime Administration, which regulate the ownership and operation of vessels operating on the Great Lakes and in U.S. coastal waters. In addition, the Environmental Protection Agency has authority to regulate air emissions from these vessels.

Security

The Company is subject to statutory and regulatory directives in the U.S. addressing homeland security concerns. In the U.S., safety matters related to security are overseen by the TSA, which is part of the U.S. Department of Homeland Security (DHS) and PHMSA, which, like the FRA, is part of the U.S. Department of Transportation. Border security falls under the jurisdiction of U.S. Customs and Border Protection (CBP), which is part of the DHS. In Canada, the Company is subject to regulation by the Canada Border Services Agency (CBSA). Matters related to agriculture-related shipments crossing the Canada/U.S. border also fall under the jurisdiction of the U.S. Department of Agriculture (USDA) and the Food and Drug Administration (FDA) in the U.S. and the Canadian Food Inspection Agency (CFIA) in Canada. More specifically, the Company is subject to:

- border security arrangements, pursuant to an agreement the Company and CPKC entered into with the CBP and the CBSA;
- the CBP's Customs-Trade Partnership Against Terrorism (C-TPAT) program and designation as a low-risk carrier under CBSA's Customs Self-Assessment (CSA) program;
- regulations imposed by the CBP requiring advance notification by all modes of transportation for all shipments into the U.S. The CBSA is also working on similar requirements for Canada-bound traffic;
- inspection for imported fruits and vegetables grown in Canada and the agricultural quarantine and inspection (AQI) user fee for all traffic entering the U.S. from Canada; and
- gamma ray screening of cargo entering the U.S. from Canada, and potential security and agricultural inspections at the Canada/U.S. border.

The Company has worked with the AAR to develop and put in place an extensive industry-wide security plan to address terrorism and security-driven efforts by state and local governments seeking to restrict the routings of certain hazardous materials. If such state and local routing restrictions were to go into force, they would be likely to add to security concerns by foreclosing the Company's most optimal and secure transportation routes, leading to increased yard handling, longer hauls, and the transfer of traffic to lines less suitable for moving hazardous materials, while also infringing upon the exclusive and uniform federal oversight over railroad security matters.

While the Company will continue to work closely with the CBSA, CBP, and other Canadian and U.S. agencies, as described above, no assurance can be given that these and future decisions by the U.S., Canadian, provincial, state, or local governments on homeland security matters, legislation on security matters enacted by the U.S. Congress or Parliament, or joint decisions by the industry in response to threats to the North American rail network, will not materially adversely affect the Company's results of operations, or its competitive and financial position.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Transportation of hazardous materials

As a result of its common carrier obligations, the Company is legally required to transport dangerous goods and hazardous materials, including toxic inhalation hazard materials regardless of risk or potential exposure or loss. A train accident involving the transport of these commodities could result in significant costs and claims for personal injury, property damage, environmental penalties and remediation in excess of insurance coverage for these risks, which may materially adversely affect the Company's results of operations, or its competitive and financial position.

No assurance can be given that these and any other current or future regulatory or legislative initiatives by the Canadian or U.S. federal government and agencies will not materially adversely affect the Company's results of operations or its competitive and financial position.

Pandemic risk

Severe disruptions in regional economies and the world economy can be caused by the outbreak of a contagious illness, such as the COVID-19 pandemic. Such pandemics and efforts to contain them could result in international, national and local border closings, travel restrictions, significant disruptions to business operations, supply chains, customer activity and demand, service cancellations, reductions and other changes, significant challenges in healthcare service preparation and delivery, and quarantines, as well as considerable general concern and uncertainty, all of which could negatively affect the economic environment and may in the future have further impacts, as was the case for the COVID-19 pandemic. It is not possible to predict what measures and restrictions may be imposed by governmental authorities and the period of time during which those measures and restrictions may apply. Economic and supply chain disruptions, including temporary staff shortages resulting from a pandemic, could further materially affect the Company's financial results and operations. A pandemic could also further and significantly impact freight demand and commodity prices in connection with ensuing economic disruption, supply shortages, trade disruption, temporary staff shortages and temporary closures of facilities in geographic locations more importantly impacted by the outbreak. The scope and severity of such disruptions and their impact on the Company's financial results and operations could be material.

Pension funding volatility

The Company's funding requirements for its defined benefit pension plans are determined using actuarial valuations. See the section of this MD&A entitled *Critical accounting estimates – Pensions and other postretirement benefits* for information relating to the funding of the Company's defined benefit pension plans. Adverse changes with respect to pension plan returns and the level of interest rates as well as changes to existing federal pension legislation and regulation may significantly impact future pension contributions and have a material adverse effect on the funding status of the plans and the Company's results of operations.

There can be no assurance that the Company's pension expense and funding of its defined benefit pension plans will not increase in the future and thereby negatively impact earnings and/or cash flow.

Reliance on technology and related cybersecurity risk

The Company relies on information technology operated by it or under the control of third parties in all aspects of its business. The Company's and its key third-party vendors' information technology systems are critical to its ability to safely and effectively meet customer expectations, track, maintain, and operate trains and related vehicles, manage employees, and interface with customers, suppliers, vendors, and other third parties.

MANAGEMENT'S DISCUSSION AND ANALYSIS

The Company and its third-party vendors and service providers have been subject to, and are likely to continue to be the target of, data breaches, cyber-attacks and other similar incidents. These incidents may include, among other things, malware, ransomware, distributed denial of service attacks, social engineering, phishing, theft, malfeasance or improper access by employees or third-party vendors, human error, fraud, or other modes of attack or disruption. Security threats continue to grow, are increasing in frequency, levels of persistence, intensity and sophistication, and can come from nation states, organized criminals, hackers and others. The Company and its third-party vendors and service providers are at heightened risk due to the Company's position as a critical component of both the Canadian and U.S. infrastructure and may be impacted by cyber-attacks or security incidents, whether accidental or malicious. While the Company has security and mitigation programs, including business continuity and disaster recovery plans, in place to protect its operations, as well as information and technology assets, a cyber-attack, significant disruption or failure of its information technology and communications systems or those of its third-party vendors or service providers, including system failure, security breach, disruption by malware or other damage could interrupt or delay the Company's operations, result in service interruptions, safety failures, security violations, regulatory compliance failures or other operational difficulties, damage its reputation, cause a loss of customers, vendors, suppliers, agents, or third-party capacity providers and lead to misappropriation of assets, misuse or corruption of critical data and proprietary information, and unauthorized system and data access or disclosures. The Company may experience security breaches that could remain undetected for an extended period and, therefore, have a greater impact on the services provided. A cyber incident or interruption of information technology systems, even for short periods of time, could expose the Company to a risk of loss, litigation, regulatory oversight, enforcement actions, damage to its reputation or cause it to incur significant time and expense to remedy such an event, any of which could have a material adverse impact on its operational and financial position.

Cybersecurity laws and regulations continue to evolve, and are increasingly demanding, both in the U.S. and Canada, which adds compliance complexity and may increase the Company's costs of compliance and expose it to reputational damage or litigation, monetary damages, regulatory enforcement actions, or fines. The Company has invested and continues to invest in technology security initiatives, information technology risk management, business continuity and disaster recovery plans, and other security and mitigation programs to meet evolving network and cybersecurity expectations and regulations. The development and maintenance of these measures is costly and requires ongoing monitoring and updating as technologies change and efforts to overcome security measures become increasingly more frequent, intense, and sophisticated. Despite the Company's efforts, however, it remains subject to the risk of cyber-attacks that could have a material adverse impact on its operational and financial position.

In addition, if the Company is unable to acquire or implement new technology, the Company may suffer a competitive disadvantage within the rail industry and with companies providing other modes of transportation service, which could also have an adverse effect on its operational and financial position.

Trade restrictions

Global as well as North American trade conditions, including trade barriers on certain commodities, may interfere with the free circulation of goods across Canada and the U.S. or the cost associated therewith.

There can be no assurance that trade actions will not materially adversely affect the volume of rail shipments and/or revenues from commodities carried by the Company, and thus materially and negatively impact earnings and/or cash flow.

Terrorism and international conflicts

Potential terrorist actions can have a direct or indirect impact on the transportation infrastructure, including railway infrastructure in North America, and can interfere with the free flow of goods. Rail lines, facilities and equipment could be directly targeted or become indirect casualties, which could interfere with the free flow of goods. International conflicts, including war, can also have an impact on the Company's markets. Government response to such events could adversely affect the Company's operations. Insurance premiums could also increase significantly or coverage could become unavailable.

Customer credit risk

In the normal course of business, the Company monitors the financial condition and credit limits of its customers and reviews the credit history of each new customer. Although the Company believes there are no significant concentrations of credit risk, economic conditions can affect the Company's customers and can result in an increase to the Company's credit risk and exposure to the business failures of its customers. A widespread deterioration of customer credit and/or business failures of customers could have a material adverse effect on the Company's results of operations, financial position or liquidity.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Liquidity

Disruptions in financial markets or deterioration of the Company's credit ratings could hinder the Company's access to external sources of funding to meet its liquidity needs. There can be no assurance that changes in the financial markets will not have a negative effect on the Company's liquidity and its access to capital at acceptable terms and rates.

Supplier concentration

The Company operates in a capital-intensive industry where the complexity of rail equipment (including rolling stock equipment, locomotives, rail and ties) limits the number of suppliers available. The Company also competes with other industries for available capacity and raw materials used in the production of locomotives and certain rail and rolling stock equipment. The supply market could be disrupted if changes in the economy caused any of the Company's suppliers to cease production or to experience capacity or supply shortages. The supply market could become further concentrated and could result in changes to the product or service offerings by suppliers. This could also result in cost increases to the Company and difficulty in obtaining and maintaining the Company's rail equipment and materials. Since the Company also has foreign suppliers, international relations, trade restrictions and global economic and other conditions may potentially interfere with the Company's ability to procure necessary equipment and materials. Widespread business failures of, or restrictions on suppliers, could have a material adverse effect on the Company's results of operations or financial position.

Availability of qualified personnel

The Company may experience demographic challenges in the employment levels of its workforce. Changes in employee demographics, training requirements and the availability of qualified personnel, particularly locomotive engineers and conductors and information technologists, could negatively impact the Company's ability to meet demand for rail service. The Company monitors employment levels and seeks to ensure that there is an adequate supply of personnel to meet rail service requirements. However, the Company's efforts to attract and retain qualified personnel may be hindered by specific conditions in the job market. No assurance can be given that demographic or other challenges will not materially adversely affect the Company's results of operations or its financial position.

Fuel costs and supply disruptions

The Company is susceptible to the volatility of fuel prices due to changes in the economy or supply disruptions. Rapid fluctuations in fuel prices or fuel supply disruptions can occur due to refinery disruptions, production quota restrictions, increased demand in existing or emerging foreign markets, climate, international politics, labor and political instability, as well as war. Increases in fuel prices or supply disruptions may materially adversely affect the Company's results of operations, financial position or liquidity.

Foreign exchange

The Company conducts its business in both Canada and the U.S. and as a result, is affected by currency fluctuations. Changes in the exchange rate between the Canadian dollar and other currencies (including the US dollar) make the goods transported by the Company more or less competitive in the world marketplace and thereby may adversely affect the Company's revenues and expenses.

Interest rates

The Company is exposed to interest rate risk relating to the Company's debt. The Company mainly issues fixed-rate debt, which exposes the Company to variability in the fair value of the debt. The Company also issues debt with variable interest rates, which exposes the Company to variability in interest expense. Adverse changes to market interest rates may significantly impact the fair value or future cash flows of the Company's financial instruments. There can be no assurance that changes in the market interest rates will not have a negative effect on the Company's results of operations or liquidity.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Transportation network disruptions

Due to the integrated nature of the North American freight transportation infrastructure, the Company's operations may be negatively affected by service disruptions of its own network, including illegal blockades, as well as of other transportation links such as ports and other railroads which interchange with the Company. A significant prolonged service disruption of CN's network or one or more of these entities could have an adverse effect on the Company's results of operations, financial position or liquidity. Furthermore, deterioration in the cooperative relationships with the Company's connecting carriers could directly affect the Company's operations.

Severe weather

The Company's success is dependent on its ability to operate its railroad efficiently. Severe weather and natural disasters, such as extreme cold or heat, flooding, droughts, fires, hurricanes, landslides and earthquakes, can disrupt operations and service for the railroad, affect the performance of locomotives and rolling stock, disrupt operations for both the Company and its customers as well as damage the Company's infrastructure or properties. Changes in weather patterns caused by climate change are expected to increase the frequency, severity or duration of certain adverse weather conditions. Business interruptions resulting from severe weather could result in increased costs, including modifications to existing infrastructure or implementation of new infrastructure to prevent or reduce severity of future impacts to the Company's business, and increased liabilities and lower revenues, which could have a material adverse effect on the Company's results of operations, financial condition or liquidity. If any natural occurrence leads to catastrophic interruption of service, the Company may not be able to restore service without a significant interruption in operations.

Insurance maintained by the Company to protect against loss of business and other related consequences resulting from these natural occurrences is subject to coverage limitations, depending on the nature of the risk insured. This insurance may not be sufficient to cover all of the Company's damages or damages to others, and may not continue to be available at commercially reasonable rates.

Climate change

Market changes

The Company's business is based on transporting a wide variety of commodities from suppliers to the marketplace. The Company regularly transports energy commodities that serve refineries, processing locations, and end-users across North America and global markets. The Company's business lines include thermal and metallurgical coal, crude oil and petroleum products, including liquefied petroleum gas, fuel oil, asphalt, gasoline, condensate (diluent), and lubricant oils. Shifting consumer demand to lower-carbon products and increased climate-focused regulations, such as carbon pricing and fuel regulations, may bring about a broad transition in the energy sector. Programs that place a price on carbon emissions or other government restrictions on certain market sectors may further impact current and potential freight rail customers in the energy sector. A comprehensive transition in the energy sector could significantly impact the markets of the Company's energy customers or lead to market differentiation through geographic variation in policies and demand trends. A portion of the Company's business could be materially affected by potential future changes and instability of such a transition. Government incentives encouraging the use of alternative sources of energy also could affect certain of the Company's customers and the markets for certain of the commodities it carries in a manner that could alter our traffic patterns. Climate change could affect the markets for, or the volume of, the goods the Company carries or otherwise have a material adverse effect on the Company's results of operations, financial positions or liquidity.

Government actions

Government action or inaction to address climate change could also affect CN. The Company is currently subject to climate change and other emissions-related laws and regulations that have been proposed and, in some cases adopted, at the federal, provincial and state levels. While CN is continually focused on efficiency improvements and reducing its carbon footprint, cap and trade systems, carbon taxes, or other controls on emissions of greenhouse gases imposed by various government bodies could increase the Company's capital and operating costs. An escalating price on carbon emissions could materially increase direct costs related to fuel purchases and indirect expenses related to purchased goods, materials, and electricity required to operate our business. The Company may not be able to offset such impacts through, for example, higher freight rates. Climate change legislation and regulation could also affect CN's customers; make it difficult for CN's customers to produce products in a cost-competitive manner due to increased energy costs; and increase legal costs related to defending and resolving legal claims and other litigation related to climate change.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Reputation

The Company has a well-recognized brand that our customers associate with quality and safe transportation services. Failure to maintain quality, ethical and socially responsible operations across the Company's supply chain could materially adversely affect its brand and reputation. Public concerns about the environmental impact of the Company's operations could also negatively impact consumers' perceptions of the Company's brand and reputation. Any negative publicity about, or significant damage to, the Company's brand and reputation could have an adverse impact on customer perception and confidence, which could materially adversely affect the Company's results of operations or its financial position. Also, the pervasiveness and viral nature of social media could exacerbate any negative publicity with respect to the Company's business practices.

Moreover, increasing governmental and public awareness and concern about ESG matters, notably climate change, sustainability, diversity and Indigenous relations, could result in enhanced legal requirements or public expectations, in each case, that aim or require to expand the nature, scope and complexity of matters that the Company is required to control, assess, comply with or report. The Company's inability to meet evolving requirements and/or expectations could materially adversely affect the Company's brand and reputation, which could in turn materially adversely affect the Company's results of operations or its financial position. The Company's access to capital could also be negatively affected if financial institutions, rating agencies and/or lenders adopt more restrictive ESG policies that the Company may not be able to meet.

Additionally, CN has set a number of specific climate targets, which are subject to ongoing disclosure by the Company. Achieving these targets is subject to several risks and uncertainties, and there can be no certainty that the Company will achieve these targets within the stated timeframe, or that achieving any of these targets will meet all of the expectations of its stakeholders or applicable legal requirements. Risks associated with achieving the Company's climate targets include but are not limited to future investments in and the availability of greenhouse gas (GHG) emissions-reduction tools and technologies, significant changes in the Company's GHG emissions profile as a result of changes to its railway asset base, the Company's ability to work with governments and third parties to mitigate the impacts of climate change, domestic and international economic conditions, including exchange rates, the effects of competition and regulation, uncertainties in the financial markets, capital spending, actions of vendors, the willingness of customers to acquire our services, cost of network expansion, maintenance and retrofits, and physical impact of climate change on our business. Also, the implementation of these objectives may expose it to certain additional heightened financial and operational risks, and is expected to require additional costs, which may be higher than anticipated. If the Company is unable to achieve its climate targets or satisfy the expectations of its stakeholders, its brand and reputation could be materially and adversely affected.

Controls and procedures

The Company's Chief Executive Officer and its Chief Financial Officer, after evaluating the effectiveness of the Company's disclosure controls and procedures (as defined in *Exchange Act* Rules 13a-15(e) and 15d-15(e)) as of December 31, 2023, have concluded that the Company's disclosure controls and procedures were effective.

During the fourth quarter ended December 31, 2023, there were no changes in the Company's internal control over financial reporting (as defined in *Exchange Act* Rules 13a-15(f) and 15d-15(f)) that materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

As of December 31, 2023, management has assessed the effectiveness of the Company's internal control over financial reporting (as defined in *Exchange Act* Rules 13a-15(f) and 15d-15(f)) using the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission in *Internal Control – Integrated Framework* (2013). Based on this assessment, management has determined that the Company's internal control over financial reporting was effective as of December 31, 2023, and issued Management's Report on Internal Control over Financial Reporting dated January 31, 2024 to that effect.

MANAGEMENT'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING

Management is responsible for establishing and maintaining adequate internal control over financial reporting. 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. Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements.

Management has assessed the effectiveness of the Company's internal control over financial reporting as of December 31, 2023 using the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission in *Internal Control - Integrated Framework* (2013). Based on this assessment, management has determined that the Company's internal control over financial reporting was effective as of December 31, 2023.

KPMG LLP, an independent registered public accounting firm, has issued an unqualified audit report on the effectiveness of the Company's internal control over financial reporting as of December 31, 2023 and has also expressed an unqualified audit opinion on the Company's 2023 consolidated financial statements as stated in their Reports of Independent Registered Public Accounting Firm dated January 31, 2024.

(s) *Tracy Robinson*

President and Chief Executive Officer

January 31, 2024

(s) *Ghislain Houle*

Executive Vice-President and Chief Financial Officer

January 31, 2024

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Shareholders and Board of Directors
Canadian National Railway Company:

Opinion on the consolidated financial statements

We have audited the accompanying consolidated balance sheets of Canadian National Railway Company (the "Company") as of December 31, 2023 and 2022, the related consolidated statements of income, comprehensive income, changes in shareholders' equity, and cash flows for each of the years in the three-year period ended December 31, 2023, and the related notes (collectively, the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2023 and 2022, and the results of its operations and its cash flows for each of the years in the three-year period ended December 31, 2023, in conformity with U.S. generally accepted accounting principles.

We also have 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, 2023, 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 January 31, 2024 expressed an unqualified opinion on the effectiveness of the Company's internal control over financial reporting.

Basis for opinion

These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated 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 consolidated 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 consolidated 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 consolidated 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 consolidated financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical audit matters

The critical audit matters communicated below are matters arising from the current period audit of the consolidated financial statements that were communicated or required to be communicated to the audit committee and that: (1) relate to accounts or disclosures that are material to the consolidated 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 consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Evaluation of income taxes

As discussed in Note 8 to the consolidated financial statements, the deferred income tax assets were \$682 million and the deferred income tax liabilities were \$10,066 million as of December 31, 2023, and income tax expense was \$863 million for the year ended December 31, 2023. The Company operates in different tax jurisdictions which requires the Company to make significant judgments and estimates in relation to its tax positions.

We identified the evaluation of the deferred income tax assets, the deferred income tax liabilities, and income tax expense as a critical audit matter due to the magnitude of these tax balances and complexities in the evaluation of the application of the relevant tax regulations applicable to the Company. A high degree of auditor judgment was required in assessing certain of the Company's tax positions and balances.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

The following are the primary procedures we performed to address this critical audit matter. We evaluated the design and tested the operating effectiveness of certain internal controls related to the Company's reconciliation and analysis of its deferred income tax balances. We involved income tax professionals with specialized skills and knowledge who assisted in: (1) assessing the Company's interpretation of the relevant tax regulations; (2) evaluating the reasonability of the Company's tax positions; and (3) analyzing the Company's deferred income tax balances by comparing prior year tax estimates to actual tax returns filed, and evaluating the Company's reconciliation of the deferred income tax balances to the underlying temporary differences.

Evaluation of capitalization of costs relating to track and railway infrastructure

As discussed in Note 12 to the consolidated financial statements, capital additions, net of finance leases, were \$3,187 million for the year ended December 31, 2023, of which \$1,529 million related to track and railway infrastructure maintenance, including the replacement of rail, ties, bridge improvements, and other general track maintenance. As discussed in Note 1 to the consolidated financial statements, expenditures related to self-constructed properties include direct material, labor, and contracted services, as well as other allocated costs.

We identified the evaluation of capitalization of costs relating to track and railway infrastructure as a critical audit matter. The magnitude and complexities in self-constructed properties, as well as the judgments involved in determining whether the expenditure met the Company's pre-determined capitalization criteria required subjective auditor judgment.

The following are the primary procedures we performed to address this critical audit matter. We evaluated the design and tested the operating effectiveness of certain internal controls related to the Company's capital additions process, including controls related to the monitoring of budget versus actual costs on capital projects and the Company's assessment that the expenditures charged to projects meet the Company's pre-determined capitalization criteria. For a sample of capital expenditure additions, we examined underlying documentation and assessed whether the expenditure met the Company's pre-determined capitalization criteria. The testing was performed at a disaggregated level by type of cost (including direct material, labor, and contracted services), and for rail, included comparisons to prior period per unit measures by region. In addition, we examined the Company's budget versus actual analysis on capital projects and assessed the Company's explanations of differences exceeding pre-determined testing thresholds.

(s) KPMG LLP

We have served as the Company's auditors since 1992.

Montréal, Canada

January 31, 2024

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Shareholders and Board of Directors
Canadian National Railway Company:

Opinion on internal control over financial reporting

We have audited the Canadian National Railway Company's (the "Company") internal control over financial reporting as of December 31, 2023, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2023, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) ("PCAOB"), the consolidated balance sheets of the Company as of December 31, 2023 and 2022, the related consolidated statements of income, comprehensive income, changes in shareholders' equity and cash flows for each of the years in the three-year period ended December 31, 2023, and the related notes (collectively the "consolidated financial statements"), and our report dated January 31, 2024 expressed an unqualified opinion on those consolidated 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 Management's Report 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 of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audit also included 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) KPMG LLP

Montréal, Canada
January 31, 2024

Contents

Consolidated Statements of Income	73
Consolidated Statements of Comprehensive Income	73
Consolidated Balance Sheets	74
Consolidated Statements of Changes in Shareholders' Equity	75
Consolidated Statements of Cash Flows	76
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS	
Note 1 - Summary of significant accounting policies	77
Note 2 - Change in accounting policy	83
Note 3 - Recent accounting pronouncements	84
Note 4 - Business acquisitions and combinations	85
Note 5 - Revenues	87
Note 6 - Assets held for sale	87
Note 7 - Other income (loss)	87
Note 8 - Income taxes	88
Note 9 - Earnings per share	91
Note 10 - Accounts receivable	91
Note 11 - Other current assets	91
Note 12 - Properties	92
Note 13 - Leases	92
Note 14 - Intangible assets, goodwill and other	94
Note 15 - Accounts payable and other	94
Note 16 - Debt	95
Note 17 - Other liabilities and deferred credits	98
Note 18 - Pensions and other postretirement benefits	99
Note 19 - Share capital	108
Note 20 - Stock-based compensation	109
Note 21 - Accumulated other comprehensive loss	114
Note 22 - Major commitments and contingencies	115
Note 23 - Financial instruments	118
Note 24 - Segmented information	120
Note 25 - Subsequent event	120

CONSOLIDATED STATEMENTS OF INCOME

<i>In millions, except per share data</i>	<i>Year ended December 31,</i>	2023	2022	2021
Revenues (Note 5)	\$	16,828	\$ 17,107	\$ 14,477
Operating expenses				
Labor and fringe benefits		3,150	2,935	2,879
Purchased services and material		2,254	2,191	2,082
Fuel		2,097	2,518	1,513
Depreciation and amortization		1,817	1,729	1,598
Equipment rents		359	338	336
Other		554	556	506
Recovery on assets held for sale (Note 6)		—	—	(137)
Transaction-related costs (Note 4)		—	—	84
Total operating expenses		10,231	10,267	8,861
Operating income		6,597	6,840	5,616
Interest expense		(722)	(548)	(610)
Other components of net periodic benefit income (Note 18)		479	498	407
Merger termination fee (Note 4)		—	—	886
Other income (loss) (Note 7)		134	(27)	43
Income before income taxes		6,488	6,763	6,342
Income tax expense (Note 8)		(863)	(1,645)	(1,443)
Net income	\$	5,625	\$ 5,118	\$ 4,899
Earnings per share (Note 9)				
Basic	\$	8.55	\$ 7.46	\$ 6.91
Diluted	\$	8.53	\$ 7.44	\$ 6.90
Weighted-average number of shares (Note 9)				
Basic		657.7	686.4	708.5
Diluted		659.1	688.3	710.3

See accompanying notes to Consolidated Financial Statements.

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

<i>In millions</i>	<i>Year ended December 31,</i>	2023	2022	2021
Net income	\$	5,625	\$ 5,118	\$ 4,899
Other comprehensive income (loss) (Note 21)				
Net gain (loss) on foreign currency translation		(101)	366	(52)
Net change in pension and other postretirement benefit plans (Note 18)		(334)	(250)	2,066
Derivative instruments (Note 23)		96	(2)	—
Other comprehensive income (loss) before income taxes		(339)	114	2,014
Income tax recovery (expense)		29	158	(544)
Other comprehensive income (loss)		(310)	272	1,470
Comprehensive income	\$	5,315	\$ 5,390	\$ 6,369

See accompanying notes to Consolidated Financial Statements.

CONSOLIDATED BALANCE SHEETS

<i>In millions</i>	<i>As at December 31,</i>	2023	2022
Assets			
Current assets			
Cash and cash equivalents	\$	475	\$ 328
Restricted cash and cash equivalents (Note 16)		449	506
Accounts receivable (Note 10)		1,300	1,371
Material and supplies		699	692
Other current assets (Note 11)		166	320
Total current assets		3,089	3,217
Properties (Note 12)		44,617	43,537
Operating lease right-of-use assets (Note 13)		424	470
Pension asset (Note 18)		3,140	3,033
Deferred income tax assets (Note 8)		682	—
Intangible assets, goodwill and other (Note 14)		714	405
Total assets	\$	52,666	\$ 50,662
Liabilities and shareholders' equity			
Current liabilities			
Accounts payable and other (Note 15)	\$	2,695	\$ 2,785
Current portion of long-term debt (Note 16)		2,340	1,057
Total current liabilities		5,035	3,842
Deferred income tax liabilities (Note 8)		10,066	9,796
Other liabilities and deferred credits (Note 17)		522	441
Pension and other postretirement benefits (Note 18)		495	486
Long-term debt (Note 16)		16,133	14,372
Operating lease liabilities (Note 13)		298	341
Total liabilities		32,549	29,278
Shareholders' equity			
Common shares (Note 19)		3,512	3,613
Common shares in Share Trusts (Note 19)		(144)	(170)
Additional paid-in capital		373	381
Accumulated other comprehensive loss (Note 21)		(2,279)	(1,969)
Retained earnings		18,655	19,529
Total shareholders' equity		20,117	21,384
Total liabilities and shareholders' equity	\$	52,666	\$ 50,662

See accompanying notes to Consolidated Financial Statements.

On behalf of the Board of Directors:

(s) Shauneen Bruder
Director

(s) Tracy Robinson
Director

CONSOLIDATED STATEMENTS OF CHANGES IN SHAREHOLDERS' EQUITY

<i>In millions</i>	Number of common shares		Common shares	Common shares in Share Trusts	Additional paid-in capital	Accumulated other comprehensive loss	Retained earnings	Total shareholders' equity
	Outstanding	Share Trusts						
Balance at December 31, 2020	710.3	1.3	\$3,698	\$ (115)	\$ 379	\$ (3,711)	\$19,400	\$ 19,651
Net income							4,899	4,899
Stock options exercised	0.7		60		(8)			52
Settlement of equity settled awards (Note 19)	0.4	(0.4)		38	(60)		(42)	(64)
Stock-based compensation and other					86		(2)	84
Repurchase of common shares (Note 19)	(10.3)		(54)				(1,528)	(1,582)
Share purchases by Share Trusts (Note 19)	(0.2)	0.2		(26)				(26)
Other comprehensive income (Note 21)						1,470		1,470
Dividends (\$2.46 per share)							(1,740)	(1,740)
Balance at December 31, 2021	700.9	1.1	3,704	(103)	397	(2,241)	20,987	22,744
Net income							5,118	5,118
Stock options exercised	0.6		70		(9)			61
Settlement of equity settled awards (Note 19)	0.4	(0.4)		38	(84)		(22)	(68)
Stock-based compensation and other					77		(2)	75
Repurchase of common shares (Note 19)	(30.2)		(161)				(4,548)	(4,709)
Share purchases by Share Trusts (Note 19)	(0.7)	0.7		(105)				(105)
Other comprehensive income (Note 21)						272		272
Dividends (\$2.93 per share)							(2,004)	(2,004)
Balance at December 31, 2022	671.0	1.4	3,613	(170)	381	(1,969)	19,529	21,384
Net income							5,625	5,625
Stock options exercised	0.5		56		(7)			49
Settlement of equity settled awards (Note 19)	0.5	(0.5)		54	(77)		(32)	(55)
Stock-based compensation and other					76		(2)	74
Repurchase of common shares (Note 19)	(29.1)		(157)				(4,394)	(4,551)
Share purchases by Share Trusts (Note 19)	(0.2)	0.2		(28)				(28)
Other comprehensive loss (Note 21)						(310)		(310)
Dividends (\$3.16 per share)							(2,071)	(2,071)
Balance at December 31, 2023	642.7	1.1	\$3,512	\$ (144)	\$ 373	\$ (2,279)	\$18,655	\$ 20,117

See accompanying notes to Consolidated Financial Statements.

CONSOLIDATED STATEMENTS OF CASH FLOWS

<i>In millions</i>	<i>Year ended December 31,</i>	2023	2022	2021
Operating activities				
Net income		\$ 5,625	\$ 5,118	\$ 4,899
Adjustments to reconcile net income to net cash provided by operating activities:				
Depreciation and amortization		1,817	1,729	1,598
Pension income and funding		(418)	(387)	(314)
Amortization of bridge financing and other fees (Note 4)		—	—	97
Recovery on assets held for sale (Note 6)		—	—	(137)
Gain on disposal of property (Note 7)		(129)	—	—
Deferred income taxes (Note 8)		(288)	404	513
Changes in operating assets and liabilities:				
Accounts receivable		71	(290)	(22)
Material and supplies		(18)	(82)	(7)
Accounts payable and other		(191)	(9)	141
Other current assets		85	(30)	35
Other operating activities, net		411	214	168
Net cash provided by operating activities		6,965	6,667	6,971
Investing activities				
Property additions		(3,187)	(2,750)	(2,891)
Advance for acquisition and other transaction-related costs (Note 4)		—	—	(908)
Refund of advance for acquisition (Note 4)		—	—	886
Business acquisitions and combinations (Note 4)		(390)	—	—
Proceeds from assets held for sale (Note 6)		—	273	—
Proceeds from disposal of property (Note 7)		129	—	—
Other investing activities, net		(20)	(33)	40
Net cash used in investing activities		(3,468)	(2,510)	(2,873)
Financing activities				
Issuance of debt (Note 16)		2,554	1,899	403
Repayment of debt (Note 16)		(250)	(383)	(861)
Change in commercial paper, net (Note 16)		908	563	66
Bridge financing and other fees (Note 4)		—	—	(97)
Settlement of foreign exchange forward contracts on debt		38	79	(8)
Issuance of common shares for stock options exercised (Note 20)		49	61	52
Withholding taxes remitted on the net settlement of equity settled awards (Note 20)		(51)	(44)	(37)
Repurchase of common shares (Note 19)		(4,551)	(4,709)	(1,582)
Purchase of common shares for settlement of equity settled awards		(4)	(24)	(27)
Purchase of common shares by Share Trusts (Note 19)		(28)	(105)	(26)
Dividends paid		(2,071)	(2,004)	(1,740)
Net cash used in financing activities		(3,406)	(4,667)	(3,857)
Effect of foreign exchange fluctuations on cash, cash equivalents, restricted cash, and restricted cash equivalents		(1)	3	—
Net increase (decrease) in cash, cash equivalents, restricted cash, and restricted cash equivalents		90	(507)	241
Cash, cash equivalents, restricted cash, and restricted cash equivalents, beginning of year		834	1,341	1,100
Cash, cash equivalents, restricted cash, and restricted cash equivalents, end of year		\$ 924	\$ 834	\$ 1,341
Cash and cash equivalents, end of year		\$ 475	\$ 328	\$ 838
Restricted cash and cash equivalents, end of year		449	506	503
Cash, cash equivalents, restricted cash, and restricted cash equivalents, end of year		\$ 924	\$ 834	\$ 1,341
Supplemental cash flow information				
Interest paid		\$ (776)	\$ (542)	\$ (512)
Income taxes paid (Note 8)		\$ (1,197)	\$ (1,288)	\$ (759)

See accompanying notes to Consolidated Financial Statements.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Canadian National Railway Company, together with its wholly-owned subsidiaries, collectively "CN" or the "Company", is engaged in the rail and related transportation business. CN spans Canada and the United States of America (U.S.), connecting Canada's Eastern and Western coasts with the U.S. South. CN's freight revenues are derived from the movement of a diversified and balanced portfolio of goods, including petroleum and chemicals, grain and fertilizers, coal, metals and minerals, forest products, intermodal and automotive.

1 – Summary of significant accounting policies

Basis of presentation

These consolidated financial statements are expressed in Canadian dollars, except where otherwise indicated, and have been prepared in accordance with United States generally accepted accounting principles (GAAP) as codified in the Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC).

Principles of consolidation

These consolidated financial statements include the accounts of all subsidiaries and variable interest entities for which the Company is the primary beneficiary. The Company is the primary beneficiary of the Employee Benefit Plan Trusts ("Share Trusts") as the Company has the direct ability to make decisions regarding the Share Trusts' principal activities. The Company's investments in which it has significant influence are accounted for using the equity method and all other investments for which fair value is not readily determinable are accounted for at cost minus impairment, plus or minus observable price changes.

Use of estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of revenues, expenses, assets and liabilities, and the disclosure of contingent assets and liabilities at the date of the financial statements. On an ongoing basis, management reviews its estimates, including those related to goodwill, intangible assets, identified assets and liabilities acquired in business combinations, income taxes, depreciation, pensions and other postretirement benefits, personal injury and other claims, and environmental matters, based upon available information. Actual results could differ from these estimates.

Revenues

Nature of services

The Company's revenues consist of freight revenues and other revenues. Freight revenues include revenue from the movement of freight over rail and are derived from the following seven commodity groups:

- Petroleum and chemicals, which includes chemicals and plastics, refined petroleum products, crude and condensate, and sulfur;
- Metals and minerals, which includes energy materials, metals, minerals, and iron ore;
- Forest products, which includes lumber, pulp, paper, and panels;
- Coal, which includes coal and petroleum coke;
- Grain and fertilizers, which includes Canadian regulated grain, Canadian commercial grain, U.S. grain, potash and other fertilizers;
- Intermodal, which includes rail and trucking services for domestic and international traffic; and
- Automotive, which includes finished vehicles and auto parts.

Freight revenues also comprise revenues for optional services beyond the basic movement of freight including asset use, switching, storage, and other services.

Other revenues are derived from non-rail logistics services that support the Company's rail business including vessels and docks, transloading and distribution, automotive logistics, and freight forwarding and transportation management.

Revenue recognition

Revenues are recognized when control of promised services is transferred to customers in an amount that reflects the consideration the Company expects to be entitled to receive in exchange for those services.

The Company accounts for contracts with customers when it has approval and commitment from both parties, each party's rights have been identified, payment terms are defined, the contract has commercial substance and collection is probable. For contracts that involve multiple performance obligations, the Company allocates the transaction price to each performance obligation in the contract based on relative standalone selling prices and recognizes revenue when, or as, performance obligations in the contract are satisfied.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Revenues are presented net of taxes collected from customers and remitted to governmental authorities.

Freight revenues

Freight services are arranged through publicly-available tariffs or customer-specific agreements that establish the pricing, terms and conditions for freight services offered by the Company. For revenue recognition purposes, a contract for the movement of freight over rail exists when shipping instructions are sent by a customer and have been accepted by the Company in connection with the relevant tariff or customer-specific agreement.

Revenues for the movement of freight over rail are recognized over time due to the continuous transfer of control to the customer as freight moves from origin to destination. Progress towards completion of the performance obligation is measured based on the transit time of freight from origin to destination. The allocation of revenues between periods is based on the relative transit time in each period with expenses recorded as incurred. Revenues related to freight contracts that require the involvement of another rail carrier to move freight from origin to destination are reported on a net basis. Freight movements are completed over a short period of time and are generally completed before payment is due. Freight receivables are included in Accounts receivable on the Consolidated Balance Sheets.

The Company has no material contract assets associated with freight revenues.

Contract liabilities represent consideration received from customers for which the related performance obligation has not been satisfied. Contract liabilities are recognized into revenues when or as the related performance obligation is satisfied. The Company includes contract liabilities within Accounts payable and other and Other liabilities and deferred credits on the Consolidated Balance Sheets.

Revenues for optional services are recognized at a point in time or over time as performance obligations are satisfied, depending on the nature of the service.

Freight contracts may be subject to variable consideration in the form of volume-based incentives, rebates, or other items, which affect the transaction price. Variable consideration is recognized as revenue to the extent that it is probable that a significant reversal in the amount of cumulative revenue recognized will not occur. Variable consideration is accrued on the basis of management's best estimate of the expected amount, which is based on available historical, current and forecasted information.

Other revenues

Other revenues are recognized at a point in time or over time as performance obligations are satisfied, depending on the nature of the service.

Income taxes

The Company follows the asset and liability method of accounting for income taxes. Under the asset and liability method, the change in the net deferred income tax asset or liability is included in the computation of Net income or Other comprehensive income (loss). Deferred income tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which temporary differences are expected to be recovered or settled.

Earnings per share

Basic earnings per share is calculated using the weighted-average number of basic shares outstanding during the period. The weighted-average number of basic shares outstanding excludes shares held in the Share Trusts and includes vested equity settled stock-based compensation awards other than stock options. Diluted earnings per share is calculated using the weighted-average number of diluted shares outstanding during the period, applying the treasury stock method. The weighted-average number of diluted shares outstanding includes the dilutive effects of common shares issuable upon exercise of outstanding stock options and nonvested equity settled awards.

Foreign currency

All of the Company's foreign subsidiaries use the US dollar as their functional currency. Accordingly, the foreign subsidiaries' assets and liabilities are translated into Canadian dollars at the exchange rate in effect at the balance sheet date and the revenues and expenses are translated at the average exchange rates during the year. All adjustments resulting from the translation of the foreign operations are recorded in Other comprehensive income (loss).

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

The Company designates the US dollar-denominated debt of the parent company as a foreign currency hedge of its net investment in foreign operations. Accordingly, foreign exchange gains and losses, from the dates of designation, on the translation of the US dollar-denominated debt are included in Other comprehensive income (loss).

Cash and cash equivalents

Cash and cash equivalents include highly liquid investments purchased three months or less from maturity and are stated at cost plus accrued interest, which approximates fair value.

Restricted cash and cash equivalents

The Company has the option, under its bilateral letter of credit facility agreements with various banks, to pledge collateral in the form of cash and cash equivalents for a minimum term of one month, equal to at least the face value of the letters of credit issued. Restricted cash and cash equivalents include highly liquid investments purchased three months or less from maturity and are stated at cost plus accrued interest, which approximates fair value.

Accounts receivable

Accounts receivable are recorded at cost net of billing adjustments and an allowance for credit losses. The allowance for credit losses is based on relevant information about past events, including historical experience, current conditions, and reasonable and supportable forecasts that affect the collectibility of the reported amount. When a receivable is deemed uncollectible, it is written off against the allowance for credit losses. Subsequent recoveries of amounts previously written off are credited to bad debt expense in Other expense in the Consolidated Statements of Income.

Material and supplies

Material and supplies, which consist mainly of rail, ties, and other items for construction and maintenance of property and equipment, as well as diesel fuel, are measured at weighted-average cost.

Assets held for sale

Assets that are classified as held for sale are measured at the lower of their carrying amount or fair value less expected selling costs ("estimated selling price") with a loss recognized to the extent that the carrying amount exceeds the estimated selling price. The classification is applicable at the date upon which the sale of assets is probable, and the assets are available for immediate sale in their present condition. The transfer of the assets must also be expected to qualify for recognition as a completed sale within the year following the date of classification.

Assets once classified as held for sale, are not subject to depreciation or amortization and both the assets and any liabilities directly associated with the assets held for sale are classified as current in the Balance Sheets.

Subsequent changes to the estimated selling price of assets held for sale are recorded as recoveries or losses to the Consolidated Statements of Income wherein the recognition of subsequent gains is limited to the cumulative loss previously recognized.

Properties

Capitalization of costs

The Company's railroad operations are highly capital intensive. The Company's properties mainly consist of homogeneous or network-type assets such as rail, ties, ballast and other structures, which form the Company's Track and roadway properties, and Rolling stock. The Company's capital expenditures are for the replacement of existing assets and for the purchase or construction of new assets to enhance operations or provide new service offerings to customers. A large portion of the Company's capital expenditures are for self-constructed properties, including the replacement of existing track and roadway assets and track line expansion, as well as major overhauls and large refurbishments of rolling stock.

Expenditures are capitalized if they extend the life of the asset or provide future benefits such as increased revenue-generating capacity, functionality or service capacity. The Company has a process in place to determine whether or not costs qualify for capitalization, which requires judgment. For Track and roadway properties, the Company establishes basic capital programs to replace or upgrade the track infrastructure assets which are capitalized if they meet the capitalization criteria.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

In addition, for Track and roadway properties, expenditures that meet the minimum level of activity as defined by the Company are also capitalized as follows:

- *grading*: installation of road bed, retaining walls, and drainage structures;
- *rail and related track material*: installation of 39 or more continuous feet of rail;
- *ties*: installation of five or more ties per 39 feet; and
- *ballast*: installation of 171 cubic yards of ballast per mile.

For purchased assets, the Company capitalizes all costs necessary to make the assets ready for their intended use. For self-constructed properties, expenditures include direct material, labor, and contracted services, as well as other allocated costs. These allocated costs include, but are not limited to, project supervision, fringe benefits, maintenance on equipment used on projects as well as the cost of small tools and supplies. The Company reviews and adjusts its allocations, as required, to reflect the actual costs incurred each year.

For the rail asset, the Company capitalizes the costs of rail grinding which consists of restoring and improving the rail profile and removing irregularities from worn rail to extend the service life. The service life of the rail asset is increased incrementally as rail grinding is performed thereon, and as such, the costs incurred are capitalized given that the activity extends the service life of the rail asset beyond its original or current condition as additional gross tons can be carried over the rail for its remaining service life.

For the ballast asset, the Company engages in shoulder ballast undercutting that consists of removing some or all of the ballast, which has deteriorated over its service life, and replacing it with new ballast. When ballast is installed as part of a shoulder ballast undercutting project, it represents the addition of a new asset and not the repair or maintenance of an existing asset. As such, the Company capitalizes expenditures related to shoulder ballast undercutting given that an existing asset is retired and replaced with a new asset. Under the group method of accounting for properties, the deteriorated ballast is retired at its historical cost.

Costs of deconstruction and removal of replaced assets, referred to herein as dismantling costs, are distinguished from installation costs for self-constructed properties based on the nature of the related activity. For Track and roadway properties, employees concurrently perform dismantling and installation of new track and roadway assets and, as such, the Company estimates the amount of labor and other costs that are related to dismantling. The Company determines dismantling costs based on an analysis of the track and roadway installation process.

Expenditures relating to the Company's properties that do not meet the Company's capitalization criteria are expensed as incurred. For Track and roadway properties, such expenditures include but are not limited to spot tie replacement, spot or broken rail replacement, physical track inspection for detection of rail defects and minor track corrections, and other general maintenance of track infrastructure.

Depreciation

Properties are carried at cost less accumulated depreciation including asset impairment write-downs. The cost of properties, including those under finance leases, net of asset impairment write-downs, is depreciated on a straight-line basis over their estimated service lives, measured in years, except for rail and ballast whose service lives are measured in millions of gross tons. The Company follows the group method of depreciation whereby a single composite depreciation rate is applied to the gross investment in a class of similar assets, despite small differences in the service life or salvage value of individual property units within the same asset class. The Company uses approximately 40 different depreciable asset classes.

For all depreciable asset classes, the depreciation rate is based on the estimated service lives of the assets. Assessing the reasonableness of the estimated service lives of properties requires judgment and is based on currently available information, including periodic depreciation studies conducted by the Company. The Company's U.S. properties are subject to comprehensive depreciation studies as required by the Surface Transportation Board (STB) and are conducted by external experts. Depreciation studies for Canadian properties are not required by regulation and are conducted internally. Studies are performed on specific asset groups on a periodic basis. Changes in the estimated service lives of the assets and their related composite depreciation rates are implemented prospectively.

The service life of the rail asset is based on expected future usage of the rail in its existing condition, determined using railroad industry research and testing (based on rail characteristics such as weight, curvature and metallurgy), factoring in the rail asset's usage to date. The annual composite depreciation rate for the rail asset is determined by dividing the estimated annual number of gross tons carried over the rail by the estimated service life of the rail measured in millions of gross tons. The Company amortizes the cost of rail grinding over the remaining life of the rail asset, which includes the incremental life extension generated by rail grinding.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Given the nature of the railroad and the composition of its network which is made up of homogeneous long-lived assets, it is impractical to maintain records of specific properties at their lowest unit of property.

Retirements of assets occur through the replacement of an asset in the normal course of business, the sale of an asset or the abandonment of a section of track. For retirements in the normal course of business, generally the life of the retired asset is within a reasonable range of the expected useful life, as determined in the depreciation studies, and, as such, no gain or loss is recognized under the group method. The asset's cost is removed from the asset account and the difference between its estimated historical cost and estimated related accumulated depreciation (net of salvage proceeds and dismantling costs), if any, is recorded as an adjustment to accumulated depreciation and no gain or loss is recognized. The estimated historical cost of the retired asset is estimated by using deflation factors or indices that closely correlate to the properties comprising the asset classes in combination with the estimated age of the retired asset using a first-in, first-out approach, and applying it to the replacement value of the asset.

In each depreciation study, an estimate is made of any excess or deficiency in accumulated depreciation for all corresponding asset classes to ensure that the depreciation rates remain appropriate. The excess or deficiency in accumulated depreciation is amortized over the remaining life of the asset class.

For retirements of depreciable properties that do not occur in the normal course of business, the historical cost, net of salvage proceeds, is recorded as a gain or loss in income. A retirement is considered not to be in the normal course of business if it meets the following criteria: (i) it is unusual, (ii) it is significant in amount, and (iii) it varies significantly from the retirement pattern identified through depreciation studies. A gain or loss is recognized in Other income for the sale of land or disposal of assets that are not part of railroad operations.

Government assistance

By analogy to the grant model of accounting within International Accounting Standards (IAS) 20, Accounting for Government Grants and Disclosure of Government Assistance, the Company records government assistance from various levels of Canadian and U.S. governments and government agencies when the conditions of their receipt are complied with and there is reasonable assurance that the assistance will be received.

The Company receives government assistance typically in the form of cash primarily for the purpose of track infrastructure assets and public safety improvements to track and roadway properties. The government assistance related to properties has conditions of how the assistance is to be spent; such as the Company purchasing or self-constructing assets to improve CN assets and under limited transactions would require the Company to reimburse the assistance if certain conditions are not adhered to. The period for which the assistance is received coincides with the timing to complete the purchase or self-construction.

The Company accounts for government assistance received or receivable related to CN's property assets as a reduction from the cost of the assets in the Consolidated Balance Sheets within Properties and depreciated over the same service life of the related assets in Depreciation and amortization in the Consolidated Statements of Income.

Leases

The Company engages in short and long-term leases for rolling stock including locomotives and freight cars, equipment, real estate and service contracts that contain embedded leases. The Company determines whether or not a contract contains a lease at inception. Leases with a term of twelve months or less are not recorded by the Company on the Consolidated Balance Sheets.

Finance and operating lease right-of-use assets and liabilities are recognized based on the present value of the future lease payments over the lease term at the commencement date. Where the implicit interest rate is not determinable from the lease, the Company uses internal incremental borrowing rates by tenor and currency to initially measure leases in excess of twelve months on the Consolidated Balance Sheets. Operating lease expense is recognized on a straight-line basis over the lease term.

The Company's lease contracts may contain termination, renewal, and/or purchase options, residual value guarantees, or a combination thereof, all of which are evaluated by the Company on a quarterly basis. The majority of renewal options available extend the lease term from one to five years. The Company accounts for such contract options when the Company is reasonably certain that it will exercise one of these options.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Lease contracts may contain lease and non-lease components that the Company generally accounts for separately, with the exception of the freight car asset category for which the Company has elected to not separate the lease and non-lease components.

Intangible assets

Intangible assets consist mainly of customer contracts and relationships acquired through business acquisitions. Intangible assets are generally amortized on a straight-line basis over their expected useful lives, ranging from 20 to 50 years. If a change in the estimated useful life of an intangible asset is determined, amortization is adjusted prospectively.

With respect to impairment, the Company tests the recoverability of its intangible assets held and used whenever events or changes in circumstances indicate that the carrying amount may not be recoverable, based on future undiscounted cash flows. If the carrying amount of an intangible asset is not recoverable and exceeds the fair value, an impairment loss is recognized for the amount by which the carrying amount of the asset exceeds the fair value.

Goodwill

The Company recognizes goodwill as the excess of the purchase price over the fair value of identifiable net assets acquired in business combinations. Goodwill is assigned to the reporting units that are expected to benefit from the business acquisition. The carrying amount of goodwill is not amortized; instead, it is assessed for impairment annually as of the first day of the fiscal fourth quarter or more frequently if events or changes in circumstances indicate that it is more likely than not that the fair value of a reporting unit is less than the carrying amount.

With respect to impairment, the Company may first assess certain qualitative factors to determine if it is more likely than not that the fair value of a reporting unit is less than its carrying amount, including goodwill, or proceed directly to a quantitative goodwill impairment test. Qualitative factors include but are not limited to, economic, market and industry conditions, cost factors and overall financial performance of the reporting unit, and events such as changes in management or customers. If the qualitative assessment indicates that it is more likely than not that the fair value of a reporting unit is less than its carrying amount, the quantitative impairment test must be performed. The quantitative impairment test is performed by comparing the fair value of a reporting unit with its carrying amount, including goodwill, and an impairment loss is recognized for the amount by which the carrying amount exceeds the reporting unit's fair value, up to the value of goodwill. The Company defines the fair value of a reporting unit as the price that would be received to sell the reporting unit as a whole in an orderly transaction between market participants as of the impairment date. To determine the fair value of a reporting unit, the Company uses the discounted cash flow method using the pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset or group of assets.

Accounts receivable securitization

Based on the structure of its accounts receivable securitization program, the Company accounts for the proceeds received as secured borrowings.

Pensions

Pension costs are determined using actuarial methods. Net periodic benefit cost (income) includes the current service cost of pension benefits provided in exchange for employee service rendered during the year, which is recorded in Labor and fringe benefits expense. Net periodic benefit cost (income) also includes the following, which are recorded in Other components of net periodic benefit income (cost):

- the interest cost of pension obligations;
- the expected long-term return on pension fund assets;
- the amortization of prior service costs and amendments over the expected average remaining service life of the employee group covered by the plans;
- the Company uses a market related value to calculate net periodic benefit cost (income) (see *Note 2 – Change in accounting policy for additional information*) and
- the amortization of cumulative net actuarial gains and losses in excess of 10% of the greater of the beginning of year balances of the projected benefit obligation or market-related value of plan assets, over the expected average remaining service life of the employee group covered by the plans.

The pension plans are funded through contributions determined in accordance with the projected unit credit actuarial cost method.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Postretirement benefits other than pensions

The Company accrues the cost of postretirement benefits other than pensions using actuarial methods. These benefits, which are funded as they become due, include life insurance programs, medical benefits and, for a closed group of employees, free rail travel benefits.

The Company amortizes the cumulative net actuarial gains and losses in excess of 10% of the projected benefit obligation at the beginning of the year, over the expected average remaining service life of the employee group covered by the plan.

Additional paid-in capital

Additional paid-in capital includes the stock-based compensation expense on equity settled awards and other items relating to equity settled awards. Upon the exercise of stock options, the stock-based compensation expense related to those awards is reclassified from Additional paid-in capital to Common shares. Upon settlement of all other equity settled awards, the Company reclassifies from Additional paid-in capital to Retained Earnings the stock-based compensation expense and other items related to equity settled awards, up to the amount of the settlement cost. The excess, if any, of the settlement cost over the stock-based compensation expense is recorded in Retained Earnings.

Stock-based compensation

For equity settled awards, stock-based compensation costs are accrued over the requisite service period based on the fair value of the awards at the grant date. The grant date fair value of performance share unit (PSU) awards is dependent on the type of PSU award. The grant date fair value of PSU-ROIC awards is determined using a lattice-based model incorporating a minimum share price condition and the grant date fair value of PSU-TSR awards is determined using a Monte Carlo simulation model. The grant date fair value of restricted share unit (RSU) awards and of equity settled deferred share unit (DSU) awards is determined using the stock price at the grant date. The grant date fair value of stock option awards is determined using the Black-Scholes option-pricing model. For cash settled awards, stock-based compensation costs are accrued over the requisite service period based on the fair value determined at each period-end. The fair value of cash settled DSU awards is determined using their intrinsic value.

Personal injury and other claims

In Canada, the Company accounts for costs related to employee work-related injuries based on actuarially developed estimates on a discounted basis of the ultimate cost associated with such injuries, including compensation, health care and third-party administration costs. In the U.S., the Company accrues the expected cost for personal injury, property damage and occupational disease claims, based on actuarial estimates of their ultimate cost on an undiscounted basis. For all other legal actions in Canada and the U.S., the Company maintains, and regularly updates on a case-by-case basis, provisions for such items when the expected loss is both probable and can be reasonably estimated based on currently available information.

Environmental expenditures

Environmental expenditures that relate to current operations, or to an existing condition caused by past operations, are expensed as incurred. Environmental expenditures that provide a future benefit are capitalized. Environmental liabilities are recorded when environmental assessments occur, remedial efforts are probable, and when the costs, based on a specific plan of action in terms of the technology to be used and the extent of the corrective action required, can be reasonably estimated. The Company accrues its allocable share of liability taking into account the Company's alleged responsibility, the number of potentially responsible parties and their ability to pay their respective shares of the liability. Recoveries of environmental remediation costs from other parties are recorded as assets when their receipt is deemed probable.

Derivative financial instruments

The Company uses derivative financial instruments from time to time in the management of its interest rate and foreign currency exposures. Derivative instruments are recorded on the balance sheet at fair value. The changes in fair value of derivative instruments not designated or not qualified as a hedge are recorded in Net income in the current period.

2 – Change in accounting policy

Change in accounting policy for determining net periodic pension cost (income)

Effective January 1, 2022, CN elected to change its accounting methodology for determining the market-related value of assets for the Company's defined benefit pension plans. The new accounting method changed the calculation of market-related value of pension plan assets used to determine net periodic benefit cost but had no impact on the annual funded status of the plans. The Company's previous methodology calculated market-related value for pensions whereby realized and unrealized gains/losses and appreciation/depreciation in the value of the investments were recognized over a period of five years. The Company's new methodology applies a corridor approach so that the market-

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

related value does not result in a value that deviates excessively from its fair value. Specifically, the market-related value will not exceed 110% or be less than 90% of the fair value. This change established a corridor approach whereby the amount causing the market-related value to be outside of the 10% corridor is recognized immediately in the market-related value of assets and will not be subject to the five-year period of recognition. There is no change in the recognition approach for investment income.

CN considers the use of a calculated value with a corridor approach preferable to the previous calculated value approach as it results in a more current reflection of impacts of changes in value of these plan assets in the determination of net periodic benefit cost. The new accounting method to calculate the market-related value for pensions also aligns with the prevailing guidance issued by the Office of the Superintendent of Financial Institutions (OSFI) for the preparation of actuarial valuations for funding purposes for all registered Canadian defined benefit pension plans, whereby the Company adopted and applied the updated OSFI guidance starting with the December 31, 2021 funding valuations that were filed during the second quarter of 2022.

The change in accounting method was applied retrospectively to all periods presented within CN's financial statements. The change did not impact Operating income or Net cash provided by operating activities but did impact the previously reported portion of Other components of net periodic benefit cost (income) for defined benefit pension plans along with related consolidated income items such as Net income and Earnings per share. Other impacts included related changes to previously reported consolidated Other comprehensive income (loss), Retained earnings, Accumulated other comprehensive income (loss), and associated line items within the determination of Net cash provided (used) by operating activities. *Note 2 – Change in accounting policy* to the Company's 2022 Annual Consolidated Financial Statements details the impact of this change on previously reported amounts.

3 – Recent accounting pronouncements

The following recent Accounting Standards Updates (ASU) issued by the Financial Accounting Standards Board (FASB) has an effective date after December 31, 2023 and has not been adopted by the Company:

ASU 2023-07 Segment reporting (Topic 280): Improvements to reportable segment disclosures

The ASU will improve financial disclosures about a public entity's reportable segments and address requests from investors for additional and more detailed information regarding reportable segment expenses. The main amendments in the ASU require public entities, including those that have a single reportable segment, to disclose on an annual and interim basis the significant segment expenses provided to the chief operating decision maker (CODM), disclose the title/position of the CODM and how the segment expenses information is used in the decision making process.

The ASU is effective for annual periods beginning after December 15, 2023. Early adoption is permitted.

The adoption of the ASU will have an impact on the Company's Consolidated Financial Statements disclosures. The Company will include the relevant disclosure within the 2024 Annual Consolidated Financial Statements and 2025 Interim Financial Statements.

ASU 2023-09 – Income Taxes (Topic 740): Improvements to income tax disclosures

The ASU amends the rules on income tax disclosures by modifying or eliminating certain existing income tax disclosure requirements in addition to establishing new requirements. The amendments address investor requests for more transparency about income taxes, including jurisdictional information, by requiring consistent categories and greater disaggregation of information. The ASU's two primary amendments relate to the rate reconciliation and income taxes paid annual disclosures.

Reconciling items presented in the rate reconciliation will be in dollar amounts and percentages, and will be disaggregated into specified categories with certain reconciling items further broken out by nature and/or jurisdiction using a 5% threshold of domestic federal taxes. Income taxes paid will be disaggregated between federal, provincial/territorial, and foreign taxing jurisdictions using a 5% threshold of total income taxes paid net of refunds received.

The ASU is effective for annual periods beginning after December 15, 2024. Early adoption is permitted for annual financial statements that have not yet been issued or made available for issuance. The ASU should be applied prospectively. Retrospective application is permitted.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

The adoption of the ASU will have an impact on the Company's Consolidated Financial Statements disclosures. The required disclosure changes will be reflected in the Company's Consolidated Financial Statements when the ASU is adopted.

The following Accounting Standards Updates (ASU) issued by the Financial Accounting Standards Board (FASB) have been adopted by the Company:

ASU 2020-04 and ASU 2022-06 Reference rate reform (Topic 848): Facilitation of the effects of reference rate reform on financial reporting and related amendments

USD London Interbank Offered Rate (LIBOR) and Canadian Dollar Offered Rate (CDOR) are benchmark interest rates referenced in a variety of agreements. The publication of certain LIBOR and CDOR rates were discontinued in January 2022 and May 2021, respectively. The remaining LIBOR rates were discontinued on June 30, 2023 and the remaining CDOR rates are expected to be discontinued on June 30, 2024. The recommended alternative reference rates for LIBOR and CDOR are the Secured Overnight Financing Rate (SOFR) and Canadian Overnight Repo Rate Average (CORRA), respectively.

The ASU provides optional expedients and exceptions for applying generally accepted accounting principles to transactions affected by reference rate reform if certain criteria are met. These transactions include contract modifications, hedging relationships, and sale or transfer of debt securities classified as held-to-maturity. The ASU was effective starting on March 12, 2020, and is available to be adopted on a prospective basis no later than December 31, 2024, following the amendments of ASU 2022-06.

The Company was eligible and has elected to use the optional expedient provided by the ASU which allowed the amendment to be accounted for as a non substantial modification of an existing debt. As a result, the amendment did not have a significant impact to the Company's Consolidated Financial Statements and related disclosures. See *Note 16 - Debt* for additional information on reference rate reform with respect to the non-revolving credit facility, revolving credit facilities, equipment loans and accounts receivable securitization program.

Other recently issued ASUs required to be applied on or after December 31, 2023 have been evaluated by the Company and are not expected to have a significant impact on the Company's Consolidated Financial Statements.

4 – Business acquisitions and combinations

2023

Iowa Northern Railway Company

On December 6, 2023, the Company acquired the shares of the Iowa Northern Railway Company (IANR), a Class III short-line railroad that owns and leases approximately 175 route miles in northeast Iowa that are connected to CN's U.S. rail network. CN paid US\$230 million (\$312 million), including transaction costs to date. IANR serves upper Midwest agricultural and industrial markets covering many goods, including biofuels and grain. This transaction represents a meaningful opportunity to support the growth of local business by creating single-line service to North American destinations, while preserving access to existing carrier options.

The shares of IANR were deposited into an independent voting trust while the U.S Surface Transportation Board (STB) considers the Company's application to acquire control of IANR. During the trust period, IANR will continue to be operated under its current management and the Company cannot exercise day-to-day control. As a result, the Company recorded its investment in IANR at its acquisition cost under the equity method of accounting. Subject to final approval by the STB, the Company would obtain control of IANR and would account for the acquisition as a business combination under the acquisition method of accounting.

On the acquisition date of December 6, 2023, immediately prior to the acquisition, there was a basis difference of \$236 million between the consideration paid to acquire IANR and the underlying carrying value of the net assets of IANR. The basis difference related to depreciable properties and if any, intangible assets with definite lives will be amortized over the related assets' remaining useful lives. The remainder of the basis difference, relating to land, intangible assets with indefinite lives if any, and equity method goodwill, would not be amortized and would be carried at cost subject to an assessment for impairment. The estimated fair value of IANR's underlying net assets is preliminary based on information available to the Company to date and subject to change over the measurement period, which may be up to twelve months from the acquisition date.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

The Company has not provided summarized financial information for IANR, on its historical cost basis, for the period December 6, 2023 to December 31, 2023, and as at December 31, 2023 as it was not material.

Cape Breton & Central Nova Scotia Railway

On November 1, 2023, the Company acquired from Genesee & Wyoming Inc. a stake in the Cape Breton & Central Nova Scotia Railway (CBNS), a Class III short-line railroad that owns approximately 150 route miles. CN paid \$78 million in cash, net of cash acquired and including working capital adjustments. The acquisition was accounted for as a business combination. As a result, the Company's Consolidated Balance Sheet includes the net assets of CBNS as of November 1, 2023, which were comprised of \$101 million in fair value of properties mostly track and roadway assets, partly offset by \$18 million in deferred tax liabilities. The remaining net assets were comprised of current assets and liabilities which were individually insignificant and there were no identifiable intangible assets. No goodwill was recognized. The fair value of CBNS's underlying net assets has been estimated on a preliminary basis and may be subject to change as additional information becomes available over the next twelve months. The Company has not provided pro forma information related to prior periods as it was not material.

2021

Terminated CN Kansas City Southern (KCS) merger agreement

On September 15, 2021, KCS notified CN that it terminated the previously announced May 21, 2021 definitive merger agreement (the "CN Merger Agreement") under which CN would have acquired KCS.

On August 31, 2021, the STB rejected the joint motion by CN and KCS to approve a proposed voting trust agreement. On September 15, 2021, KCS and its Board of Directors announced that the revised acquisition proposal of September 12, 2021 from Canadian Pacific Railway Limited (CP) constituted a "Company Superior Proposal" as defined in the CN Merger Agreement. Consequently, KCS entered into a waiver letter agreement with CN under which KCS agreed to terminate the CN Merger Agreement in order to enter into a merger agreement with CP. As a result, CN received from KCS a merger termination fee of US\$700 million (\$886 million), recorded in Merger termination fee within the Company's Consolidated Statements of Income and reflected in Operating activities within the Consolidated Statements of Cash Flows. In addition, KCS also refunded Brooklyn US Holdings, Inc. ("Holdco"), a wholly owned subsidiary of the Company, US\$700 million (\$886 million) that CN had previously paid as an advance to KCS of US\$700 million (\$845 million) in connection with KCS's payment of the termination fee to CP under KCS's original merger agreement with CP that was terminated on May 21, 2021. The refund received in the third quarter of 2021 was recorded in Transaction-related costs within the Consolidated Statements of Income and reflected in Investing activities within the Consolidated Statements of Cash flows. The US\$700 million (\$845 million) advance was recorded in Advance to KCS and other transaction costs within the Consolidated Balance Sheets in the second quarter of 2021 and was expensed to Transaction-related costs within the Consolidated Statements of Income in the third quarter of 2021. This advance, along with \$63 million of transaction-related costs paid in the second quarter of 2021, was reflected in Investing activities within the Consolidated Statements of Cash flows.

The Company incurred \$84 million of transaction-related costs for the year ended December 31, 2021 recorded in Transaction-related costs within the Consolidated Statements of Income. This included \$125 million of transaction-related costs, consisting of a \$76 million expense for costs previously capitalized to Advance to KCS and other transaction costs within the Consolidated Balance Sheets in the second quarter of 2021 in accordance with the expected application of equity method accounting and \$49 million of additional transaction-related costs incurred in the third quarter of 2021; partially offset by \$41 million of income generated as a result of the applicable foreign exchange rates prevailing at the time of payment of the US dollar denominated advance to KCS and receipt of the related refund.

The Company also paid \$97 million of bridge financing and other fees which were recorded in Interest expense within the Consolidated Statements of Income for the year ended December 31, 2021.

For the year ended December 31, 2021, after accounting for all direct and incremental expenses as well as income generated from the merger termination fee, CN recorded additional income of \$705 million (\$616 million after-tax), as a result of its strategic decision to bid for KCS.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

5 – Revenues

<i>In millions</i>	<i>Year ended December 31,</i>	2023	2022	2021
Freight revenues				
Petroleum and chemicals	\$	3,195	\$ 3,229	\$ 2,816
Metals and minerals		2,048	1,911	1,548
Forest products		1,943	2,006	1,740
Coal		1,017	937	618
Grain and fertilizers		3,265	2,783	2,475
Intermodal		3,823	4,906	4,115
Automotive		945	797	576
Total freight revenues		16,236	16,569	13,888
Other revenues		592	538	589
Total revenues ^{(1) (2)}	\$	16,828	\$ 17,107	\$ 14,477

(1) As at December 31, 2023, the Company had remaining performance obligations related to freight in-transit, for which revenues of \$88 million (2022 - \$103 million) are expected to be recognized in the next period.

(2) See Note 24 – *Segmented information* for the disaggregation of revenues by geographic area.

Contract liabilities

<i>In millions</i>	2023	2022
Beginning of year	\$ 28	\$ 74
Revenue recognized included in the beginning balance	(12)	(74)
Increase due to consideration received, net of revenue recognized	79	28
End of year	\$ 95	\$ 28
Current portion - end of year	\$ 13	\$ 12

6 – Assets held for sale

In the first quarter of 2021, CN entered into an agreement with a short line operator, for the sale of non-core lines in Wisconsin, Michigan and Ontario representing 850 miles that were classified as assets held for sale plus an additional 50 miles of track and roadway assets, resulting in a \$137 million recovery (\$102 million after-tax) of the \$486 million loss (\$363 million after-tax) recorded in the second quarter of 2020 to adjust the carrying amount of the track and roadway assets to their then estimated net selling price.

In the fourth quarter of 2021, the STB approved the Company's agreement with the short line operator without condition and the transaction closed in the first quarter of 2022 for proceeds of \$273 million.

7 – Other income (loss)

<i>In millions</i>	<i>Year ended December 31,</i>	2023	2022	2021
Gain on disposal of property	\$	129	\$ –	\$ –
Gain on disposal of land		7	15	23
Gain (loss) on foreign currency ⁽¹⁾		7	(7)	2
Gain (loss) on equity investment with readily determinable fair values		–	(29)	20
Other		(9)	(6)	(2)
Total other income (loss)	\$	134	\$ (27)	\$ 43

(1) Includes foreign exchange gains and losses related to foreign exchange forward contracts and the re-measurement of foreign currency denominated monetary assets and liabilities. See Note 23 – *Financial instruments* for additional information.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Disposal of property

On December 13, 2023, the Company completed the sale of a portion of land within the Bala Subdivision located in Markham and Richmond Hill, Ontario, Canada for cash proceeds of \$129 million which resulted in a gain of \$129 million (\$112 million after tax) as the carrying amount of the land was nominal.

8 – Income taxes

The Company's consolidated effective income tax rate differs from the Canadian, or domestic, statutory federal tax rate. The effective tax rate is affected by recurring items in provincial, U.S. federal, state and other foreign jurisdictions, such as tax rates and the proportion of income earned in those jurisdictions. The effective tax rate is also affected by discrete items such as income tax rate enactments, and lower corporate income tax rates on capital dispositions and other transactions that may occur in any given year.

In the fourth quarter of 2023, the Company received a ruling from taxation authorities in a non-U.S. foreign jurisdiction in connection with prior taxation years. Consistent with the ruling, and effective as of January 1, 2021, the Company has foregone favorable tax deductions of a permanent nature on certain income generated from intercompany arrangements. This resulted in the Company generating tax-deductible goodwill approximating the value of the foregone tax deductions, which is available to be amortized over a period of up to ten years.

As a result, the Company recorded a net deferred income tax recovery of \$682 million, comprised of a \$767 million deferred income tax recovery related to the tax-deductible goodwill initially generated as of January 1, 2021, partly offset by a \$85 million income tax expense related to the foregone tax deduction (\$31 million for 2023 and \$54 million for prior years) which was initially recorded in current taxes and was then reclassified to deferred taxes following the amortization of the tax-deductible goodwill for those years. As a result, the remaining deferred income tax asset as at December 31, 2023 was \$682 million, representing the tax impact of unamortized tax-deductible goodwill of \$5.8 billion.

Income tax expense

<i>In millions</i>	<i>Year ended December 31,</i>	2023	2022	2021
Canadian statutory federal tax rate		15%	15%	15%
Income tax expense at the Canadian statutory federal tax rate	\$	973	\$ 1,014	\$ 951
Income tax expense resulting from:				
Provincial and foreign income taxes ⁽¹⁾		633	657	617
Tax-deductible goodwill and related impacts ⁽²⁾		(713)	—	—
Non-taxable portion of merger termination fee ⁽³⁾		—	—	(116)
Other ⁽⁴⁾		(30)	(26)	(9)
Income tax expense	\$	863	\$ 1,645	\$ 1,443
Net cash payments for income taxes	\$	1,197	\$ 1,288	\$ 759

(1) Includes the impact of Canadian provincial taxes, U.S. federal and state taxes, and other foreign taxes.

(2) Relates to the impacts of recognizing the \$767 million deferred income tax recovery partly offset by a \$54 million income tax expense on the foregone tax deductions related to prior taxation years.

(3) Relates to the permanent difference arising from applying a lower inclusion tax rate on the \$886 million of income generated from the merger termination fee received from KCS (see Note 4 – Business acquisitions and combinations).

(4) Includes adjustments relating to the filing or resolution of matters pertaining to prior years' income taxes, including net recognized tax benefits, excess tax benefits resulting from the settlement of equity settled awards under the Company's stock-based compensation plans, and other items.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Tax information on a domestic and foreign basis

<i>In millions</i>	<i>Year ended December 31,</i>	2023	2022	2021
Income before income taxes				
Domestic	\$	4,936	\$ 4,835	\$ 4,726
Foreign		1,552	1,928	1,616
Total income before income taxes	\$	6,488	\$ 6,763	\$ 6,342
Current income tax expense				
Domestic	\$	896	\$ 956	\$ 763
Foreign		255	285	167
Total current income tax expense	\$	1,151	\$ 1,241	\$ 930
Deferred income tax expense (recovery)				
Domestic	\$	360	\$ 298	\$ 360
Foreign		(648)	106	153
Total deferred income tax expense (recovery)	\$	(288)	\$ 404	\$ 513

Net deferred income taxes

<i>In millions</i>	<i>As at December 31,</i>	2023	2022
Deferred income tax assets (liabilities)			
Deferred income tax assets ⁽¹⁾	\$	682	\$ —
Deferred income tax liabilities		(10,066)	(9,796)
Net deferred income taxes	\$	(9,384)	\$ (9,796)
Deferred income tax assets			
Tax-deductible goodwill ⁽¹⁾	\$	682	\$ —
Net operating losses and tax credit carryforwards ⁽²⁾		130	46
Lease liabilities		126	132
Pension liability		95	93
Personal Injury & legal claims		59	61
Other postretirement benefits liability		38	38
Compensation reserves		37	45
Unrealized foreign exchange losses		—	61
Other		56	53
Total deferred income tax assets	\$	1,223	\$ 529
Deferred income tax liabilities			
Properties	\$	(9,560)	\$ (9,296)
Pension asset		(822)	(794)
Operating lease right-of-use assets		(106)	(117)
Other		(119)	(118)
Total deferred income tax liabilities	\$	(10,607)	\$ (10,325)
Net deferred income taxes	\$	(9,384)	\$ (9,796)
Net deferred income taxes by jurisdiction			
Domestic	\$	(5,950)	\$ (5,614)
Foreign U.S.		(4,116)	(4,182)
Foreign non-U.S. ⁽¹⁾		682	—
Net deferred income taxes	\$	(9,384)	\$ (9,796)

(1) As at December 31, 2023, the Company had tax-deductible goodwill of \$5.8 billion remaining to be amortized which will expire in 2030.

(2) As at December 31, 2023, the Company had net interest expense deduction carryforwards of \$480 million which are available to offset future U.S. federal and state taxable income over an indefinite period. In addition, the Company had net operating loss carryforwards of \$200 million for U.S. state tax purposes which are available to offset future U.S. state taxable income and are expiring between 2024 and 2042.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

On an annual basis, the Company assesses the need to establish a valuation allowance for its deferred income tax assets, and if it is deemed more likely than not that its deferred income tax assets will not be realized, a valuation allowance is recorded. The ultimate realization of deferred income tax assets is dependent upon the generation of future taxable income, of the necessary character, during the periods in which those temporary differences become deductible. Management considers the scheduled reversals of deferred income tax liabilities, the available carryback and carryforward periods, and projected future taxable income in making this assessment. As at December 31, 2023, in order to fully realize all of the deferred income tax assets excluding the tax-deductible goodwill, the Company will need to generate future taxable income of approximately \$1.8 billion, and, based upon the level of historical taxable income, projections of future taxable income of the necessary character over the periods in which the deferred income tax assets are deductible, and the reversal of taxable temporary differences, management believes, following an assessment of the current economic environment, it is more likely than not that the Company will realize the benefits of these deductible differences. Management believes it is more likely than not that CN will fully realize the benefits of the remaining \$5.8 billion unamortized tax-deductible goodwill because under the current tax laws the Company has the ability and intent to maintain the necessary intercompany arrangements that will generate sufficient future taxable income of the appropriate character in the non-U.S. foreign jurisdiction, and to fully utilize the tax-deductible goodwill. As at December 31, 2023, the Company has not recognized a deferred income tax asset of \$217 million (2022 - \$196 million) on the unrealized foreign exchange loss recorded in Accumulated other comprehensive loss relating to its net investment in U.S. subsidiaries, as the Company does not expect this temporary difference to reverse in the foreseeable future.

Unrecognized tax benefits

<i>In millions</i>	<i>Year ended December 31,</i>	2023	2022	2021
Gross unrecognized tax benefits at beginning of year	\$	52	\$ 64	\$ 92
Increases for:				
Tax positions related to the current year		4	3	4
Decrease for:				
Tax positions related to prior years		(8)	(10)	(32)
Settlements		(2)	(5)	—
Gross unrecognized tax benefits at end of year		46	52	64
Adjustments to reflect tax treaties and other arrangements		(14)	(14)	(17)
Net unrecognized tax benefits at end of year	\$	32	\$ 38	\$ 47

As at December 31, 2023, the total amount of gross unrecognized tax benefits was \$46 million, before considering tax treaties and other arrangements between taxation authorities. The amount of net unrecognized tax benefits as at December 31, 2023 was \$32 million. If recognized, \$18 million of the net unrecognized tax benefits as at December 31, 2023 would affect the effective tax rate.

The Company believes that it is reasonably possible that \$13 million of the net unrecognized tax benefits as at December 31, 2023 related to Canadian and U.S. federal, state, and provincial income tax matters, each of which are individually insignificant, may be recognized over the next twelve months as a result of settlements and a lapse of the applicable statute of limitations of which approximately half will affect the effective tax rate as the remaining amount relates to temporary differences.

The Company recognizes interest and penalties related to unrecognized tax benefits in Income tax expense in the Statements of Income. The Company recorded a net tax expense of \$1 million related to net interest and penalties expense for the year ended December 31, 2023 and net tax recoveries of \$12 million and \$2 million related to net reversals of interest and penalties for the years ended December 31, 2022 and 2021, respectively. As at December 31, 2023, the Company had accrued interest and penalties of \$14 million (2022 -\$13 million).

In Canada, the Company's federal and provincial income tax returns filed for the years 2018 to 2022 remain subject to examination by the taxation authorities. An examination of the Company's federal income tax returns for the year 2018 and 2019 is currently in progress and is expected to be completed during 2024. In 2020, the tax authorities proposed certain audit adjustments and, as a result, the Company recorded a \$25 million deferred tax expense which is comprised of net unrecognized tax benefits and related interest expenses. During 2021 and 2022, the tax authorities finalized their audit adjustments related to certain tax positions and as a result, the Company re-evaluated the relevant tax positions for all open years and recorded deferred tax recoveries of \$8 million and \$13 million, respectively, reducing net unrecognized tax benefits and related interest expenses. In the U.S., the federal income tax returns filed for the years 2020 to 2022 and the state income tax returns filed for the years 2018 to 2022 remain subject to examination by the taxation authorities. The Company does not anticipate any significant impacts to its results of operations or financial position as a result of the final resolutions of such matters.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

9 – Earnings per share

<i>In millions, except per share data</i>	<i>Year ended December 31,</i>	2023	2022	2021
Net income	\$	5,625	\$ 5,118	\$ 4,899
Weighted-average basic shares outstanding		657.7	686.4	708.5
Dilutive effect of stock-based compensation		1.4	1.9	1.8
Weighted-average diluted shares outstanding		659.1	688.3	710.3
Basic earnings per share	\$	8.55	\$ 7.46	\$ 6.91
Diluted earnings per share	\$	8.53	\$ 7.44	\$ 6.90
Units excluded from the calculation as their inclusion would not have a dilutive effect				
Stock options		1.0	0.6	0.5
Performance share units		0.5	0.2	0.1

10 – Accounts receivable

<i>In millions</i>	<i>As at December 31,</i>	2023	2022
Freight	\$	1,051	\$ 1,142
Non-freight		274	244
Gross accounts receivable		1,325	1,386
Allowance for credit losses		(25)	(15)
Net accounts receivable	\$	1,300	\$ 1,371

11 – Other current assets

<i>In millions</i>	<i>As at December 31,</i>	2023	2022
Prepaid expenses	\$	133	\$ 186
Income taxes receivable		–	46
Derivative instruments (Note 23)		–	33
Other		33	55
Total other current assets	\$	166	\$ 320

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

12 – Properties

As at	December 31, 2023				December 31, 2022			
	Depreciation rate	Cost	Accumulated Depreciation	Net	Cost	Accumulated Depreciation	Net	
In millions								
Properties including finance leases								
Track and roadway ⁽¹⁾	2 %	\$ 45,370	\$ 10,506	\$ 34,864	\$ 44,037	\$ 9,977	\$ 34,060	
Rolling stock	4 %	8,544	3,401	5,143	8,233	3,295	4,938	
Buildings	3 %	2,254	782	1,472	2,202	750	1,452	
Information technology ⁽²⁾	10 %	2,879	1,331	1,548	2,670	1,156	1,514	
Other	5 %	2,964	1,374	1,590	2,921	1,348	1,573	
Total properties including finance leases ⁽³⁾		\$ 62,011	\$ 17,394	\$ 44,617	\$ 60,063	\$ 16,526	\$ 43,537	
Finance leases included in properties								
Track and roadway ⁽⁴⁾		\$ 406	\$ 105	\$ 301	\$ 405	\$ 100	\$ 305	
Rolling stock		28	1	27	12	1	11	
Buildings		27	12	15	27	11	16	
Other		107	34	73	101	31	70	
Total finance leases included in properties		\$ 568	\$ 152	\$ 416	\$ 545	\$ 143	\$ 402	

(1) As at December 31, 2023, includes land of \$2,497 million (2022 - \$2,483 million).

(2) In 2023, the Company capitalized costs for internally developed software and related licenses of \$203 million (2022 - \$213 million).

(3) In 2023, property additions, net of finance leases, were \$3,187 million (2022 - \$2,750 million), of which \$1,529 million (2022 - \$1,490 million) related to track and railway infrastructure maintenance, including the replacement of rail, ties, bridge improvements, and other general track maintenance.

(4) As at December 31, 2023, includes right-of-way access of \$106 million (2022 - \$106 million).

Government assistance

For the year ended December 31, 2023 and 2022, the Company received \$90 million and \$70 million, respectively, of government assistance towards the purchase and self-construction of properties.

As at December 31, 2023 and 2022, the total Properties balance of \$44,617 million and \$43,537 million, respectively, is net of \$1,736 million and \$1,721 million of unamortized government assistance, respectively, primarily related to the enhancement of CN's track and roadway infrastructure. For the year ended December 31, 2023 and 2022, Depreciation and amortization expense on the Consolidated Statements of Income is presented net of amortization of government assistance of \$66 million and \$63 million, respectively.

13 – Leases

Lease costs

In millions	Year ended December 31,	2023	2022	2021
Finance lease cost				
Amortization of right-of-use assets	\$	11	\$ 11	\$ 12
Interest on lease liabilities		—	—	1
Total finance lease cost		11	11	13
Operating lease cost				
Short-term lease cost		39	40	26
Variable lease cost ⁽¹⁾		43	51	58
Total lease cost ⁽²⁾	\$	242	\$ 244	\$ 228

(1) Mainly relates to leases of trucks for the Company's freight delivery service contracts.

(2) Includes lease costs from Purchased services and material and Equipment rents in the Consolidated Statements of Income.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Classification

<i>In millions</i>	Classification	<i>As at December 31,</i>	2023	2022
Lease right-of-use assets				
Finance leases	Properties	\$	416	\$ 402
Operating leases	Operating lease right-of-use assets		424	470
Total lease right-of-use assets		\$	840	\$ 872
Lease liabilities				
Current				
Finance leases	Current portion of long-term debt	\$	31	\$ 1
Operating leases	Accounts payable and other		117	125
Noncurrent				
Finance leases	Long-term debt		7	9
Operating leases	Operating lease liabilities		298	341
Total lease liabilities		\$	453	\$ 476

Terms and discount rates

	<i>As at December 31,</i>	2023	2022
Weighted-average remaining lease term (years)			
Finance leases		1.0	4.8
Operating leases		4.9	5.3
Weighted-average discount rate (%)			
Finance leases		5.31	4.30
Operating leases		3.44	2.95

Additional information

<i>In millions</i>	<i>Year ended December 31,</i>	2023	2022	2021
Cash paid for amounts included in the measurement of lease liabilities (\$)				
Operating cash outflows from operating leases		148	135	129
Operating cash outflows from finance leases		—	—	1
Financing cash outflows from finance leases		2	7	68
Right-of-use assets obtained in exchange for lease liabilities (\$)				
Operating lease		91	142	135
Finance lease		30	7	6

Lease liabilities maturities

<i>In millions</i>	Finance leases	Operating leases ⁽¹⁾
2024	\$ 31	\$ 131
2025	2	111
2026	4	74
2027	1	48
2028	1	29
2029 & thereafter	—	58
Total lease payments	39	451
Less: Imputed interest	1	36
Present value of lease payments	\$ 38	\$ 415

(1) Includes \$70 million related to renewal options that are reasonably certain to be exercised.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

14 – Intangible assets, goodwill and other

<i>In millions</i>	<i>As at December 31,</i>	2023	2022
Investments ⁽¹⁾	\$	402	\$ 94
Intangible assets		131	137
Deferred costs		83	66
Goodwill		70	70
Long-term receivables		16	25
Other long-term assets		12	13
Total intangible assets, goodwill and other	\$	714	\$ 405

(1) As at December 31, 2023, the Company had \$367 million (2022 - \$60 million) of investments accounted for under the equity method, see Note 4 – Business acquisitions and combinations; and \$35 million (2022 - \$34 million) of investments for which fair value was not readily determinable accounted for at cost minus impairment, plus or minus observable price changes.

15 – Accounts payable and other

<i>In millions</i>	<i>As at December 31,</i>	2023	2022
Trade payables	\$	968	\$ 954
Payroll-related accruals		391	535
Accrued charges		350	288
Income and other taxes		310	388
Accrued interest		215	201
Operating lease liabilities (Note 13)		117	125
Derivative instruments (Note 23)		64	4
Personal injury and other claims provisions (Note 22)		51	45
Environmental provisions (Note 22)		39	41
Contract liabilities (Note 5)		13	12
Other postretirement benefits liability (Note 18)		12	14
Other		165	178
Total accounts payable and other	\$	2,695	\$ 2,785

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

16 – Debt

<i>In millions</i>	<i>Maturity</i>	<i>US\$ denominated amount</i>	<i>As at December 31,</i>	<i>2023</i>	<i>2022</i>
Notes and debentures ⁽¹⁾					
Canadian National series:					
7.63% 30-year debentures	May 15, 2023	US\$ —	\$ —	\$ 203	
2.95% 10-year notes ⁽²⁾	Nov 21, 2024	US\$ 350		464	474
2.80% 10-year notes ⁽²⁾	Sep 22, 2025			350	350
2.75% 10-year notes ⁽²⁾	Mar 1, 2026	US\$ 500		662	678
6.90% 30-year notes ⁽²⁾	Jul 15, 2028	US\$ 475		629	644
3.20% 10-year notes ⁽²⁾	Jul 31, 2028			350	350
3.00% 10-year notes ⁽²⁾	Feb 8, 2029			350	350
4.15% 7-year notes ⁽²⁾	May 10, 2030			550	—
7.38% 30-year debentures ⁽²⁾	Oct 15, 2031	US\$ 200		265	271
3.85% 10-year notes ⁽²⁾	Aug 5, 2032	US\$ 800		1,059	1,084
4.40% 10-year notes ⁽²⁾	May 10, 2033			400	—
5.85% 10-year notes ⁽²⁾	Nov 1, 2033	US\$ 300		397	—
6.25% 30-year notes ⁽²⁾	Aug 1, 2034	US\$ 500		662	678
6.20% 30-year notes ⁽²⁾	Jun 1, 2036	US\$ 450		596	610
6.71% Puttable Reset Securities PURS SM ⁽²⁾	Jul 15, 2036	US\$ 250		331	339
6.38% 30-year debentures ⁽²⁾	Nov 15, 2037	US\$ 300		397	407
3.50% 30-year notes ⁽²⁾	Nov 15, 2042	US\$ 250		331	339
4.50% 30-year notes ⁽²⁾	Nov 7, 2043	US\$ 250		331	339
3.95% 30-year notes ⁽²⁾	Sep 22, 2045			400	400
3.20% 30-year notes ⁽²⁾	Aug 2, 2046	US\$ 650		861	881
3.60% 30-year notes ⁽²⁾	Aug 1, 2047			500	500
3.65% 30-year notes ⁽²⁾	Feb 3, 2048	US\$ 600		795	813
3.60% 30-year notes ⁽²⁾	Jul 31, 2048			450	450
4.45% 30-year notes ⁽²⁾	Jan 20, 2049	US\$ 650		861	881
3.60% 30-year notes ⁽²⁾	Feb 8, 2049			450	450
3.05% 30-year notes ⁽²⁾	Feb 8, 2050			450	450
2.45% 30-year notes ⁽²⁾	May 1, 2050	US\$ 600		795	813
4.40% 30-year notes ⁽²⁾	Aug 5, 2052	US\$ 700		927	949
4.70% 30-year notes ⁽²⁾	May 10, 2053			800	—
6.13% 30-year notes ⁽²⁾	Nov 1, 2053	US\$ 300		397	—
4.00% 50-year notes ⁽²⁾	Sep 22, 2065			100	100
Illinois Central series:					
7.70% 100-year debentures	Sep 15, 2096	US\$ 125		165	169
BC Rail series:					
Non-interest bearing 90-year subordinated notes ⁽³⁾	Jul 14, 2094			842	842
Total notes and debentures				16,917	14,814
Other					
Commercial paper				1,801	805
Finance leases				38	10
Equipment loans and other ⁽⁴⁾				715	779
Total debt, gross				19,471	16,408
Net unamortized discount and debt issuance costs ⁽³⁾				(998)	(979)
Total debt ⁽⁵⁾				18,473	15,429
Less: Current portion of long-term debt				2,340	1,057
Total long-term debt				\$ 16,133	\$ 14,372

(1) The Company's notes and debentures are unsecured.

(2) The fixed rate debt securities are redeemable, in whole or in part, at the option of the Company, at any time, at the greater of par and a formula price based on interest rates prevailing at the time of redemption.

(3) As at December 31, 2023, these notes were recorded as a discounted debt of \$15 million (2022 - \$15 million) using an imputed interest rate of 5.75% (2022 - 5.75%). The discount of \$827 million (2022 - \$827 million) is included in Net unamortized discount and debt issuance costs.

(4) Includes \$677 million (2022 - \$734 million) of equipment loans under the non-revolving credit facility. Also included is \$38 million (2022 - \$45 million) of other equipment loans payable monthly at a weighted average interest rate of 2.11% (2022 - 2.12%).

(5) See Note 23 – Financial instruments for the fair value of debt.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Notes and debentures

For the year ended December 31, 2023, the Company issued and repaid the following:

- On November 1, 2023, issuance of US\$300 million (\$416 million) 5.85% Notes due 2033 and US\$300 million (\$416 million) 6.13% Notes due 2053, in the U.S. capital markets, which resulted in total net proceeds of \$824 million;
- On May 15, 2023, repayment of US\$150 million (\$203 million) 7.63% Notes due 2023 upon maturity; and
- On May 10, 2023, issuance of \$550 million 4.15% Notes due 2030, \$400 million 4.40% Notes due 2033 and \$800 million 4.70% Notes due 2053 in the Canadian capital markets, which resulted in total net proceeds of \$1,730 million.

For the year ended December 31, 2022, the Company issued and repaid the following:

- On November 15, 2022, repayment of US\$250 million (\$332 million) 2.25% Notes due 2022 upon maturity; and
- On August 5, 2022, issuance of US\$800 million (\$1,028 million) 3.85% Notes due 2032 and US\$700 million (\$900 million) 4.40% Notes due 2052, in the U.S. capital markets, which resulted in total net proceeds of \$1,901 million.

Revolving credit facilities

The Company has unsecured revolving credit facilities with a consortium of lenders. The unsecured credit facility of \$2.5 billion is available for general corporate purposes and backstopping the Company's commercial paper programs. The facility consists of two tranches of \$1.25 billion and was amended on March 17, 2023 to extend its tenor by one year to March 31, 2026 and March 31, 2028. This revolving credit facility agreement is structured as a sustainability linked loan whereby its applicable margins are adjusted up or down based on the Company's performance under certain sustainability targets. The unsecured credit facility of \$1.0 billion is available for general corporate purposes and was amended on March 17, 2023 to extend its tenor by one year to March 17, 2025. Both credit facilities provide borrowings at various benchmark interest rates, such as SOFR and CDOR, plus applicable margins, based on CN's credit ratings. The facilities were also amended in March 2023 to include fallback language that addresses the cessation of CDOR and adoption of CORRA as the alternative benchmark.

Subject to the consent of the individual lenders, the Company has the option to increase the revolving credit facilities by an additional \$500 million each during its term and to request an extension of the \$2.5 billion credit facility once a year to maintain the tenors of three year and five year of the respective tranches.

As at December 31, 2023 and 2022, the Company had no outstanding borrowings under these revolving credit facilities and there were no draws in 2023 and 2022.

Both revolving credit facility agreements have one financial covenant, which limits debt as a percentage of total capitalization. The Company was in compliance as at December 31, 2023.

Equipment loans

The Company has various secured non-revolving term loan credit facilities for financing or refinancing the purchase of equipment. The equipment loans made under the non-revolving credit facilities have a tenor at inception varying from 15 to 20 years and are secured by rolling stock.

On March 31, 2023, the Company entered into new loan supplements to the existing agreement for an additional principal amount of US\$304 million, which is available to be drawn, in Canadian or U.S. dollars, through March 31, 2024. On November 3, 2023, the Company entered into a new term loan facility for a principal amount of \$366 million, which is available to be drawn through November 4, 2024. Borrowings under the non-revolving term loan facilities are provided at SOFR and/or CDOR, plus applicable margins. On March 31, 2023, outstanding loans referencing LIBOR, were transitioned to SOFR. The facilities also include fallback language that addressed the cessation of CDOR and adoption of CORRA as the alternative benchmark. The Company made no draws under these facilities in 2023.

In 2023, the Company repaid \$41 million (2022 - \$40 million) of its equipment loans. As at December 31, 2023, the Company had outstanding borrowings of \$677 million (2022 - \$734 million), at a weighted-average interest rate of 6.09% (2022 - 5.22%), and had \$769 million (2022 - \$nil) available to be drawn under these facilities.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Commercial paper

The Company has a commercial paper program in Canada and in the U.S. Both programs are backstopped by the Company's revolving credit facility. The maximum aggregate principal amount of commercial paper that can be issued is \$2.5 billion, or the US dollar equivalent, on a combined basis.

As at December 31, 2023 and 2022, the Company had total commercial paper borrowings of US\$1,360 million (\$1,801 million) and US\$594 million (\$805 million), respectively, at a weighted-average interest rate of 5.63% and 4.27%, respectively, presented in Current portion of long-term debt on the Consolidated Balance Sheets.

<i>In millions</i>	<i>Year ended December 31,</i>	2023	2022	2021
Commercial paper with maturities less than 90 days				
Issuance	\$	13,767	\$ 11,799	\$ 5,254
Repayment		(13,090)	(11,087)	(5,289)
Change in commercial paper with maturities less than 90 days, net	\$	677	\$ 712	\$ (35)
Commercial paper with maturities of 90 days or greater				
Issuance	\$	1,871	\$ 440	\$ 353
Repayment		(1,640)	(589)	(252)
Change in commercial paper with maturities of 90 days or greater, net	\$	231	\$ (149)	\$ 101
Change in commercial paper, net	\$	908	\$ 563	\$ 66

Accounts receivable securitization program

The Company has an agreement to sell an undivided co-ownership interest in a revolving pool of accounts receivable to unrelated trusts for maximum cash proceeds of \$450 million. On January 19, 2023, the Company extended the term of its agreement by one year to February 1, 2025. The Company has retained the responsibility for servicing, administering and collecting the receivables sold. The average servicing period is approximately one month and the interest on borrowings under the accounts receivable securitization program is renewed based on commercial paper rates then in effect or SOFR or CDOR if the commercial paper market is inaccessible and includes fallback language that allows for the succession of CDOR to an alternative rate consistent with market convention.

As at December 31, 2023, and 2022, the Company had no outstanding borrowings under the accounts receivable securitization program. The Company had no proceeds received and no repayments in 2023, 2022 and 2021.

Bilateral letter of credit facilities

The Company has a series of committed and uncommitted bilateral letter of credit facility agreements. On March 17, 2023, the Company extended the maturity date of its committed bilateral letter of credit facility agreements to April 28, 2026. The agreements are held with various banks to support the Company's requirements to post letters of credit in the ordinary course of business. Under these agreements, the Company has the option from time to time to pledge collateral in the form of cash or cash equivalents, for a minimum term of one month, equal to at least the face value of the letters of credit issued.

As at December 31, 2023, the Company had outstanding letters of credit of \$337 million (2022 - \$396 million) under the committed facilities from a total available amount of \$361 million (2022 - \$470 million) and \$152 million (2022 - \$100 million) under the uncommitted facilities.

As at December 31, 2023, included in Restricted cash and cash equivalents was \$339 million (2022 - \$397 million) pledged as collateral under the committed bilateral letter of credit facilities, \$100 million (2022 - \$100 million) pledged as collateral under the uncommitted bilateral letter of credit facilities, and \$10 million (2022 - \$9 million) held in escrow.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Debt maturities

<i>In millions</i>		Debt ⁽¹⁾
2024	\$	2,309
2025		383
2026		695
2027		34
2028		1,014
2029 & thereafter		14,000
Total		18,435
Finance lease liabilities ⁽²⁾		38
Total debt	\$	18,473

(1) Presented net of unamortized discounts and debt issuance costs.

(2) See Note 13 – Leases for maturities of finance lease liabilities.

Amount of US dollar-denominated debt

<i>In millions</i>	<i>As at December 31,</i>	2023	2022
Notes and debentures	US\$	8,250	US\$ 7,800
Commercial paper		1,360	594
Finance lease liabilities		27	7
Equipment loans and other		540	574
Total amount of US dollar-denominated debt in US\$	US\$	10,177	US\$ 8,975
Total amount of US dollar-denominated debt in C\$	\$	13,477	\$ 12,165

17 – Other liabilities and deferred credits

<i>In millions</i>	<i>As at December 31,</i>	2023	2022
Personal injury and other claims provisions (Note 22) ⁽¹⁾	\$	260	\$ 251
Contract liabilities (Note 5) ⁽¹⁾		82	16
Environmental provisions (Note 22) ⁽¹⁾		19	18
Stock-based compensation liability (Note 20)		5	7
Deferred credits and other		156	149
Total other liabilities and deferred credits	\$	522	\$ 441

(1) See Note 15 – Accounts payable and other for the related current portion.

18 – Pensions and other postretirement benefits

The Company has various retirement benefit plans under which substantially all of its employees are entitled to benefits at retirement age, generally based on compensation and length of service and/or contributions. Senior and executive management employees, subject to certain minimum service and age requirements, are also eligible for an additional retirement benefit under their Special Retirement Stipend Agreements, the Supplemental Executive Retirement Plan or the Defined Contribution Supplemental Executive Retirement Plan.

The Company also offers postretirement benefits to certain employees providing life insurance, medical benefits and, for a closed group of employees, free rail travel benefits during retirement. These postretirement benefits are funded as they become due. The information in the tables that follow pertains to all of the Company's defined benefit plans. However, the following descriptions relate solely to the Company's main pension plan, the CN Pension Plan, unless otherwise specified.

Amendments to postretirement medical benefits plans in the U.S.

In June 2022, CN approved changes affecting members participating in the Company's postretirement medical benefits plans in the U.S. Beginning in 2023, Medicare-eligible retirees are covered by a health reimbursement arrangement, which is an employer-funded account that can be used for reimbursement of eligible medical expenses. Non-Medicare eligible retirees continue to be covered by the existing self-insured program. This change constituted a plan amendment event resulting in a \$28 million reduction to the affected plans' Accumulated projected benefit obligation, recorded in Other comprehensive income, and is composed of a prior service credit of \$21 million and an actuarial gain of \$7 million, substantially all due to lower expected future benefit payments and to the approximate 130 basis point increase in the end of period discount rates between December 31, 2021 and May 31, 2022, respectively.

Curtailment event

On October 31, 2021, the CN Board of Directors approved changes affecting non-unionized members participating in the Company's defined benefit pension plans. Effective April 1, 2024, the affected defined benefit pension plans will be amended to cease benefits accruals for non-unionized members, generally known as a delayed hard freeze. Effective April 1, 2024, all non-unionized members will be transferred to the Company's defined contribution pension plans for their future service. This delayed hard freeze constitutes a plan curtailment event recognized on October 31, 2021 resulting in a \$52 million reduction to the Projected benefit obligation, recorded in Other comprehensive income as an actuarial gain, mostly due to reflecting projected future salary increases and service only up to April 1, 2024. The curtailment event also triggered an interim re-measurement of the funded status of the affected defined benefit pension plans resulting in an actuarial gain of \$1,915 million recorded in Other comprehensive income composed of i) an actuarial gain on the Projected benefit obligation of \$1,808 million substantially all due to the 84 basis point increase in the end of period discount rate between December 31, 2020 of 2.55% and October 31, 2021 of 3.39%, and ii) an actuarial gain on the Plan assets of \$107 million due to higher actual returns of \$982 million compared to expected returns of \$875 million over that same ten-month period. Due to the interim re-measurement, the resulting Net periodic benefit income recorded during the fourth quarter of 2021 increased by \$25 million composed of i) a decrease to Current service cost of \$9 million, and ii) an increase to Other components of net periodic benefit income of \$16 million.

Description of the CN Pension Plan

The CN Pension Plan is a contributory defined benefit pension plan that covers the majority of CN employees. It provides for pensions based mainly on years of service and final average pensionable earnings and is generally applicable from the first day of employment. Indexation of pensions is provided after retirement through a gain/loss sharing mechanism, subject to guaranteed minimum increases. An independent trust company is the Trustee of the Company's pension trust funds (which includes the CN Pension Trust Fund). As Trustee, the trust company performs certain duties, which include holding legal title to the assets of the CN Pension Trust Fund and ensuring that the Company, as Administrator, complies with the provisions of the CN Pension Plan and the related legislation. The Company utilizes a measurement date of December 31 for the CN Pension Plan.

Funding policy

Employee contributions to the CN Pension Plan are determined by the plan rules. Company contributions are in accordance with the requirements of the Government of Canada legislation, the *Pension Benefits Standards Act, 1985*, including amendments and regulations thereto, and such contributions follow minimum and maximum thresholds as determined by actuarial valuations. Actuarial valuations are generally required on an annual basis for all Canadian defined benefit pension plans, or when deemed appropriate by the Office of the Superintendent of Financial Institutions. These actuarial valuations are prepared in accordance with legislative requirements and with the recommendations of the Canadian Institute of Actuaries for the valuation of pension plans. Actuarial valuations are also required annually for the Company's U.S. qualified defined benefit pension plans.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

The Company's most recently filed actuarial valuations for funding purposes for its Canadian registered defined benefit pension plans conducted as at December 31, 2022 indicated a funding excess on a going concern basis of approximately \$4.4 billion and a funding excess on a solvency basis of approximately \$1.6 billion, calculated using the three-year average of the plans' hypothetical wind-up ratio in accordance with the *Pension Benefit Standards Regulations, 1985*. The federal pension legislation requires funding deficits, if any, to be paid over a number of years, as calculated under current pension regulations. Alternatively, a letter of credit can be subscribed to fulfill required solvency deficit payments.

The Company's next actuarial valuations for funding purposes for its Canadian registered defined benefit pension plans required as at December 31, 2023 will be performed in 2024. These actuarial valuations are expected to identify a funding excess on a going concern basis of approximately \$4.9 billion, while on a solvency basis a funding excess of approximately \$2.6 billion is expected. Based on the anticipated results of these valuations, the CN Pension Plan is expected to remain fully funded and at a level such that the Company would continue to be prohibited from making contributions to the CN Pension Plan in 2024. As such, the Company expects to make total cash contributions of approximately \$70 million in 2024 for all other pension plans, and includes the impact of affected non-unionized members transferring from the Company's defined benefit pension plans to defined contribution pension plans effective April 1, 2024. As at January 31, 2024 the Company had contributed \$2 million to its defined benefit pension plans for 2024.

Plan assets

The assets of the Company's various Canadian defined benefit pension plans are primarily held in separate trust funds ("Trusts") which are diversified by asset type, geography, sector and investment strategy. Each year, the CN Board of Directors reviews and confirms or amends the Statement of Investment Policies and Procedures (SIPP) which includes the plans' long-term target asset allocation ("Policy") and related benchmark indices. This Policy is based on the long-term expectations of the economy and financial market returns and considers the dynamics of the plans' pension benefit obligations. In 2023, the Policy was amended to implement a target asset allocation change to bonds and mortgages and equities.

The CN Investment Division ("Investment Manager"), a division of the Company created to invest and administer the assets of the plan, can also implement an investment strategy ("Strategy") which can lead the plan's actual asset allocation to deviate from the Policy due to changing market risks and opportunities. The Pension and Investment Committee of the Board of Directors ("Committee") regularly compares the actual plan asset allocation to the Policy and Strategy and compares the actual performance of the Company's pension plan assets to the performance of the benchmark indices.

Actual asset allocation

	Policy	Actual plan asset allocation	
		2023	2022
Cash and short-term investments	2 %	2 %	3 %
Bonds and mortgages	41 %	41 %	35 %
Emerging market debt	2 %	2 %	2 %
Private debt	3 %	6 %	6 %
Equities	29 %	25 %	30 %
Real estate	4 %	3 %	3 %
Resource and royalties	5 %	7 %	7 %
Infrastructure	4 %	4 %	4 %
Specialty portfolio	2 %	2 %	2 %
Absolute return	12 %	14 %	15 %
Alternative risk premia	— %	— %	1 %
Investment-related liabilities	(4 %)	(6 %)	(8 %)
Total	100 %	100 %	100 %

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

The Committee's approval is required for all major investments in illiquid securities. The SIPP allows for the use of derivative financial instruments to implement strategies, hedge and adjust existing or anticipated exposures. The SIPP prohibits investments in securities of the Company or its subsidiaries. Investments held in the Company's pension plans consist mainly of the following:

- Cash and short-term investments consist of highly liquid securities which ensure adequate cash flows are available to cover near-term benefit payments as well as anticipated cash requirements needed to support derivative instruments or any other contractual commitment. Short-term investments are mainly obligations issued by Canadian chartered banks and by Canadian governments.
- Bonds include bond instruments, issued or guaranteed by governments and non-government entities. As at December 31, 2023, 73% (2022 - 76%) of bonds were issued or guaranteed by Canadian, U.S. or other governments. Mortgages consist of mortgage bonds, interest in mortgages or in funds making loans, all of which are secured by real estate. On an exposure basis, the Plan's Policy for bonds and mortgages is 46%. This comprises a 41% allocation mainly to government and corporate bonds and a 5% allocation to derivative financial instruments related to bond exposure.
- Emerging market debt consists of units of co-mingled funds or in separate accounts managed by external managers whose mandate is to invest in debt instruments of emerging market countries.
- Private debt includes participations in private debt securities and funds focused on generating steady yields.
- Equity investments include publicly traded securities diversified by industry sector, geography and issuer and investments in private equity funds. As at December 31, 2023, the most significant allocation to an individual issuer of a publicly traded security was 6% (2022 - 4%) and the most significant allocation to an industry sector was 24% (2022 - 19%). On an exposure basis, the Plan's Policy for equities is 34%. This comprises a 29% allocation to equities and a 5% allocation to derivative financial instruments related to equity exposure.
- Real estate is a diversified portfolio of Canadian land and commercial properties and investments in global real estate private equity funds.
- Resource and royalties investments include petroleum and natural gas and mineral properties and listed and non-listed securities of resource and energy transition companies.
- Infrastructure investments include participations in private infrastructure funds, term loans and notes of infrastructure companies.
- Specialty portfolio consists of mainly private equities in addition to private debt, resource and royalties investments, absolute return investments and public equities. Exposure to public assets may be included to manage the risk-return profile and tactical allocation relative to the Policy portfolio weight.
- Absolute return investments are primarily a portfolio of units of externally managed hedge funds, which are invested in various long/short and derivatives strategies within multi-strategy, fixed income, commodity, equity, global macro funds and downside protection. Managers are monitored on a continuous basis through investment and operational due diligence.
- For 2022, alternative risk premia investments are a portfolio of units of externally managed funds and internally managed strategies on a risk-adjusted basis.
- Investment-related liabilities reflect a certain level of financing associated with securities sold under repurchase agreements and other assets.

The plans' Investment Manager monitors market events and risk exposures to foreign currencies, interest rates, market risks, credit risks and liquidity risks daily. When investing in foreign securities, the plans are exposed to foreign currency risk that may be adjusted or hedged; the effect of which is included in the valuation of the foreign securities. Net of the adjusted or hedged amount, the plans were 58% exposed to the Canadian dollar, 29% to the US dollar, 7% to European currencies, 1% to the Japanese Yen and 5% to various other currencies as at December 31, 2023. Interest rate risk represents the risk that the fair value of the investments will fluctuate due to changes in market interest rates. Sensitivity to interest rates is a function of the timing and amount of cash flows of the interest-bearing assets and liabilities of the plans. Derivatives are contractual agreements whose value is derived from interest rates, foreign currencies, commodities, or equities, among other fluctuating inputs and factors. They may include forwards, futures, options and swaps. Derivatives are included in the investment asset classes based on their underlying exposure and are used from time to time to synthetically replace any investment activity that would otherwise be accomplished through a direct investment in any investment asset class. When derivatives are used for hedging purposes, the gains or losses on the derivatives are offset by a corresponding change in the value of the hedged assets. To manage counterparty credit risk, established policies require dealing with counterparties considered to be of high credit quality. Adequate liquidity is maintained to cover cash flows by monitoring factors such as fair value, collateral pledged and received, repurchase agreements and securities lending agreements.

Overall return in the capital markets and the level of interest rates affect the funded status of the Company's pension plans, particularly the Company's main Canadian pension plan. Adverse changes with respect to pension plan returns and the level of interest rates from the date of the last actuarial valuations may have a material adverse effect on the funded status of the plans and on the Company's results of operations.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Fair value of plan assets by asset class

In millions	Fair value measurements at December 31, 2023					NAV
	Total	Level 1	Level 2	Level 3		
Cash and short-term investments ⁽¹⁾	\$ 367	\$ 117	\$ 250	\$ —	\$ —	—
Bonds ⁽²⁾						
Canada, U.S. and supranational	38	—	38	—	—	—
Provinces of Canada and municipalities	5,209	—	5,209	—	—	—
Corporate	1,903	—	1,903	—	—	—
Emerging market debt ⁽³⁾	352	—	352	—	—	—
Mortgages ⁽⁴⁾	1	—	1	—	—	—
Private debt ⁽⁵⁾	1,021	—	1	—	—	1,020
Public equities ⁽⁶⁾						
Canadian	181	180	1	—	—	—
U.S.	1,828	1,736	92	—	—	—
International	2,170	2,170	—	—	—	—
Private equities ⁽⁷⁾	616	—	(3)	—	—	619
Real estate ⁽⁸⁾	439	—	—	252	—	187
Resource and royalties ⁽⁹⁾	1,272	312	45	915	—	—
Infrastructure ⁽¹⁰⁾	660	—	14	—	—	646
Absolute return funds ⁽¹¹⁾						
Multi-strategy	1,192	—	—	—	—	1,192
Fixed income	6	—	4	—	—	2
Equity	385	—	—	—	—	385
Global macro	774	—	—	—	—	774
Downside protection	15	13	2	—	—	—
Total investments ⁽¹³⁾	\$ 18,429	\$ 4,528	\$ 7,909	\$ 1,167	\$ —	4,825
Investment-related liabilities ⁽¹⁴⁾	(868)					
Other ⁽¹⁵⁾	(28)					
Total plan assets	\$ 17,533					

Level 1: Fair value based on quoted prices in active markets for identical assets.

Level 2: Fair value based on other significant observable inputs.

Level 3: Fair value based on significant unobservable inputs.

NAV: Investments measured at net asset value as a practical expedient.

Footnotes to the tables follow on the following page.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

	Fair value measurements at December 31, 2022					
In millions	Total	Level 1	Level 2	Level 3	NAV	
Cash and short-term investments ⁽¹⁾	\$ 536	\$ 72	\$ 464	\$ —	\$ —	—
Bonds ⁽²⁾						
Canada, U.S. and supranational	466	—	466	—		—
Provinces of Canada and municipalities	3,861	—	3,861	—		—
Corporate	1,389	—	1,389	—		—
Emerging market debt ⁽³⁾	363	—	363	—		—
Mortgages ⁽⁴⁾	16	—	16	—		—
Private debt ⁽⁵⁾	997	—	—	—		997
Public equities ⁽⁶⁾						
Canadian	361	354	7	—		—
U.S.	1,931	2,011	(80)	—		—
International	2,310	2,310	—	—		—
Private equities ⁽⁷⁾	689	—	(1)	—		690
Real estate ⁽⁸⁾	404	—	—	249		155
Resource and royalties ⁽⁹⁾	1,198	365	(8)	841		—
Infrastructure ⁽¹⁰⁾	720	—	76	—		644
Absolute return funds ⁽¹¹⁾						
Multi-strategy	1,390	—	—	—		1,390
Fixed income	8	—	3	—		5
Commodity	71	—	—	—		71
Equity	247	—	—	—		247
Global macro	773	—	—	—		773
Downside protection	70	70	—	—		—
Alternative risk premia ⁽¹²⁾	155	—	—	—		155
Total investments ⁽¹³⁾	\$ 17,955	\$ 5,182	\$ 6,556	\$ 1,090	\$ 5,127	
Investment-related liabilities ⁽¹⁴⁾	(1,479)					
Other ⁽¹⁵⁾	113					
Total plan assets	\$ 16,589					

Level 1: Fair value based on quoted prices in active markets for identical assets.

Level 2: Fair value based on other significant observable inputs.

Level 3: Fair value based on significant unobservable inputs.

NAV: Investments measured at net asset value as a practical expedient.

Footnotes to the tables follow on the following page.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Fair value of investments classified as Level 3

In millions	Fair value measurements based on significant unobservable inputs (Level 3)		
	Real estate ⁽⁸⁾	Resource and royalties ⁽⁹⁾	Total
Balance at December 31, 2021	\$ 272	\$ 677	\$ 949
Actual return relating to assets still held at the reporting date	(23)	221	198
Purchases	2	—	2
Disbursements	(2)	(57)	(59)
Balance at December 31, 2022	249	841	1,090
Actual return relating to assets still held at the reporting date	10	81	91
Purchases	2	2	4
Disbursements	(9)	(9)	(18)
Balance at December 31, 2023	\$ 252	\$ 915	\$ 1,167

- (1) Cash and short-term investments with related accrued interest are valued at cost, which approximates fair value, and are categorized as Level 1 and Level 2 respectively.
- (2) Bonds are valued using mid-market prices obtained from independent pricing data suppliers. When prices are not available from independent sources, the fair value is based on the present value of future net cash flows using current market yields for comparable instruments.
- (3) Emerging market debt funds are valued based on the net asset value which is readily available and published by each fund's independent administrator.
- (4) Mortgages are valued using mid-market prices obtained from independent pricing data suppliers. When prices are not available from independent sources, the fair value is based on the present value of future net cash flows using current market yields for comparable instruments.
- (5) Private debt investments are valued based on the net asset value as reported by each fund's manager, generally based on the present value of future net cash flows using current market yields for comparable instruments. In 2023, \$47 million (2022 - \$36 million) of private debt investments are included as part of the specialty portfolio strategy.
- (6) The fair value of public equity investments is based on quoted prices in active markets. In 2023, \$nil (2022 - \$5 million) of public equity investments are included as part of the specialty portfolio strategy.
- (7) Private equity investments are valued based on the net asset value as reported by each fund's manager, generally using discounted cash flow analysis or earnings multiples. In 2023, \$273 million (2022 - \$304 million) of private equity investments are included as part of the specialty portfolio strategy.
- (8) The fair value of real estate investments categorized as Level 3 includes immovable properties. Land is valued based on the fair value of comparable assets, and income producing properties are valued based on the present value of estimated future net cash flows or the fair value of comparable assets. Independent valuations of all immovable properties are performed triennially on a rotational basis. The fair value of real estate investments categorized as NAV consists mainly of investments in real estate private equity funds and is based on the net asset value as reported by each fund's manager, generally using a discounted cash flow analysis or earnings multiples.
- (9) Resource and royalties investments categorized as Level 1 are valued based on quoted prices in active markets. Resource and royalties participations traded on a secondary market are valued based on the most recent transaction price and are categorized as Level 2, of which \$10 million in 2023 (2022 - \$nil) are included as part of the specialty portfolio strategy. Investments in resource and royalties categorized as Level 3 consist of operating resource and royalties properties and the fair value is based on estimated future net cash flows that are discounted using prevailing market rates for transactions in similar assets. Estimated future net cash flows are based on forecasted oil, gas or other commodity prices and future projected annual production and costs.
- (10) The fair value of infrastructure investments categorized as Level 2 is based on the present value of future net cash flows using current market yields for comparable instruments. The fair value of infrastructure funds categorized as NAV is based on the net asset value as reported by each fund's manager, generally using a discounted cash flow analysis or earnings multiples.
- (11) Absolute return investments are valued using the net asset value as reported by each fund's independent administrator. All absolute return investments have contractual redemption frequencies, ranging from monthly to annually, and redemption notice periods varying from 5 to 90 days. In 2023, \$1 million (2022 - \$35 million) of absolute return investments are included as part of the specialty portfolio strategy.
- (12) Alternative risk premia investments are valued using the net asset value as reported by each fund's independent administrator or fund manager. All funds have contractual redemption frequencies ranging from daily to annually, and redemption notice periods varying from 5 to 60 days.

Footnotes to the table continue on the following page.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

- (13) Derivative financial instruments, which are included in total investments, are valued using quoted market prices when available and are categorized as Level 1, or based on valuation techniques using market data when quoted market prices are not available and are categorized as Level 2. The remaining derivatives included within Other are valued at mark-to-market. Derivatives are included in the investment asset categories based on their underlying exposure. The following table presents the fair value asset/unrealized gain or liability/unrealized loss positions and notional values as at December 31, 2023 and 2022:

In millions	Year ended December 31, 2023			Year ended December 31, 2022		
	Fair value			Fair value		
	Notional value	Asset/ unrealized gain	Liability/ unrealized loss	Notional value	Asset/ unrealized gain	Liability/ unrealized loss
Cash and short-term investments						
Foreign exchange forwards	\$ 20	\$ —	\$ —	\$ 5	\$ —	\$ —
Bonds						
Bond forwards	1,101	162	(4)	1,432	1	(24)
Foreign exchange forwards	71	1	(1)	32	1	(1)
Options	118	2	(2)	19	1	—
Credit default swaps	99	—	(2)	102	—	(1)
Swaps	378	198	(205)	10	—	(1)
Emerging market debt						
Swaps	19	2	—	18	2	—
Foreign exchange forwards	—	—	—	87	—	—
Private debt						
Foreign exchange forwards	101	1	—	83	—	—
Public equities						
Foreign exchange forwards	1,434	75	(14)	1,436	14	(30)
Swaps	2,172	40	(9)	1,636	7	(64)
Private equities						
Foreign exchange forwards	568	1	(4)	494	1	(2)
Real estate						
Foreign exchange forwards	11	—	—	17	—	—
Resource and royalties						
Commodity swaps	99	1	(16)	177	1	(45)
Infrastructure						
Foreign exchange forwards	190	2	—	174	1	—
Absolute return funds						
Foreign exchange forwards	689	4	—	580	3	—
Swaps	463	2	—	20	—	—
Options	36	13	—	203	70	—
Alternative risk premia						
Foreign exchange forwards	—	—	—	37	—	—
Swaps	—	—	—	360	1	(1)
Total derivatives included in investments	\$ 7,569	\$ 504	\$ (257)	\$ 6,922	\$ 103	\$ (169)
Other ⁽¹⁵⁾						
Interest rate futures	381	—	—	3,115	1	(1)
Equity futures	348	1	—	344	1	(1)
Total derivatives included in plan assets	\$ 8,298	\$ 505	\$ (257)	\$ 10,381	\$ 105	\$ (171)

- (14) Investment-related liabilities include securities sold under repurchase agreements. The securities sold under repurchase agreements do not meet the conditions to be removed from the assets and are therefore maintained on the books with an offsetting liability recorded to represent the financing nature of this transaction. These agreements are recorded at cost which together with accrued interest approximates fair value due to their short-term nature.
- (15) Other consists of operating assets of \$143 million (2022 - \$155 million) and liabilities of \$171 million (2022 - \$42 million) required to administer the Trusts' investment assets and the plans' benefits and funding activities. Such assets and liabilities are valued at cost, except for the interest rate and equity futures margins in Other which are valued at mark-to-market and have not been assigned to a fair value category.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Obligations and funded status for defined benefit pension and other postretirement benefit plans

In millions	Year ended December 31,	Pensions		Other postretirement benefits	
		2023	2022	2023	2022
Change in benefit obligation					
Projected benefit obligation at beginning of year		\$ 13,909	\$ 17,813	\$ 147	\$ 212
Amendments		—	—	—	(21)
Interest cost		703	468	7	5
Actuarial loss (gain) on projected benefit obligation ⁽¹⁾		1,035	(3,548)	2	(40)
Current service cost		83	157	1	2
Plan participants' contributions		64	60	—	—
Foreign currency changes		(6)	19	(1)	3
Benefit payments, settlements and transfers		(1,033)	(1,060)	(11)	(14)
Projected benefit obligation at the end of the year ⁽²⁾		\$ 14,755	\$ 13,909	\$ 145	\$ 147
Component representing future salary increases		(13)	(85)	—	—
Accumulated benefit obligation at end of year		\$ 14,742	\$ 13,824	\$ 145	\$ 147
Change in plan assets					
Fair value of plan assets at beginning of year		\$ 16,589	\$ 20,416	\$ —	\$ —
Employer contributions		25	47	—	—
Plan participants' contributions		64	60	—	—
Foreign currency changes		(4)	14	—	—
Actual return on plan assets		1,892	(2,888)	—	—
Benefit payments, settlements and transfers		(1,033)	(1,060)	—	—
Fair value of plan assets at end of year ⁽²⁾		\$ 17,533	\$ 16,589	\$ —	\$ —
Funded status - Excess (deficiency) of fair value of plan assets over projected benefit obligation at end of year		\$ 2,778	\$ 2,680	\$ (145)	\$ (147)

(1) Substantially all of the pensions' actuarial loss for the year ended December 31, 2023 and actuarial gain for the year ended December 31, 2022 is the result of the change in the end of year discount rate (62 basis points decrease for 2023 and 211 basis points increase for 2022).

(2) For the CN Pension Plan, as at December 31, 2023, the projected benefit obligation was \$13,711 million (2022 - \$12,887 million) and the fair value of plan assets was \$16,762 million (2022 - \$15,838 million). The measurement date of all plans is December 31.

Amounts recognized in the Consolidated Balance Sheets

In millions	As at December 31,	Pensions		Other postretirement benefits	
		2023	2022	2023	2022
Noncurrent assets - Pension asset		\$ 3,140	\$ 3,033	\$ —	\$ —
Current liabilities (Note 15)		—	—	(12)	(14)
Noncurrent liabilities - Pension and other postretirement benefits		(362)	(353)	(133)	(133)
Total amount recognized		\$ 2,778	\$ 2,680	\$ (145)	\$ (147)

Amounts recognized in Accumulated other comprehensive loss (Note 21)

In millions	As at December 31,	Pensions		Other postretirement benefits	
		2023	2022	2023	2022
Net actuarial gain (loss)		\$ (3,052)	\$ (2,730)	\$ 30	\$ 39
Prior service credit (cost)		\$ —	\$ —	\$ 19	\$ 22

Information for defined benefit pension plans with an accumulated benefit obligation in excess of plan assets

In millions	As at December 31,	Pensions	
		2023	2022
Accumulated benefit obligation ⁽¹⁾		\$ 562	\$ 543
Fair value of plan assets ⁽¹⁾		\$ 203	\$ 199

(1) All of the Company's other postretirement benefit pension plans have an accumulated benefit obligation in excess of plan assets.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Information for defined benefit pension plans with a projected benefit obligation in excess of plan assets

In millions	As at December 31,	Pensions	
		2023	2022
Projected benefit obligation	\$	565	\$ 631
Fair value of plan assets	\$	203	\$ 278

Components of net periodic benefit cost (income) for defined benefit pension and other postretirement benefit plans

In millions	Year ended December 31,	Pensions			Other postretirement benefits		
		2023	2022	2021	2023	2022	2021
Current service cost		\$ 83	\$ 157	\$ 197	\$ 1	\$ 2	\$ 2
Other components of net periodic benefit cost (income)							
Interest cost		703	468	392	7	5	5
Settlement loss		—	1	2	—	—	—
Expected return on plan assets		(1,186)	(1,132)	(1,076)	—	—	—
Amortization of prior service cost (credit)		—	—	—	(3)	(2)	(1)
Amortization of net actuarial loss (gain)		7	166	275	(7)	(4)	(4)
Total Other components of net periodic benefit cost (income)		\$ (476)	\$ (497)	\$ (407)	\$ (3)	\$ (1)	\$ —
Net periodic benefit cost (income)		\$ (393)	\$ (340)	\$ (210)	\$ (2)	\$ 1	\$ 2

Weighted-average assumptions used in accounting for defined benefit pension and other postretirement benefit plans

	As at December 31,	Pensions			Other postretirement benefits		
		2023	2022	2021	2023	2022	2021
To determine projected benefit obligation							
Discount rate ⁽¹⁾		4.64 %	5.26 %	3.15 %	4.71 %	5.23 %	3.06 %
Rate of compensation increase ⁽²⁾		2.75 %	2.75 %	2.75 %	2.75 %	2.75 %	2.75 %
To determine net periodic benefit cost (income)							
Rate to determine current service cost ⁽³⁾		5.25 %	3.40 %	3.02 %	5.17 %	3.43 %	2.95 %
Rate to determine interest cost ⁽³⁾		5.21 %	2.67 %	2.10 %	5.23 %	2.74 %	1.90 %
Rate of compensation increase ⁽²⁾		2.75 %	2.75 %	2.75 %	2.75 %	2.75 %	2.75 %
Expected return on plan assets ⁽⁴⁾		7.60 %	7.00 %	6.79 %	N/A	N/A	N/A

(1) The Company's discount rate assumption, which is set annually at the end of each year, is determined by management with the aid of third-party actuaries. The discount rate is used to measure the single amount that, if invested at the measurement date in a portfolio of high-quality debt instruments with a rating of AA or better, would provide the necessary cash flows to pay for pension benefits as they become due. For the Canadian pension and other postretirement benefit plans, future expected benefit payments are discounted using spot rates based on a derived AA corporate bond yield curve for each maturity year.

(2) The rate of compensation increase is determined by the Company based upon its long-term plans for such increases.

(3) The Company uses the spot rate approach to measure current service cost and interest cost for all defined benefit pension and other postretirement benefit plans. Under the spot rate approach, individual spot discount rates along the same yield curve used in the determination of the projected benefit obligation are applied to the relevant projected cash flows at the relevant maturity.

(4) The expected long-term rate of return is determined based on expected future performance for each asset class and is weighted based on the investment policy. For 2023, the Company used a long-term rate of return assumption of 7.60% on the market-related value of plan assets to compute net periodic benefit cost (income). In 2024, the Company will decrease the expected long-term rate of return on plan assets by 30 basis points to 7.30% to reflect management's current view of long-term investment returns.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Expected future benefit payments

<i>In millions</i>		Pensions	Other postretirement benefits
2024	\$	1,051	\$ 12
2025	\$	1,049	\$ 11
2026	\$	1,039	\$ 11
2027	\$	1,030	\$ 10
2028	\$	1,018	\$ 10
Years 2029 to 2033	\$	4,900	\$ 44

Defined contribution and other plans

The Company maintains defined contribution pension plans for certain salaried employees as well as certain employees covered by collective bargaining agreements. The Company also maintains other plans including a Section 401(k) savings plan for U.S. based employees. The Company's contributions under these plans were expensed as incurred and, in 2023, amounted to \$26 million (2022 - \$23 million; 2021 - \$23 million).

Contributions to multi-employer plan

Under collective bargaining agreements, the Company participates in a multi-employer benefit plan named the Railroad Employees National Early Retirement Major Medical Benefit Plan which provides certain postretirement health care benefits to certain retirees. The Company's contributions under this plan were expensed as incurred and amounted to \$6 million in 2023 (2022 - \$7 million; 2021 - \$10 million). The annual contribution rate for the plan was \$89.00 per month per active employee for 2023 (2022 - \$109.49). The plan covered 183 retirees in 2023 (2022 - 263 retirees).

19 – Share capital

Authorized capital stock

The authorized capital stock of the Company is as follows:

- Unlimited number of Common Shares, without par value
- Unlimited number of Class A Preferred Shares, without par value, issuable in series
- Unlimited number of Class B Preferred Shares, without par value, issuable in series

Common shares

<i>In millions</i>	<i>As at December 31,</i>	2023	2022	2021
Issued common shares		643.8	672.4	702.0
Common shares in Share Trusts		(1.1)	(1.4)	(1.1)
Outstanding common shares		642.7	671.0	700.9

Repurchase of common shares

The Company may repurchase its common shares pursuant to a Normal Course Issuer Bid (NCIB) at prevailing market prices plus brokerage fees, or such other prices as may be permitted by the Toronto Stock Exchange. The Company may repurchase up to 32.0 million common shares between February 1, 2023 and January 31, 2024 under its NCIB. As at December 31, 2023, the Company had repurchased 26.6 million common shares under this NCIB.

<i>In millions, except per share data</i>	<i>Year ended December 31,</i>	2023	2022	2021
Number of common shares repurchased		29.1	30.2	10.3
Weighted-average price per share ⁽¹⁾	\$	156.37	\$ 156.00	\$ 153.69
Amount of repurchase ⁽¹⁾	\$	4,551	\$ 4,709	\$ 1,582

(1) Includes brokerage fees.

See Note 25 – *Subsequent event* for information on the Company's new NCIB.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Share Trusts

The Company's Share Trusts purchase CN's common shares on the open market, which are used to deliver common shares under the Share Units Plan and the Employee Share Investment Plans (ESIP) (see Note 20 – Stock-based compensation). Shares purchased by the Share Trusts are retained until the Company instructs the trustee to transfer shares to the participants of the Share Units Plan or the ESIP. Common shares purchased by the Share Trusts are accounted for as treasury stock. The Share Trusts may sell shares on the open market to facilitate the remittance of the Company's employee tax withholding obligations under the Share Units Plan.

Share purchases

<i>In millions, except per share data</i>	<i>Year ended December 31,</i>	2023	2022	2021
Share purchases by Share Units Plan Share Trusts				
Number of common shares		—	0.5	—
Weighted-average price per share	\$	—	\$ 170.85	\$ —
Amount of purchase	\$	—	\$ 81	\$ —
Share purchases by ESIP Share Trusts				
Number of common shares		0.2	0.2	0.2
Weighted-average price per share	\$	156.89	\$ 155.53	\$ 142.90
Amount of purchase	\$	28	\$ 24	\$ 26
Total purchases	\$	28	\$ 105	\$ 26

Share settlements

<i>In millions, except per share data</i>	<i>Year ended December 31,</i>	2023	2022	2021
Share settlements by Share Units Plan Share Trusts				
Number of common shares		0.3	0.2	0.2
Weighted-average price per share	\$	122.08	\$ 88.23	\$ 88.23
Amount of settlement	\$	31	\$ 15	\$ 20
Share settlements by ESIP Share Trusts				
Number of common shares		0.2	0.2	0.2
Weighted-average price per share	\$	151.32	\$ 141.60	\$ 128.40
Amount of settlements	\$	23	\$ 23	\$ 18
Total settlements	\$	54	\$ 38	\$ 38

20 – Stock-based compensation

The Company has various stock-based compensation plans for eligible employees. A description of the major plans is provided herein.

Stock-based compensation expense

<i>In millions</i>	<i>Year ended December 31,</i>	2023	2022	2021
Share Units Plan	\$	25	\$ 31	\$ 47
Voluntary Incentive Deferral Plan (VIDP)		2	1	2
Stock option awards		11	8	12
Employee Share Investment Plan (ESIP)		26	23	20
Total stock-based compensation expense	\$	64	\$ 63	\$ 81
Income tax impacts of stock-based compensation				
Tax benefit recognized in income	\$	15	\$ 16	\$ 18
Excess tax benefit recognized in income	\$	10	\$ 14	\$ 10

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Share Units Plan

The objective of the Share Units Plan is to enhance the Company's ability to attract and retain talented employees and to provide alignment of interests between such employees and the shareholders of the Company. Under the Share Units Plan, the Company grants performance share unit (PSU) awards and restricted share unit (RSU) awards.

PSU-ROIC awards settle depending on the level of attainment of a target return on invested capital (ROIC) performance condition, as defined by the award agreement, over the plan period of three years. The level of attainment of the performance condition results in a performance factor that ranges from 0% to 200%. Settlement is also conditional upon the attainment of a minimum share price market condition, calculated using the average of the last three months of the plan period.

PSU-TSR awards settle depending on the level of attainment of a target total shareholder return (TSR) market condition, as defined by the award agreement, over the plan period of three years. The level of attainment of the market condition results in a performance factor that ranges from 0% to 200% depending on the Company's TSR relative to a Class I Railways peer group and the S&P/TSX 60 companies.

RSU awards settle depending on continued employment throughout the plan period, and are not subject to market or performance conditions.

PSUs and RSUs are settled in common shares of the Company by way of disbursement from the Share Trusts (see *Note 19 – Share capital*). The number of shares remitted to the participant upon settlement is equal to the sum of the number of PSUs awarded multiplied by the performance factor and the number of RSUs awarded, less shares withheld to satisfy the participant's withholding tax requirement.

Performance share units

For the 2021 grant, the level of ROIC attained resulted in a performance factor of 190%, and the level of TSR attained resulted in a performance factor of 119% for the plan period ended December 31, 2023. The total fair value of the equity settled PSU awards that vested in 2023 was \$44 million (2022 - \$40 million; 2021 - \$30 million). As the respective performance and market conditions under each award were met as at December 31, 2023, a settlement of approximately 0.3 million shares, net of withholding taxes, is expected to occur in the first quarter of 2024.

PSU awards

	PSU-ROIC ⁽¹⁾			PSU-TSR ⁽²⁾		
	Units	Weighted-average grant date fair value		Units	Weighted-average grant date fair value	
	<i>In millions</i>			<i>In millions</i>		
Outstanding at December 31, 2022	0.7	\$ 73.21		0.4	\$ 160.40	
Granted	0.2	\$ 89.37		0.1	\$ 174.04	
Settled ⁽³⁾	(0.2)	\$ 74.02		(0.1)	\$ 153.22	
Forfeited	—	\$ 91.23		—	\$ 188.58	
Outstanding at December 31, 2023	0.7	\$ 78.29		0.4	\$ 166.89	
Nonvested at December 31, 2022	0.5	\$ 72.78		0.2	\$ 164.20	
Granted	0.2	\$ 89.37		0.1	\$ 174.04	
Vested ⁽⁴⁾	(0.2)	\$ 64.50		(0.1)	\$ 148.02	
Forfeited	—	\$ 91.23		—	\$ 188.58	
Nonvested at December 31, 2023	0.5	\$ 78.29		0.2	\$ 166.89	

(1) The grant date fair value of equity settled PSUs-ROIC granted in 2023 of \$23 million is calculated using a lattice-based valuation model. As at December 31, 2023, total unrecognized compensation cost related to all outstanding awards was \$10 million and is expected to be recognized over a weighted-average period of 1.8 years.

(2) The grant date fair value of equity settled PSUs-TSR granted in 2023 of \$23 million is calculated using a Monte Carlo simulation model. As at December 31, 2023, total unrecognized compensation cost related to all outstanding awards was \$18 million and is expected to be recognized over a weighted-average period of 1.8 years.

(3) Equity settled PSUs-ROIC granted in 2020 met the minimum share price condition for settlement and attained a performance factor of 120%. Equity settled PSUs-TSR granted in 2020 attained a performance factor of 162%. In the first quarter of 2023, these awards were settled, net of the remittance of the participants' withholding tax obligation of \$35 million, by way of disbursement from the Share Trusts of 0.3 million common shares.

(4) These awards are expected to be settled in the first quarter of 2024.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Additional information

Year of grant	2023	2022	2021
Assumptions			
Stock price (\$) ⁽¹⁾	157.91	153.81	133.36
Expected stock price volatility (%) ⁽²⁾	26	25	24
Expected term (years) ⁽³⁾	3.0	3.0	3.0
Risk-free interest rate (%) ⁽⁴⁾	3.38	1.58	0.19
Dividend rate (\$) ⁽⁵⁾	3.16	2.93	2.46
Weighted-average grant date fair value (\$)			
ROIC	89.37	81.03	64.50
TSR	174.04	180.18	148.02

(1) Represents the closing share price on the grant date.

(2) Based on the historical volatility of the Company's stock over a period commensurate with the expected term of the award.

(3) Represents the period of time that awards are expected to be outstanding.

(4) Based on the implied yield available on zero-coupon government issues with an equivalent term commensurate with the expected term of the awards.

(5) Based on the annualized dividend rate.

Restricted share units

The Company has a nominal amount of RSU units as at December 31, 2023. The total fair value of RSU awards vested, the number of units outstanding that were nonvested, unrecognized compensation cost and the remaining recognition period have not been quantified as they relate to a minimal number of units.

Voluntary Incentive Deferral Plan

The Company's Voluntary Incentive Deferral Plan (VIDP) provides eligible senior management employees the opportunity to elect to receive their annual incentive bonus payment in deferred share units (DSU) up to specific deferral limits. A DSU is equivalent to a common share of the Company and also earns dividends when normal cash dividends are paid on common shares. The number of DSUs received by each participant is established at the time of deferral. For each participant, the Company will grant a further 25% of the amount elected in DSUs, which will vest over a period of four years. The election to receive eligible incentive payments in DSUs is no longer available to a participant when the value of the participant's vested DSUs is sufficient to meet the Company's stock ownership guidelines.

Equity settled awards

DSUs are settled in common shares of the Company at the time of cessation of employment by way of an open market purchase by the Company. The number of shares remitted to the participant is equal to the number of DSUs awarded less shares withheld to satisfy the participant's withholding tax requirement.

	Equity settled DSUs ⁽¹⁾	
	Units	Weighted-average grant date fair value
	<i>In millions</i>	
Outstanding at December 31, 2022	0.3	\$ 106.60
Granted	—	\$ 157.22
Settled ⁽²⁾	—	\$ 122.29
Outstanding at December 31, 2023 ⁽³⁾	0.3	\$ 112.66

(1) The grant date fair value of equity settled DSUs granted is calculated using the Company's stock price on the grant date. As at December 31, 2023, the aggregate intrinsic value of all equity settled DSUs outstanding amounted to \$56 million.

(2) For the year ended December 31, 2023, the shares purchased for the settlement of equity settled DSUs were net of the remittance of the participants' withholding tax obligation of \$3 million.

(3) The total fair value of equity settled DSU awards vested, the number of units outstanding that were nonvested, unrecognized compensation cost and the remaining recognition period have not been quantified as they relate to a minimal number of units.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Cash settled awards

The value of each participant's DSUs is payable in cash at the time of cessation of employment. The Company's liability for the cash settled VIDP is marked-to-market at each period-end and varies with the Company's share price. Fluctuations in the Company's share price cause volatility to stock-based compensation expense as recorded in Net income. The Company does not currently hold any derivative financial instruments to manage this exposure.

As at December 31, 2023, the liability for cash settled DSUs was \$5 million based on closing stock price of \$166.55 (2022 - \$7 million based on closing stock price of \$160.84).

Stock option awards

The Company's stock option plan allows for eligible employees to acquire common shares of the Company upon vesting at a price equal to the market value of the common shares at the grant date. The options issued by the Company are conventional options that vest over a period of time. The right to exercise options generally accrues over a period of four years of continuous employment for options granted prior to 2020, and five years for options granted in 2020 and onwards. Options are not generally exercisable during the first 12 months after the date of grant and expire after 10 years. As at December 31, 2023, 12.8 million common shares remained authorized for future issuances under these plans.

During the year ended December 31, 2023, the Company granted 0.6 million (2022 - 0.6 million; 2021 - 0.7 million) stock options.

	Options outstanding		Nonvested options	
	Number of options	Weighted-average exercise price	Number of options	Weighted-average grant date fair value
	In millions		In millions	
Outstanding at December 31, 2022 ⁽¹⁾	3.3	\$ 119.08	1.5	\$ 21.96
Granted ⁽²⁾	0.6	\$ 157.89	0.6	\$ 32.96
Forfeited/Cancelled	(0.1)	\$ 145.10	(0.1)	\$ 25.22
Exercised ⁽³⁾	(0.5)	\$ 94.60	N/A	N/A
Vested ⁽⁴⁾	N/A	N/A	(0.5)	\$ 20.18
Outstanding at December 31, 2023 ⁽¹⁾	3.3	\$ 127.64	1.5	\$ 26.65
Exercisable at December 31, 2023 ⁽¹⁾	1.8	\$ 110.61	N/A	N/A

(1) Stock options with a US dollar exercise price have been translated to Canadian dollars using the foreign exchange rate in effect at the balance sheet date.

(2) The grant date fair value of options granted in 2023 of \$19 million (\$32.96 per option) is calculated using the Black-Scholes option-pricing model. As at December 31, 2023, total unrecognized compensation cost related to all outstanding awards was \$19 million and is expected to be recognized over a weighted-average period of 3.6 years.

(3) The total intrinsic value of options exercised in 2023 was \$33 million (2022 - \$42 million; 2021 - \$42 million). The cash received upon exercise of options in 2023 was \$49 million (2022 - \$61 million; 2021 - \$52 million) and the related excess tax benefit realized in 2023 was \$1 million (2022 - \$2 million; 2021 - \$1 million).

(4) The grant date fair value of options vested in 2023 was \$10 million (2022 - \$11 million; 2021 - \$12 million).

The following table provides the number of stock options outstanding and exercisable as at December 31, 2023 by range of exercise price and their related intrinsic value, and for options outstanding, the weighted-average years to expiration. The table also provides the aggregate intrinsic value for in-the-money stock options, which represents the value that would have been received by option holders had they exercised their options on December 31, 2023 at the Company's closing stock price of \$166.55.

Range of exercise prices	Options outstanding				Options exercisable			
	Number of options	Weighted-average years to expiration	Weighted-average exercise price	Aggregate intrinsic value	Number of options	Weighted-average exercise price	Aggregate intrinsic value	
	In millions			In millions	In millions		In millions	
\$ 58.71 - \$ 100.00	0.6	2.7	\$ 86.45	\$ 44	0.6	\$ 86.45	\$ 44	
\$ 100.01 - \$ 120.00	0.6	4.8	\$ 109.67	37	0.6	\$ 109.66	37	
\$ 120.01 - \$ 135.00	0.7	6.3	\$ 127.77	27	0.3	\$ 127.12	14	
\$ 135.01 - \$ 155.00	0.5	7.4	\$ 142.96	13	0.2	\$ 141.17	5	
\$ 155.01 - \$ 166.89	0.9	8.8	\$ 158.27	7	0.1	\$ 159.93	—	
Balance at December 31, 2023 ⁽¹⁾	3.3	6.2	\$ 127.64	\$ 128	1.8	\$ 110.61	\$ 100	

(1) Stock options with a US dollar exercise price have been translated to Canadian dollars using the foreign exchange rate in effect at the balance sheet date. The weighted-average years to expiration of exercisable stock options was 4.8 years.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Additional information

Year of grant	2023	2022	2021
Assumptions			
Grant price (\$)	157.89	152.84	133.56
Expected stock price volatility (%) ⁽¹⁾	23	21	21
Expected term (years) ⁽²⁾	5.5	5.6	5.8
Risk-free interest rate (%) ⁽³⁾	2.98	1.72	0.48
Dividend rate (\$) ⁽⁴⁾	3.16	2.93	2.46
Weighted-average grant date fair value (\$)	32.96	27.00	20.50

(1) Based on the historical volatility of the Company's stock over a period commensurate with the expected term of the award.

(2) Represents the period of time that awards are expected to be outstanding. The Company uses historical data to predict option exercise behavior.

(3) Based on the implied yield available on zero-coupon government issues with an equivalent term commensurate with the expected term of the awards.

(4) Based on the annualized dividend rate.

ESIP

The Company has an ESIP giving eligible employees the opportunity to subscribe for up to 10% of their gross salaries to purchase shares of the Company's common stock on the open market and to have the Company invest, on the employees' behalf, a further 35% of the amount invested by the employees, up to 6% of their gross salaries.

Company contributions to the ESIP, which consist of shares purchased on the open market, are subject to a one-year vesting period and are forfeited should certain participant contributions be sold or disposed of prior to vesting. Company contributions to the ESIP are held in Share Trusts until vesting, at which time shares are delivered to the employee.

	ESIP	
	Number of shares	Weighted-average share price
	In millions	
Unvested contributions, December 31, 2022	0.1	\$ 154.12
Company contributions	0.3	\$ 156.57
Vested ⁽¹⁾	(0.2)	\$ 155.38
Forfeited	—	\$ 157.39
Unvested contributions, December 31, 2023 ⁽²⁾	0.2	\$ 156.40

(1) The total fair value of units purchased with Company contributions that vested in 2023 was \$23 million (2022 - \$24 million).

(2) As at December 31, 2023, total unrecognized compensation cost related to all outstanding units was \$16 million and is expected to be recognized over the next 12 months.

Additional information

Year ended December 31,	2023	2022	2021
Number of participants holding shares	21,450	19,967	20,142
Total number of ESIP shares purchased on behalf of employees (millions)	1.2	1.0	1.1

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

21 – Accumulated other comprehensive loss

<i>In millions</i>	Foreign currency translation adjustments	Pension and other postretirement benefit plans	Derivative instruments	Total before tax	Income tax recovery (expense) ⁽¹⁾	Total net of tax
Balance at December 31, 2020	\$ (384)	\$ (4,485)	\$ 5	\$ (4,864)	\$ 1,153	\$ (3,711)
Other comprehensive income (loss) before reclassifications:						
Translation of net investment ⁽²⁾	(84)			(84)	—	(84)
Translation of US dollar debt ⁽³⁾	32			32	(2)	30
Actuarial gain arising during the year		1,794		1,794	(471)	1,323
Amounts reclassified from Accumulated other comprehensive loss:						
Amortization of net actuarial loss		271		271	(71)	200
Amortization of prior service credit		(1)		(1)	—	(1)
Settlement loss arising during the year ⁽⁴⁾		2		2	—	2
Other comprehensive income (loss)	(52)	2,066	—	2,014	(544)	1,470
Balance at December 31, 2021	(436)	(2,419)	5	(2,850)	609	(2,241)
Other comprehensive income (loss) before reclassifications:						
Translation of net investment ⁽²⁾	1,073			1,073	—	1,073
Translation of US dollar debt ⁽³⁾	(707)			(707)	93	(614)
Derivative instruments ⁽⁵⁾			(2)	(2)	—	(2)
Actuarial loss arising during the year ⁽⁶⁾		(432)		(432)	113	(319)
Prior service credit arising during the year ⁽⁶⁾		21		21	(6)	15
Amounts reclassified from Accumulated other comprehensive loss:						
Amortization of net actuarial loss		162		162	(43)	119
Amortization of prior service credit		(2)		(2)	1	(1)
Settlement loss arising during the year ⁽⁴⁾		1		1	—	1
Other comprehensive income (loss)	366	(250)	(2)	114	158	272
Balance at December 31, 2022	(70)	(2,669)	3	(2,736)	767	(1,969)
Other comprehensive income (loss) before reclassifications:						
Translation of net investment ⁽²⁾	(363)			(363)	—	(363)
Translation of US dollar debt ⁽³⁾	262			262	(33)	229
Derivative instruments ⁽⁵⁾			97	97	(25)	72
Actuarial loss arising during the year		(331)		(331)	86	(245)
Amounts reclassified from Accumulated other comprehensive loss:						
Amortization of prior service credit		(3)		(3)	1	(2)
Amortization of gain on treasury lock			(1)	(1)	—	(1)
Other comprehensive income (loss)	(101)	(334)	96	(339)	29	(310)
Balance at December 31, 2023	\$ (171)	\$ (3,003)	\$ 99	\$ (3,075)	\$ 796	\$ (2,279)

(1) The Company releases stranded tax effects from Accumulated other comprehensive loss to Net income upon the liquidation or termination of the related item.

(2) Foreign exchange gain/(loss) on translation of net investment in foreign operations.

(3) Foreign exchange gain/(loss) on translation of US dollar-denominated debt designated as a hedge of the net investment in foreign operations. The Company designates US dollar-denominated debt of the parent company as a foreign currency hedge of its net investment in foreign operations. Accordingly, from the dates of designation, foreign exchange gains and losses on translation of the Company's US dollar-denominated debt are recorded in Accumulated other comprehensive loss, which minimizes the volatility of earnings resulting from the conversion of US dollar-denominated debt into Canadian dollars.

(4) Total before tax reclassified to Other components of net periodic benefit income in the Consolidated Statements of Income and included in net periodic benefit cost. See Note 18 – Pensions and other postretirement benefits.

(5) Cumulative gains or losses of the treasury locks are included in Derivative instruments. See Note 23 – Financial instruments for additional information.

(6) Amendments to the postretirement medical benefits plans in the U.S. resulted in a prior service credit of \$21 million and an actuarial gain of \$7 million. See Note 18 – Pensions and other postretirement benefits for additional information.

22 – Major commitments and contingencies

Purchase commitments

As at December 31, 2023, the Company had fixed and variable commitments to purchase locomotives, engineering services, information technology services and licenses, railroad cars, rail, rail ties, wheels as well as other equipment and services with a total estimated cost of \$2,222 million. Costs of variable commitments were estimated using forecasted prices and volumes.

Contingencies

In the normal course of business, the Company becomes involved in various legal actions seeking compensatory and occasionally punitive damages, including actions brought on behalf of various purported classes of claimants and claims relating to employee and third-party personal injuries, occupational disease and property damage, arising out of harm to individuals or property allegedly caused by, but not limited to, derailments or other accidents.

Personal injury and other claims provisions - Canada

Employee injuries are governed by the workers' compensation legislation in each province whereby employees may be awarded either a lump sum or a future stream of payments depending on the nature and severity of the injury. As such, the provision for employee injury claims is discounted. In the provinces where the Company is self-insured, costs related to employee work-related injuries are accounted for based on actuarially developed estimates of the ultimate cost associated with such injuries, including compensation, health care and third-party administration costs. An actuarial study is generally performed at least on a triennial basis. For all other legal actions, the Company maintains, and regularly updates on a case-by-case basis, provisions for such items when the expected loss is both probable and can be reasonably estimated based on currently available information.

In 2023, 2022 and 2021 the Company recorded a increase of \$11 million, and a decrease of \$11 million and \$11 million, respectively, to its provision for personal injuries in Canada as a result of actuarial valuations for employee injury claims.

<i>In millions</i>	2023	2022	2021
Beginning of year	\$ 168	\$ 182	\$ 206
Accruals and other	44	16	12
Payments	(32)	(30)	(36)
End of year	\$ 180	\$ 168	\$ 182
Current portion - End of year	\$ 24	\$ 27	\$ 50

Personal injury and other claims provisions - United States

Personal injury claims by the Company's employees, including claims alleging occupational disease and work-related injuries, are subject to the provisions of the *Federal Employers' Liability Act* (FELA). Employees are compensated under FELA for damages assessed based on a finding of fault through the U.S. jury system or through individual settlements. As such, the provision is undiscounted. With limited exceptions where claims are evaluated on a case-by-case basis, the Company follows an actuarial-based approach and accrues the expected cost for personal injury, including asserted and unasserted occupational disease claims, and property damage claims, based on actuarial estimates of their ultimate cost. An actuarial study is performed annually.

For employee work-related injuries, including asserted non-occupational disease claims, third-party claims, including grade crossing, trespasser and property damage claims, and occupational disease claims, the actuarial valuation considers, among other factors, the Company's historical patterns of claims filings and payments. For unasserted occupational disease claims, the actuarial valuation includes the projection of the Company's experience into the future considering the potentially exposed population. The Company adjusts its liability based upon management's assessment and the results of the study. On an ongoing basis, management reviews and compares the assumptions inherent in the latest actuarial valuation with the current claim experience and, if required, adjustments to the liability are recorded.

Due to the inherent uncertainty involved in projecting future events, including events related to occupational diseases, which include but are not limited to, the timing and number of actual claims, the average cost per claim and the legislative and judicial environment, the Company's future payments may differ from current amounts recorded.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

In 2023, the Company recorded a increase of \$2 million to its provision for U.S. personal injury and other claims attributable to non-occupational disease claims, third-party claims and occupational disease claims pursuant to the 2023 actuarial valuation. In 2022 and 2021, actuarial valuations resulted in a decrease of \$9 million and a decrease of \$20 million, respectively. The prior years' adjustments from the actuarial valuations were mainly attributable to non-occupational disease claims, third-party claims and occupational disease claims, reflecting changes in the Company's estimates of unasserted claims and costs related to asserted claims. The Company has an ongoing risk mitigation strategy focused on reducing the frequency and severity of claims through injury prevention and containment; mitigation of claims; and lower settlements of existing claims.

<i>In millions</i>	2023	2022	2021
Beginning of year	\$ 128	\$ 125	\$ 141
Accruals and other	34	33	30
Payments	(28)	(39)	(45)
Foreign exchange	(3)	9	(1)
End of year	\$ 131	\$ 128	\$ 125
Current portion - End of year	\$ 27	\$ 18	\$ 25

Although the Company considers such provisions to be adequate for all its outstanding and pending claims, the final outcome with respect to actions outstanding or pending at December 31, 2023, or with respect to future claims, cannot be reasonably determined. When establishing provisions for contingent liabilities the Company considers, where a probable loss estimate cannot be made with reasonable certainty, a range of potential probable losses for each such matter, and records the amount it considers the most reasonable estimate within the range. However, when no amount within the range is a better estimate than any other amount, the minimum amount in the range is accrued. For matters where a loss is reasonably possible but not probable, a range of potential losses cannot be estimated due to various factors which may include the limited availability of facts, the lack of demand for specific damages and the fact that proceedings were at an early stage. Based on information currently available, the Company believes that the eventual outcome of the actions against the Company will not, individually or in the aggregate, have a material adverse effect on the Company's financial position. However, due to the inherent inability to predict with certainty unforeseeable future developments, there can be no assurance that the ultimate resolution of these actions will not have a material adverse effect on the Company's results of operations, financial position or liquidity.

Environmental matters

The Company's operations are subject to numerous federal, provincial, state, municipal and local environmental laws and regulations in Canada and the U.S. concerning, among other things, emissions into the air; discharges into waters; the generation, handling, storage, transportation, treatment and disposal of waste, hazardous substances, and other materials; decommissioning of underground and aboveground storage tanks; and soil and groundwater contamination. A risk of environmental liability is inherent in railroad and related transportation operations; real estate ownership, operation or control; and other commercial activities of the Company with respect to both current and past operations.

Known existing environmental concerns

The Company is or may be liable for remediation costs at individual sites, in some cases along with other potentially responsible parties, associated with actual or alleged contamination. The ultimate cost of addressing these known contaminated sites cannot be definitively established given that the estimated environmental liability for any given site may vary depending on the nature and extent of the contamination; the nature of anticipated response actions, taking into account the available clean-up techniques; evolving regulatory standards governing environmental liability; and the number of potentially responsible parties and their financial viability. As a result, liabilities are recorded based on the results of a four-phase assessment conducted on a site-by-site basis. A liability is initially recorded when environmental assessments occur, remedial efforts are probable, and when the costs, based on a specific plan of action in terms of the technology to be used and the extent of the corrective action required, can be reasonably estimated. The Company estimates the costs related to a particular site using cost scenarios established by external consultants based on the extent of contamination and expected costs for remedial efforts. In the case of multiple parties, the Company accrues its allocable share of liability taking into account the Company's alleged responsibility, the number of potentially responsible parties and their ability to pay their respective share of the liability. Adjustments to initial estimates are recorded as additional information becomes available.

The Company's provision for specific environmental sites is undiscounted and includes costs for remediation and restoration of sites, as well as monitoring costs. Environmental expenses, which are classified as Other expense in the Consolidated Statements of Income, include amounts for newly identified sites or contaminants as well as adjustments to initial estimates. Recoveries of environmental remediation costs from other parties are recorded as assets when their receipt is deemed probable.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Environmental provisions

<i>In millions</i>	2023		2022		2021
Beginning of year	\$	59	\$	56	\$ 59
Accruals and other		17		27	23
Payments		(19)		(26)	(26)
Foreign exchange		1		2	—
End of year	\$	58	\$	59	\$ 56
Current portion - End of year	\$	39	\$	41	\$ 38

The Company anticipates that the majority of the liability at December 31, 2023 will be paid out over the next five years. Based on the information currently available, the Company considers its provisions to be adequate.

Unknown existing environmental concerns

While the Company believes that it has identified the costs likely to be incurred for environmental matters based on known information, the discovery of new facts, future changes in laws, the possibility of releases of hazardous materials into the environment and the Company's ongoing efforts to identify potential environmental liabilities that may be associated with its properties may result in the identification of additional environmental liabilities and related costs. The magnitude of such additional liabilities and the costs of complying with future environmental laws and containing or remediating contamination cannot be reasonably estimated due to many factors, including:

- the lack of specific technical information available with respect to many sites;
- the absence of any government authority, third-party orders, or claims with respect to particular sites;
- the potential for new or changed laws and regulations and for development of new remediation technologies and uncertainty regarding the timing of the work with respect to particular sites; and
- the determination of the Company's liability in proportion to other potentially responsible parties and the ability to recover costs from any third parties with respect to particular sites.

Therefore, the likelihood of any such costs being incurred or whether such costs would be material to the Company cannot be determined at this time. There can thus be no assurance that liabilities or costs related to environmental matters will not be incurred in the future, or will not have a material adverse effect on the Company's financial position or results of operations in a particular quarter or fiscal year, or that the Company's liquidity will not be adversely impacted by such liabilities or costs, although management believes, based on current information, that the costs to address environmental matters will not have a material adverse effect on the Company's financial position or liquidity. Costs related to any unknown existing or future contamination will be accrued in the period in which they become probable and reasonably estimable.

Future occurrences

In railroad and related transportation operations, it is possible that derailments or other accidents, including spills and releases of hazardous materials, may occur that could cause harm to human health or to the environment. As a result, the Company may incur costs in the future, which may be material, to address any such harm, compliance with laws and other risks, including costs relating to the performance of clean-ups, payment of environmental penalties and remediation obligations, and damages relating to harm to individuals or property.

Regulatory compliance

The Company may incur significant capital and operating costs associated with environmental regulatory compliance and clean-up requirements, in its railroad operations and relating to its past and present ownership, operation or control of real property. Operating expenses related to regulatory compliance activities for environmental matters for the year ended December 31, 2023 amounted to \$32 million (2022 - \$31 million; 2021 - \$27 million). In addition, based on the results of its operations and maintenance programs, as well as ongoing environmental audits and other factors, the Company plans for specific capital improvements on an annual basis. Certain of these improvements help ensure facilities, such as fueling stations, waste water and storm water treatment systems, comply with environmental standards and include new construction and the updating of existing systems and/or processes. Other capital expenditures relate to assessing and remediating certain impaired properties. The Company's environmental capital expenditures for the year ended December 31, 2023 amounted to \$13 million (2022 - \$19 million; 2021 - \$18 million).

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Guarantees and indemnifications

In the normal course of business, the Company enters into agreements that may involve providing guarantees or indemnifications to third parties and others, which may extend beyond the term of the agreements. These include, but are not limited to, standby letters of credit, surety and other bonds, and indemnifications that are customary for the type of transaction or for the railway business.

As at December 31, 2023, the Company had outstanding letters of credit of \$337 million (2022 - \$396 million) under the committed bilateral letter of credit facilities and \$152 million (2022 - \$100 million) under the uncommitted bilateral letter of credit facilities, and surety and other bonds of \$157 million (2022 - \$171 million), all issued by financial institutions with investment grade credit ratings to third parties to indemnify them in the event the Company does not perform its contractual obligations.

As at December 31, 2023, the maximum potential liability under these guarantee instruments was \$646 million (2022 - \$667 million), of which \$603 million (2022 - \$625 million) related to other employee benefit liabilities and workers' compensation and \$43 million (2022 - \$42 million) related to other liabilities. The guarantee instruments expire at various dates between 2024 and 2025.

As at December 31, 2023, the Company had not recorded a liability with respect to guarantees as the Company did not expect to make any payments under its guarantees.

General indemnifications

In the normal course of business, the Company provides indemnifications, customary for the type of transaction or for the railway business, in various agreements with third parties, including indemnification provisions where the Company would be required to indemnify third parties and others. During the year, the Company entered into various contracts with third parties for which an indemnification was provided. Due to the nature of the indemnification clauses, the maximum exposure for future payments cannot be reasonably determined. To the extent of any actual claims under these agreements, the Company maintains provisions for such items, which it considers to be adequate. As at December 31, 2023, the Company had not recorded a liability with respect to any indemnifications.

23 – Financial instruments

Risk management

In the normal course of business, the Company is exposed to various risks from its use of financial instruments. To manage these risks, the Company follows a financial risk management framework, which is monitored and approved by the Company's Audit, Finance and Risk Committee, with a goal of maintaining a strong balance sheet, optimizing earnings per share and free cash flow, financing its operations at an optimal cost of capital and preserving its liquidity. The Company has limited involvement with derivative financial instruments in the management of its risks and does not hold or issue them for trading or speculative purposes.

Foreign currency risk

The Company conducts its business in both Canada and the U.S. and as a result, is affected by currency fluctuations. Changes in the exchange rate between the Canadian dollar and the US dollar affect the Company's revenues and expenses. To manage foreign currency risk, the Company designates US dollar-denominated debt of the parent company as a foreign currency hedge of its net investment in foreign operations. As a result, from the dates of designation, foreign exchange gains and losses on translation of the Company's US dollar-denominated debt are recorded in Accumulated other comprehensive loss, which minimizes volatility of earnings resulting from the conversion of US dollar-denominated debt into the Canadian dollar.

The Company also enters into foreign exchange forward contracts to manage its exposure to foreign currency risk. As at December 31, 2023, the Company had outstanding foreign exchange forward contracts to purchase a notional value of US\$1,496 million (2022 - US\$1,311 million). These outstanding contracts are at a weighted-average exchange rate of \$1.37 per US\$1.00 (2022 - \$1.33 per US\$1.00) with exchange rates ranging from \$1.34 to \$1.39 per US\$1.00 (2022 - \$1.29 to \$1.37 per US\$1.00). The weighted-average term of the contracts is 77 days (2022 - 157 days) with terms ranging from 26 days to 178 days (2022 - 29 days to 300 days). Changes in the fair value of foreign exchange forward contracts, resulting from changes in foreign exchange rates, are recognized in Other income in the Consolidated Statements of Income as they occur. For the year ended December 31, 2023, the Company recorded a loss of \$45 million (2022 - gain of \$129 million; 2021 - loss of \$18 million) related to foreign exchange forward contracts. These gains and losses were largely offset by the re-measurement of US dollar-denominated monetary assets and liabilities recognized in Other income. As at December 31, 2023, the fair value of outstanding foreign exchange forward contracts included in Other current assets and Accounts payable and other was \$nil and \$64 million, respectively (2022 - \$33 million and \$4 million, respectively).

Interest rate risk

The Company is exposed to interest rate risk, which is the risk that the fair value or future cash flows of a financial instrument will vary as a result of changes in market interest rates. Such risk exists in relation to the Company's debt. The Company mainly issues fixed-rate debt, which exposes the Company to variability in the fair value of the debt. The Company also issues debt with variable interest rates, which exposes the Company to variability in interest expense. To manage interest rate risk, the Company manages its borrowings in line with liquidity needs, maturity schedule, and currency and interest rate profile. In anticipation of future debt issuances, the Company may use derivative instruments such as forward rate agreements.

During 2023 and 2022, the Company entered into treasury lock agreements to hedge US Treasury benchmark rates related to expected debt issuances in 2023 and 2022, respectively. The treasury locks were designated as cash flow hedging instruments with cumulative gains or losses recorded in Accumulated other comprehensive loss in derivative instruments. In conjunction with the November 1, 2023 debt issuance, the Company settled a notional US\$450 million (\$622 million) of treasury locks, resulting in a cumulative gain of \$97 million. The cash proceeds were included in operating activities in the Consolidated Statements of Cash Flows, and the gain was recorded in Accumulated other comprehensive loss and is being amortized over the term of the corresponding debt and recognized as an adjustment to interest expense on the Consolidated Statements of Income. In conjunction with the August 5, 2022 debt issuance, the Company settled a notional US\$675 million (\$868 million) of treasury locks, resulting in a cumulative loss of \$2 million. This loss was recorded in Accumulated other comprehensive loss and is being amortized over the term of the corresponding debt and recognized as an adjustment to interest expense on the Consolidated Statements of Income. As at December 31, 2023 and 2022, there were no treasury locks outstanding.

Fair value of financial instruments

The financial instruments that the Company measures at fair value on a recurring basis in periods subsequent to initial recognition are categorized into the following levels of the fair value hierarchy based on the degree to which inputs are observable:

- Level 1: Inputs are quoted prices for identical instruments in active markets
- Level 2: Significant inputs (other than quoted prices included in Level 1) are observable
- Level 3: Significant inputs are unobservable

The carrying amounts of Cash and cash equivalents and Restricted cash and cash equivalents approximate fair value. These financial instruments include highly liquid investments purchased three months or less from maturity, for which the fair value is determined by reference to quoted prices in active markets.

The carrying amounts of Accounts receivable, Other current assets and Accounts payable and other approximate fair value due to their short maturity, unless otherwise specified. The fair value of equity investments with readily determinable fair values, included in Intangible assets, goodwill and other, is classified as Level 1 with gains and losses being recorded in Other income within the Consolidated Statements of Income. The fair value of derivative financial instruments, included in Other current assets and Accounts payable and other is classified as Level 2 and is used to manage the Company's exposure to foreign currency risk. The fair value is measured by discounting future cash flows using a discount rate derived from market data for financial instruments subject to similar risks and maturities.

The carrying amount of the Company's debt does not approximate fair value. The fair value is estimated based on quoted market prices for the same or similar debt instruments, as well as discounted cash flows using current interest rates for debt with similar terms, company rating, and remaining maturity. The Company classifies debt as Level 2. As at December 31, 2023, the Company's debt, excluding finance leases, had a carrying amount of \$18,435 million (2022 - \$15,419 million) and a fair value of \$17,844 million (2022 - \$14,137 million). The carrying amount of debt excluding finance leases exceeded the fair value due to an increase in market rates compared to the stated coupon rate.

24 – Segmented information

The Company manages its operations as one business segment over a single network that spans vast geographic distances and territories, with operations in Canada and the U.S. Financial information reported at this level, such as revenues, operating income, and cash flow from operations, is used by the Company's management, including its chief operating decision-maker, in evaluating financial and operational performance and allocating resources across CN's network.

The Company's strategic initiatives, which drive its operational direction, are developed and managed centrally by management and are communicated to its regional activity centers (the Western Region, Eastern Region and U.S. Region). The Company's management is responsible for, among others, CN's marketing strategy, the management of large customer accounts, overall planning and control of infrastructure and rolling stock, the allocation of resources, and other functions such as financial planning, accounting and treasury.

The role of each region is to manage the day-to-day service requirements within their respective territories and control direct costs incurred locally. Such cost control is required to ensure that pre-established efficiency standards set at the corporate level are met. The regions execute the overall corporate strategy and operating plan established by the Company's management, as the regions' management of throughput and control of direct costs does not serve as the platform for the Company's decision-making process. Approximately 85% of the Company's freight revenues are from national accounts for which freight traffic spans North America and touches various commodity groups. As a result, the Company does not manage revenues on a regional basis since a large number of the movements originate in one region and pass through and/or terminate in another region.

The regions also demonstrate common characteristics in each of the following areas:

- each region's sole business activity is the transportation of freight over the Company's extensive rail network;
- the regions service national accounts that extend over the Company's various commodity groups and across its rail network;
- the services offered by the Company stem predominantly from the transportation of freight by rail with the goal of optimizing the rail network as a whole; and
- the Company and its subsidiaries, not its regions, are subject to regulatory regimes in both Canada and the U.S.

For the years ended December 31, 2023, 2022, and 2021, no major customer accounted for more than 10% of total revenues and the largest freight customer represented less than 3%, 4% and 4%, respectively, of total annual freight revenues.

Geographic information

<i>In millions</i>	<i>Year ended December 31,</i>	2023	2022	2021
Revenues				
Canada	\$	11,570	\$ 11,583	\$ 9,955
U.S.		5,258	5,524	4,522
Total revenues	\$	16,828	\$ 17,107	\$ 14,477

<i>In millions</i>	<i>As at December 31,</i>	2023	2022
Long-lived assets			
Canada	\$	25,530	\$ 24,396
U.S.		19,511	19,611
Total long-lived assets ⁽¹⁾	\$	45,041	\$ 44,007

(1) The Company defines long-lived assets as Properties and Operating lease right-of-use assets.

25 – Subsequent event

Normal course issuer bid

On January 23, 2024, the Board of Directors of the Company approved a new NCIB, which allows for the repurchase of up to 32.0 million common shares between February 1, 2024 and January 31, 2025.

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