

2023 annual financial statements and management discussion and analysis



Cover photo:

Imperial employees at the Cold Lake Grand Rapids Phase 1 (GRP1) project. GRP1 will be the first deployment in industry of solvent-assisted steam-assisted gravity drainage (SA-SAGD) technology



Annual financial statements and management's discussion and analysis of financial condition and operating results

For the year ended December 31, 2023

The following annual financial statements and management's discussion and analysis should be read in conjunction with the company's annual report on Form 10-K for the year ended December 31, 2023. Reference to "Item 1A. Risk factors" and specific page numbers in this document indicate the section and page numbers found in the company's annual report on Form 10-K. The company's annual report on Form 10-K, quarterly reports on Form 10-Q and current reports on Form 8-K and amendments to these reports are available online at www.sedarplus.ca, www.sec.gov and the company's website www.imperialoil.ca.

Unless the context otherwise indicates, reference to the "company" or "Imperial" includes Imperial Oil Limited and its subsidiaries, and reference to ExxonMobil includes Exxon Mobil Corporation and its affiliates, as appropriate.

All dollar amounts set forth in this report are in Canadian dollars, except where otherwise indicated. Note that numbers may not add due to rounding.

Forward-looking statements

Statements of future events or conditions in this report, including projections, targets, expectations, estimates, and business plans are forward-looking statements. Similarly, discussion of roadmaps or future plans related to carbon capture, transportation and storage, biofuel, hydrogen, and other future plans to reduce emissions and emission intensity of the company, its affiliates and third parties are dependent on future market factors, such as continued technological progress, policy support and timely rule-making and permitting, and represent forward-looking statements. Forward-looking statements can be identified by words such as believe, anticipate, intend, propose, plan, goal, seek, project, predict, target, estimate, expect, strategy, outlook, schedule, future, continue, likely, may, should, will and similar references to future periods. Forward-looking statements in this report include, but are not limited to, references to being well positioned to participate in substantial investments to develop Canadian energy supplies and reduce commodity price risk; the company's long-term business outlook including demand, supply and energy mix and pathways related to greenhouse gas emissions; the impact of participation in the Pathways alliance; Imperial's company-wide net-zero goal by 2050 (Scope 1 and 2) and the company's greenhouse gas emissions intensity goal for 2030 for its oil sands operations; the extent of ongoing effects of global events affecting supply and demand, including inflation, and the company's ability to mitigate cost impacts in all price environments; upstream focus on optimization within existing assets, cost reduction opportunities and productivity enhancements; the ability of the company's current investment strategy of value and select volume growth to deliver robust returns and support long term growth; continued evaluation of opportunities such as rail shipments and pace of the Aspen project; segment growth, competitive strategies and benefits from an integrated business model; the impact of Downstream strategies and competitive position; the timing, production and emissions reductions from the renewable diesel facility at Strathcona; potential impacts from environmental risks, carbon policy, climate related regulations and biofuels mandates; Chemical competitive position and the benefits from integration with the Sarnia refinery and relationship with ExxonMobil; capital structure and financial strength as a competitive advantage, for risk mitigation and meeting funding requirements; continued evaluation of the company's share purchase program; expected full year capital expenditures of about \$1.7 billion for 2024; earnings sensitivities; risks associated with use of derivative instruments; the impact of any pending litigation, accounting standards and unrecognized tax benefits; the effectiveness of the company's compensation plan in long term performance and mitigating risk; standardized measures of discounted future cash flows and estimates, development, timing and recovery of reserves.

Forward-looking statements are based on the company's current expectations, estimates, projections and assumptions at the time the statements are made. Actual future financial and operating results, including expectations and assumptions concerning future energy demand, supply and mix; commodity prices and foreign exchange rates; production rates, growth and mix across various assets; production life, resource recoveries and reservoir performance; project plans, timing, costs, technical evaluations and capacities, and the company's ability to effectively execute on these plans and operate its assets, including its investment in the renewable diesel complex at Strathcona, the Leming, Grand Rapids and LASER projects at Cold Lake, and autonomous operations at Kearl; the adoption and impact of new facilities or technologies on reductions to GHG emissions intensity, including technologies using solvents to replace energy intensive steam at Cold Lake, the EBRT project, boiler flue gas technology at Kearl, Strathcona renewable diesel, carbon capture and storage including in connection with hydrogen for the renewable diesel project, recovery technologies and efficiency projects, and any changes in the scope, terms, or costs of such projects; that any required support from policymakers and other stakeholders for various new technologies such as carbon capture and storage will be provided; for renewable diesel, the availability and cost of locally-sourced and grown feedstock and the supply of emissions reductions, including the impact of lower carbon fuels; performance of third party service providers; receipt of regulatory and third party approvals in a timely manner, especially with respect to large scale emissions reduction projects; applicable laws and government policies, including with respect to climate change, GHG emissions reductions and low carbon fuels; refinery utilization and product sales; the ability to offset any ongoing inflationary pressures; cash generation, financing sources and capital structure, such as dividends and shareholder returns, including the timing and amounts of share repurchases; progression of COVID-19 and its impacts on Imperial's ability to operate its assets; capital and environmental expenditures; the capture of efficiencies within and between business lines and the ability to maintain near-term cost reductions as ongoing efficiencies; and general market conditions could differ materially depending on a number of factors.

These factors include global, regional or local changes in supply and demand for oil, natural gas, petroleum and petrochemical products, feedstocks and other market factors, economic conditions and seasonal fluctuations and resulting demand, price, differential and margin impacts; political or regulatory events, including changes in law or government policy, applicable royalty rates, and tax laws including taxes on share repurchases;

environmental regulation, including climate change and greenhouse gas regulation and changes to such regulation; environmental risks inherent in oil and gas activities; government policies supporting lower carbon investment opportunities; failure, delay or uncertainty regarding supportive policy and market development for the adoption of emerging lower-emission energy technologies and other technologies that support emissions reductions; the receipt, in a timely manner, of regulatory and third-party approvals, including for new technologies that will help the company meet its lower emissions goals; third-party opposition to company and service provider operations, projects and infrastructure; availability and allocation of capital; availability and performance of third-party service providers; unanticipated technical or operational difficulties; management effectiveness and disaster response preparedness; project management and schedules and timely completion of projects; transportation for accessing markets; commercial negotiations; unexpected technological developments; the results of research programs and new technologies, the ability to bring new technologies to commercial scale on a cost-competitive basis, and the competitiveness of alternative energy and other emission reduction technologies; reservoir analysis and performance; the ability to develop or acquire additional reserves; operational hazards and risks; cybersecurity incidents; currency exchange rates; the occurrence, pace, rate of recovery and effects of public health crises, including the responses from governments; general economic conditions, including inflation and the occurrence and duration of economic recessions or downturns; and other factors discussed in Item 1A Risk factors and Item 7 Management's discussion and analysis of financial condition and results of operations in the company's most recent annual report on Form 10-K.

Forward-looking statements are not guarantees of future performance and involve a number of risks and uncertainties, some that are similar to other oil and gas companies and some that are unique to Imperial Oil Limited. Imperial's actual results may differ materially from those expressed or implied by its forward-looking statements and readers are cautioned not to place undue reliance on them. Imperial undertakes no obligation to update any forward-looking statements contained herein, except as required by applicable law.

Forward-looking and other statements regarding Imperial's environmental, social and other sustainability efforts and aspirations are not an indication that these statements are material to investors or require disclosure in the company's filings with securities regulators. In addition, historical, current and forward-looking environmental, social and sustainability-related statements may be based on standards for measuring progress that are still developing, internal controls and processes that continue to evolve, and assumptions that are subject to change in the future, including future rule-making.

Energy demand models are forward-looking by nature and aim to replicate system dynamics of the global energy system, requiring simplifications. The reference to any scenario in this report, including any potential net-zero scenarios, does not imply Imperial views any particular scenario as likely to occur. In addition, energy demand scenarios require assumptions on a variety of parameters. As such, the outcome of any given scenario using an energy demand model comes with a high degree of uncertainty. Third-party scenarios discussed in this report reflect the modeling assumptions and outputs of their respective authors, not Imperial, and their use by Imperial is not an endorsement by the company of their underlying assumptions, likelihood or probability. Investment decisions are made on the basis of Imperial's separate planning process. Any use of the modeling of a third-party organization within this report does not constitute or imply an endorsement by Imperial of any or all of the positions or activities of such organization.

Actions needed to advance the company's 2030 greenhouse gas emission-reductions plans are incorporated into its medium-term business plans, which are updated annually. The reference case for planning beyond 2030 is based on the ExxonMobil's *Global Outlook* (the Outlook) research and publication. The Outlook is reflective of the existing global policy environment and an assumption of increasing policy stringency and technology improvement to 2050. However, the Outlook does not attempt to project the degree of required future policy and technology advancement and deployment for the world or the company, to meet net zero by 2050. As future policies and technology advancements emerge, they will be incorporated into the Outlook, and the Company's business plans will be updated accordingly. References to projects or opportunities may not reflect investment decisions made by the company. Individual projects or opportunities may advance based on a number of factors, including availability of supportive policy, permitting, technological advancement for cost-effective abatement, insights from the company planning process, and alignment with partners and other stakeholders. Capital investment guidance in lower-emission investments is based on our corporate plan; however, actual investment levels will be subject to the availability of the opportunity set, public policy support, and focused on returns.

The term "project" as used in this report can refer to a variety of different activities and does not necessarily have the same meaning as in any government payment transparency reports.

Financial section

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Financial information (U.S. GAAP)

millions of Canadian dollars	2023	2022	2021
Revenues	50,702	59,413	37,508
Net income (loss):			
Upstream	2,512	3,645	1,395
Downstream	2,301	3,622	895
Chemical	164	204	361
Corporate and other	(88)	(131)	(172)
Net income (loss)	4,889	7,340	2,479
Cash and cash equivalents at year-end	864	3,749	2,153
Total assets at year-end	41,199	43,524	40,782
Long-term debt at year-end	4,011	4,033	5,054
Total debt at year-end	4,132	4,155	5,176
Other long-term obligations at year-end	3,851	3,467	3,897
Shareholders' equity at year-end	22,222	22,413	21,735
Cash flow from operating activities	3,734	10,482	5,476
Per share information (Canadian dollars)			
Net income (loss) per common share - basic	8.51	11.47	3.48
Net income (loss) per common share - diluted	8.49	11.44	3.48
Dividends per common share - declared	1.94	1.46	1.03

Frequently used terms

Listed below are definitions of several of the company's key business and financial performance measures. The definitions are provided to facilitate understanding of the terms and how they are calculated. Certain measures included in this document are not prescribed by U.S. Generally Accepted Accounting Principles (GAAP). These measures constitute "non-GAAP financial measures" under Securities and Exchange Commission Regulation G and Item 10(e) of Regulation S-K, and "specified financial measures" under National Instrument 52-112 Non-GAAP and Other Financial Measures Disclosure of the Canadian Securities Administrators.

Reconciliation of these non-GAAP financial measures to the most comparable GAAP measure, and other information required by these regulations, have been provided. Non-GAAP financial measures and specified financial measures are not standardized financial measures under GAAP and do not have a standardized definition. As such, these measures may not be directly comparable to measures presented by other companies, and should not be considered a substitute for GAAP financial measures.

Capital employed

Capital employed is a non-GAAP financial measure that is a measurement of net investment. When viewed from the perspective of how capital is used by the business, it includes the company's property, plant and equipment and other assets, less liabilities, excluding both short-term and long-term debt. When viewed from the perspective of the sources of capital employed in total for the company, it includes total debt and equity. The most directly comparable financial measure that is disclosed in the financial statements is total assets within the company's Consolidated balance sheet. Both of these views include the company's share of amounts applicable to equity companies, which the company believes should be included to provide a more comprehensive measurement of capital employed.

Reconciliation of capital employed

millions of Canadian dollars	2023	2022	2021
From the Consolidated balance sheet			
Business uses: asset and liability perspective			
Total assets	41,199	43,524	40,782
Less: Total current liabilities excluding notes and loans payable	(6,482)	(8,776)	(5,432)
Total long-term liabilities excluding long-term debt	(8,363)	(8,180)	(8,439)
Add: Imperial's share of equity company debt	21	25	20
Total capital employed	26,375	26,593	26,931
Total company sources: Debt and equity perspective			
Notes and loans payable	121	122	122
Long-term debt	4,011	4,033	5,054
Shareholders' equity	22,222	22,413	21,735
Add: Imperial's share of equity company debt	21	25	20
Total capital employed	26,375	26,593	26,931

Return on average capital employed (ROCE)

ROCE is a non-GAAP ratio. From the perspective of the business segments, ROCE is annual business segment net income divided by average business segment capital employed (an average of the beginning and end-of-year amounts). Segment net income includes Imperial's share of segment net income of equity companies, consistent with the definition used for capital employed, and excludes the cost of financing. Capital employed is a non-GAAP financial measure and is disclosed and reconciled above. The company's total ROCE is net income excluding the after-tax cost of financing divided by total average capital employed. The company has consistently applied its ROCE definition for many years and views it as one of the best measures of historical capital productivity in a capital-intensive, long-term industry. Additional measures, which are more cash flow based, are used to make investment decisions.

Components of return on average capital employed

millions of Canadian dollars	2023	2022	2021
From the Consolidated statement of income			
Net income (loss)	4,889	7,340	2,479
Financing (after-tax) including Imperial's share of equity companies	66	55	40
Net income (loss) excluding financing	4,955	7,395	2,519
Average capital employed	26,484	26,762	26,780
Return on average capital employed (percent) – corporate total	18.7	27.6	9.4

Cash flows from operating activities and asset sales

Cash flows from operating activities and asset sales is a non-GAAP financial measure that is the sum of the net cash provided by operating activities and proceeds from asset sales reported in the Consolidated statement of cash flows. This cash flow reflects the total sources of cash both from operating the company's assets and from the divesting of assets. The most directly comparable financial measure that is disclosed in the financial statements is cash flows from (used in) operating activities within the company's Consolidated statement of cash flows. The company employs a long-standing and regular disciplined review process to ensure that assets are contributing to the company's strategic objectives. Assets are divested when they no longer meet these objectives or are worth considerably more to others. Because of the regular nature of this activity, the company believes it is useful for investors to consider sales proceeds together with cash provided by operating activities when evaluating cash available for investment in the business and financing activities, including shareholder distributions.

Reconciliation of cash flows from (used in) operating activities and asset sales

millions of Canadian dollars	2023	2022	2021
From the Consolidated statement of cash flows			
Cash flows from (used in) operating activities	3,734	10,482	5,476
Proceeds from asset sales	86	904	81
Total cash flows from (used in) operating activities and asset sales	3,820	11,386	5,557

Operating costs

Operating costs is a non-GAAP financial measure that are the costs during the period to produce, manufacture, and otherwise prepare the company's products for sale – including energy costs, staffing and maintenance costs. It excludes the cost of raw materials, taxes and interest expense and are on a before-tax basis. The most directly comparable financial measure that is disclosed in the financial statements is total expenses within the company's Consolidated statement of income. While the company is responsible for all revenue and expense elements of net income, operating costs represent the expenses most directly under the company's control and therefore, are useful in evaluating the company's performance.

Reconciliation of operating costs

millions of Canadian dollars	2023	2022	2021
From the Consolidated statement of income			
Total expenses	44,600	50,186	34,307
Less:			
Purchases of crude oil and products	32,399	37,742	23,174
Federal excise tax and fuel charge	2,402	2,179	1,928
Financing	69	60	54
Subtotal	34,870	39,981	25,156
Imperial's share of equity company expenses	76	71	61
Total operating costs	9,806	10,276	9,212

Components of operating costs

millions of Canadian dollars	2023	2022	2021
From the Consolidated statement of income			
Production and manufacturing	6,879	7,404	6,316
Selling and general	857	882	784
Depreciation and depletion	1,907	1,897	1,977
Non-service pension and postretirement benefit	82	17	42
Exploration	5	5	32
Subtotal	9,730	10,205	9,151
Imperial's share of equity company expenses	76	71	61
Total operating costs	9,806	10,276	9,212

Net income (loss) excluding identified items

Net income (loss) excluding identified items is a non-GAAP financial measure that is total net income (loss) excluding individually significant non-operational events with an absolute corporate total earnings impact of at least \$100 million in a given quarter. The net income (loss) impact of an identified item for an individual segment in a given quarter may be less than \$100 million when the item impacts several segments or several periods. The most directly comparable financial measure that is disclosed in the financial statements is "Net income (loss)" within the company's Consolidated statement of income. Management uses these figures to improve comparability of the underlying business across multiple periods by isolating and removing significant non-operational events from business results. The company believes this view provides investors increased transparency into business results and trends, and provides investors with a view of the business as seen through the eyes of management. Net income (loss) excluding identified items is not meant to be viewed in isolation or as a substitute for net income (loss) as prepared in accordance with U.S. GAAP. All identified items are presented on an after-tax basis.

Reconciliation of net income (loss) excluding identified items

millions of Canadian dollars	2023	2022	2021
From the Consolidated statement of income			
Net income (loss) (U.S. GAAP)	4,889	7,340	2,479
Less identified items included in Net income (loss)			
Gain/(loss) on sale of assets	—	208	—
Subtotal of identified items	—	208	—
Net income (loss) excluding identified items	4,889	7,132	2,479

Management's discussion and analysis of financial condition and results of operations

Overview

The following discussion and analysis of the company's financial results, as well as the accompanying financial statements and related notes to consolidated financial statements to which they refer, are the responsibility of the management of Imperial Oil Limited.

The company's accounting and financial reporting fairly reflect its integrated business model involving exploration for, and production of, crude oil and natural gas; manufacture, trade, transport and sale of crude oil, natural gas, petroleum products, petrochemicals and a variety of specialty products; and pursuit of lower-emission business opportunities including carbon capture and storage, and lower-emission fuels.

Imperial, with its resource base, financial strength, disciplined investment approach and technology portfolio, is well-positioned to participate in substantial investments to develop new Canadian energy supplies. The company's reportable segments are Upstream, Downstream, Chemicals, and Corporate and other. The company's integrated business model generally reduces the company's risk from changes in commodity prices. While commodity prices depend on supply and demand and may be volatile on a short-term basis, the company's investment decisions are grounded on fundamentals reflected in its long-term business outlook, and use a disciplined approach in selecting and pursuing the most attractive investment opportunities. The annual company plan process establishes the economic assumptions used for evaluating investments and sets operating and capital objectives. ExxonMobil's *Global Outlook* (the Outlook), developed annually, is the foundation for the plan assumptions. Price ranges for crude oil, including price differentials, refinery and chemical margins, volumes, operating costs including greenhouse gas emissions pricing, and foreign currency exchange rates are part of the company plan assumptions developed annually. Company plan volume projections are based on individual field production profiles, which are also updated at least annually. Major investment opportunities are evaluated over a range of potential market conditions. All major investments are reappraised to ensure we learn from our investment decisions, and the development and execution of the project. Lessons learned are incorporated into future projects.

The term "project" as used in this report can refer to a variety of different activities and does not necessarily have the same meaning as in any government payment transparency reports.

Business environment

Long-term business outlook

The "Long-term business outlook" is based on Exxon Mobil Corporation's *Global Outlook* (the Outlook), which combined with the near-term pathways, is used to help inform the company's long-term business strategies and investment plans.

The company's business planning is underpinned by a deep understanding of long-term market fundamentals. These fundamentals include supply and demand trends; the scale and variety of energy needs worldwide; capability, practicality and affordability of energy alternatives, including low-carbon solutions; greenhouse gas emission-reduction technologies; and relevant government policies. The Outlook considers these fundamentals to form the basis for the company's long-term business planning, investment decisions, and research programs. The Outlook reflects the company's view of global energy demand and supply through 2050. It is a projection based on current trends in technology, government policies, consumer preferences, geopolitics, and economic development.

The Outlook uses projections and scenarios from reputable third parties such as the International Energy Agency (IEA) and the Intergovernmental Panel on Climate Change (IPCC). Included in the range of these scenarios are: the IPCC likely below 2°C scenarios and three scenarios from the IEA; IEA Stated Policies Scenario (STEPS), which reflects a sector-by-sector assessment of current policy in place or announced by governments; IEA Announced Pledges Scenario (APS), which reflects aspirational government targets met on time and in full; and IEA Net Zero Emissions by 2050 Scenario (NZE), which the IEA describes as extremely challenging, acknowledging that society is not currently on the IEA NZE pathway. No single transition pathway can be reasonably predicted, given the wide range of uncertainties. Key unknowns include yet-to-be-developed government policies, market conditions, and advances in technology that may influence the cost, pace, and potential availability of certain pathways. Scenarios that employ a full complement of technology options are likely to provide the most economically efficient pathways.

Using the company's own experts and third-party sources, the company monitors a variety of signposts that may indicate a potential shift in the energy transition. For example, the regional pace of the transition could be influenced by the cost of new technologies compared to existing or alternative energy sources.

By 2050, the world's population is projected to be around 9.7 billion people, or about 2 billion more than in 2021. Coincident with this population increase, the Outlook projects worldwide economic growth to average approximately 2.5 percent per year, with economic output growing by around 110 percent by 2050 compared to 2021. As economies and populations grow, and as living standards improve for billions of people, the need for energy is expected to continue to rise. Even with significant efficiency gains, global energy demand is projected to rise by almost 15 percent from 2021 to 2050. This increase in energy demand is expected to be driven by developing countries (i.e., those that are not member nations of the Organization for Economic Co-operation and Development (OECD)).

As expanding prosperity drives global energy demand higher, increasing use of energy-efficient technologies and practices, as well as lower-emission products, will continue to help significantly reduce energy consumption and CO₂ emissions per unit of economic output over time. Substantial efficiency gains are likely in all key aspects of the world's economy through 2050, affecting energy requirements for power generation, transportation, industrial applications, and residential and commercial needs.

Under the Outlook, global electricity demand is expected to increase about 80 percent from 2021 to 2050, with developing countries likely to account for over 75 percent of the increase. Consistent with this projection, power generation is expected to remain the largest and fastest growing major segment of global primary energy demand, supported by a wide variety of energy sources. The share of coal-fired generation is expected to decline substantially to approximately 15 percent of the world's electricity in 2050, versus approximately 35 percent in 2021, in part due to policies to improve air quality as well as reduce greenhouse gas emissions to address risks related to climate change. From 2021 to 2050, the amount of electricity supplied using natural gas, nuclear power, and renewables is expected to more than double, accounting for the entire growth in electricity supplies and offsetting the reduction of coal. Electricity from wind and solar is expected to increase more than 550 percent, helping total renewables (including other sources, e.g., hydropower) to account for over 80 percent of the increase in electricity supplies through 2050. Total renewables are expected to reach about 50 percent of global electricity supplies by 2050. Natural gas and nuclear are expected to be about 20 percent and 10 percent, respectively, of global electricity supplies by 2050. Supplies of electricity by energy type will reflect

significant differences across regions reflecting a wide range of factors, including the cost and availability of various energy supplies and policy developments.

Energy for transportation - including cars, trucks, ships, trains, and airplanes - is expected to increase by over 30 percent from 2021 to 2050. Transportation energy demand is expected to account for more than 60 percent of the growth in liquid fuels demand worldwide over this period. Light-duty vehicle demand for liquid fuels is projected to peak by around 2025, and then decline to levels seen in the early-2000s by 2050, as the impact of better fuel economy and significant growth in electric cars, led by China, Europe, and the United States, work to offset growth in the worldwide car fleet of almost 70 percent. By 2050, light-duty vehicles are expected to account for around 15 percent of global liquid fuels demand. During the same time period, nearly all the world's commercial transportation fleets are expected to continue to run on liquid fuels, including biofuels, which are expected to be widely available and offer practical advantages in providing a large quantity of energy in small volumes.

Almost half of the world's energy use is dedicated to industrial activity. As the global middle class continues to grow, demand for durable products, appliances, and consumable goods will increase. Industry uses energy products both as a fuel and as a feedstock for chemicals, asphalt, lubricants, waxes, and other specialty products. The Outlook anticipates technology advances, as well as the increasing shift toward cleaner forms of energy, such as electricity and natural gas, with coal declining. Demand for oil will continue to grow as a feedstock for industry.

As populations grow and prosperity rises, more energy will be needed to power homes, offices, schools, shopping centers, hospitals, etc. Combined residential and commercial energy demand is projected to rise by around 15 percent through 2050. Led by the growing economies of developing nations, average worldwide household electricity use will rise about 75 percent between 2021 and 2050.

Liquid fuels provide the largest share of global energy supplies today reflecting broad-based availability, affordability, ease of transportation, and fitness as a practical solution to meet a wide variety of needs. By 2050, global demand for liquid fuels is projected to grow to approximately 110 million oil-equivalent barrels per day, an increase of about 15 percent from 2021. The non-OECD share of global liquid fuels demand is expected to increase to nearly 70 percent by 2050, as liquid fuels demand in the OECD is expected to decline by more than 20 percent. Much of the global liquid fuels demand today is met by crude production from conventional sources; these supplies will remain important, and significant development activity is expected to offset much of the natural declines from these fields. At the same time, a variety of emerging supply sources - including tight oil, deepwater, oil sands, natural gas liquids, and biofuels - are expected to grow to help meet rising demand. Timely investments will remain critical to meeting global needs with reliable and affordable supplies.

Natural gas is a lower-emission, versatile and practical fuel for a wide variety of applications. It is expected to grow the most of any primary energy type from 2021 to 2050, meeting about 40 percent of global energy demand growth. Global natural gas demand is expected to rise nearly 25 percent from 2021 to 2050, with greater than 75 percent of that increase coming from the Asia Pacific region. Significant growth in supplies of unconventional gas - the natural gas found in shale and other tight rock formations - will help meet these needs. In total, about 50 percent of the growth in natural gas supplies is expected to come from unconventional sources. At the same time, conventionally-produced natural gas is likely to remain the cornerstone of global supply, meeting around two-thirds of worldwide demand in 2050. Liquefied natural gas (LNG) trade will expand significantly, meeting about two thirds of the increase in global demand growth, with much of this supply expected to help meet rising demand in Asia Pacific.

The world's energy mix is highly diverse and will remain so through 2050. Oil is expected to continue as the largest source of energy with its share remaining close to 30 percent in 2050. Coal and natural gas are the next largest sources of energy today, with the share of natural gas growing to more than 25 percent by 2050, while the share of coal falls to about half that of natural gas. Nuclear power is projected to grow, as many nations are likely to expand nuclear capacity to address rising electricity needs as well as energy security and environmental issues. Total renewable energy is expected to exceed 20 percent of global energy by 2050, with other renewables (e.g., biomass, hydropower, geothermal) contributing a combined share of more than 10 percent. Total energy supplied from wind and solar is expected to increase rapidly, growing over 500 percent from 2021 to 2050, when they are projected to be around 10 percent of the world energy mix.

Decarbonization of industrial activities will require a suite of nascent or future lower-carbon technologies and supporting policies. Lower-emission fuels, hydrogen-based fuels, and carbon capture and storage are three key

lower-carbon solutions needed to support a lower-emission future, in addition to wind and solar. Along with electrification, lower-emission fuels are expected to play an important role in decarbonization of the transportation sector, particularly in hard-to-decarbonize areas, such as aviation. Low-carbon hydrogen will be a key enabler replacing traditional furnace fuel to decarbonize the industrial sector. Hydrogen and hydrogen-based fuels like ammonia are also expected to make inroads into commercial transportation as technology improves to lower its cost and policy develops to support the needed infrastructure development. Carbon capture and storage on its own, or in combination with hydrogen production, is among the few proven technologies that could enable CO₂ emission reductions from high-emitting and hard-to-decarbonize sectors such as power generation and heavy industries, including manufacturing, refining, and petrochemicals.

To meet projected demand under the Outlook and the IEA's STEPS, the company anticipates that the world's available oil and gas resource base will grow, not only from new discoveries, but also from increases in previously discovered fields. Technology will underpin these increases. The investments to develop and supply resources to meet global demand through 2050 will be significant and would be needed to meet even rapidly declining demand for oil and gas envisioned in aggressive decarbonization scenarios.

International accords and underlying regional and national regulations covering greenhouse gas emissions continue to evolve with uncertain timing and outcome, making it difficult to predict their business impact. The company's estimates of potential costs related to greenhouse gas emissions align with applicable provincial and federal regulations. Additionally, the company uses the Outlook as a foundation for estimating energy supply and demand requirements from various energy sources and uses, and the Outlook takes into account policies established to reduce energy related greenhouse gas emissions. The climate accord reached at the 2015 Conference of the Parties (COP 21) in Paris set many new goals, and many related policies are still emerging. The Outlook reflects an environment with increasingly stringent climate policies and is consistent with the successful achievement of the global aggregation of Nationally Determined Contributions (NDCs), submitted by the nations that are signatories to the Paris Agreement, as available at the end of 2022. The Outlook assumes success of these NDCs, despite the 2023 United Nations Environment Programme (UNEP) Emissions Gap Report projecting that the G20 members will fall short of their NDCs. The Outlook seeks to identify potential impacts of climate related government policies, which often target specific sectors. For purposes of the Outlook, a proxy cost on energy-related CO₂ emissions is assumed, based on regional considerations and relative levels of economic development, and by 2050, reaches up to \$150 USD per metric ton for OECD nations and up to \$100 USD per metric ton for non-OECD nations. China and other leading non-OECD nations are expected to trail OECD policy initiatives. Nevertheless, as people and nations look for ways to reduce risks of global climate change, they will continue to need practical solutions that do not jeopardize the affordability or reliability of the energy they need. The company continues to monitor the updates to the NDCs that nations provided around COP 28 in Dubai in 2023, as well as other policy developments in light of net-zero ambitions formulated by some nations, including Canada.

The information provided in the Outlook includes ExxonMobil's internal estimates and projections based upon internal data and analyses, as well as publicly available information from external sources including the International Energy Agency.

Progress reducing emissions

Practical solutions to the world's energy and climate challenges will benefit from market competition in addition to well-informed, well-designed and transparent policy approaches that carefully weigh costs and benefits. Such policies are likely to help manage the risks of climate change while also enabling societies to pursue other high priority goals around the world – including clean air and water, access to reliable and affordable energy, and economic progress for all people. The company encourages sound policy solutions that reduce climate-related risks across the economy at the lowest societal cost. All practical and economically viable energy sources will need to be pursued to continue meeting global energy demand, recognizing the scale and variety of worldwide energy needs, as well as the importance of expanding access to modern energy to promote better standards of living for billions of people.

The company and its industry peers launched the Oil Sands Pathways to Net Zero alliance in 2021, with the goal of working collectively with the federal and Alberta governments to achieve net-zero greenhouse gas emissions from oil sands operations by 2050 to help Canada meet its climate goals.

As part of the company's efforts to provide solutions that lower the greenhouse gas emissions intensity of its operations and provide lower life-cycle emissions products to customers, the company has announced a company-wide goal to achieve net zero emissions (Scope 1 and 2) by 2050 in its operated assets through collaboration with government and industry partners. Successful technology development and supportive fiscal

and regulatory frameworks will be needed to achieve this goal. This work builds on the company's previously announced net-zero goal for operated oil sands as part of the Pathways Alliance initiative, as well as the company's emission intensity reduction goal of 30 percent by 2030 for operated oil sands facilities when compared to 2016 levels. The company plans to achieve its net zero goal by applying oil sands recovery technologies that use less steam, implementing carbon capture and storage and implementing efficiency projects including the use of lower carbon fuels at its operations.

Recent business environment

Prior to the COVID-19 pandemic, many companies in the industry invested below the levels needed to maintain or increase production capacity to meet anticipated demand. During the COVID-19 pandemic, this decline in investments accelerated as industry revenue collapsed, resulting in underinvestment and supply tightness as demand for petroleum and petrochemical products recovered. These reductions, along with supply chain constraints and a continuation of demand recovery, led to a steady increase in oil and natural gas prices and refining margins through 2022.

Energy markets began to normalize in 2023, down from their 2022 highs. During the first half of 2023, the price of crude oil declined, impacted by higher inventory levels. In the second half, crude oil prices increased modestly from strong demand, and ongoing actions by OPEC+ oil producers to limit supply. In addition, the Canadian WTI/WCS spread began to weaken in the fourth quarter, but remained in line with 2022 on an annual basis. Throughout 2023, strong demand for gasoline and distillate combined with low inventories kept refining margins strong, but short of 2022 levels on an annual basis. In the fourth quarter, refining margins dropped due to higher inventory and lower seasonal demand.

The general rate of inflation in Canada and across many other major countries peaked in 2022, rising from already elevated levels in 2021, due to additional impacts on energy and other commodities from the Russia-Ukraine conflict. Inflation moderated in 2023 as major central banks tightened monetary policy aggressively and global GDP growth slowed. In Canada, it currently remains higher than the Bank of Canada's inflation target. Meanwhile, there are significant variations across OECD and non-OECD in the pace of change in inflation. The company closely monitors market trends and works to mitigate both operating and capital cost impacts in all price environments.

Business results

Consolidated

millions of Canadian dollars	2023	2022	2021
Net income (loss) (U.S. GAAP)	4,889	7,340	2,479
Identified items ¹ included in Net income (loss)			
Gain/(loss) on sale of assets	—	208	—
Subtotal of identified items ¹	—	208	—
Net income (loss) excluding identified items ¹	4,889	7,132	2,479

2023

Net income in 2023 was \$4,889 million, or \$8.49 per share on a diluted basis, compared to \$7,340 million, or \$11.44 per share in 2022.

2022

Net income in 2022 was \$7,340 million, or \$11.44 per share on a diluted basis, up from \$2,479 million, or \$3.48 per share in 2021. Results include favourable identified items¹ of \$208 million after tax, related to the company's gain on the sale of interests in XTO Energy Canada.

¹ non-GAAP financial measure - see "Frequently used terms" section for definition and reconciliation.

Upstream

Overview

The company produces crude oil and natural gas for sale predominantly into North American markets. The company's Upstream business strategies guide the company's exploration, development, production, research and gas marketing activities. These strategies include improving asset reliability, accelerating development and application of high impact technologies, maximizing value by capturing new business opportunities and managing the existing portfolio, as well as pursuing sustainable improvements in organizational efficiency and effectiveness. These strategies are underpinned by a relentless focus on operations integrity, commitment to innovative technologies, disciplined approach to investing and cost management, development of employees and investment in the communities within which the company operates.

The company has a significant oil and gas resource base and a large inventory of potential projects. The company's current investment strategy is to invest for value and select volume growth, with focus on optimization within existing assets, cost reduction opportunities and productivity enhancements that aim to deliver robust returns at a wide range of prices. The company also continues to evaluate opportunities to support long-term growth. Although actual volumes will vary from year to year, the focus is on value-add, long-term growth opportunities within the context of the factors described in "Item 1A. Risk factors". The company continually evaluates opportunities, including crude shipments by rail and the pace of the development of its Aspen in-situ oil sands project, as economically justified.

Prices for most of the company's crude oil sold are referenced to Western Canada Select (WCS) and West Texas Intermediate (WTI) oil markets. Additionally, the market price for WCS is typically lower than light and medium grades of oil, and price differentials between WCS and WTI can fluctuate.

The company believes prices over the long term will be driven by market supply and demand, with the demand side largely being a function of general economic activity, alternative energy sources, levels of prosperity, technology advancements, consumer preference and government policies. On the supply side, prices may be significantly impacted by political events, logistics constraints, the actions of OPEC, governments, alternative energy sources, and other factors. To manage the risks associated with price, the company tests the resiliency of its annual plans and all major investments across a range of price scenarios.

Key events

Upstream assets demonstrated strong operational performance in 2023. The company continued to benefit from its actions implemented in prior years to manage the cost structure and improve the reliability of its assets, enabling the Upstream to capture significant value.

Upstream full-year production averaged 413,000 gross oil-equivalent barrels per day.

At Kearl, gross production was about 270,000 barrels per day (191,000 barrels Imperial's share), up 28,000 barrels per day (19,000 barrels Imperial's share) compared to 2022, as a result of improved reliability, plant capacity utilization, and mine equipment productivity.

At Cold Lake, annual production averaged 135,000 gross oil-equivalent barrels per day.

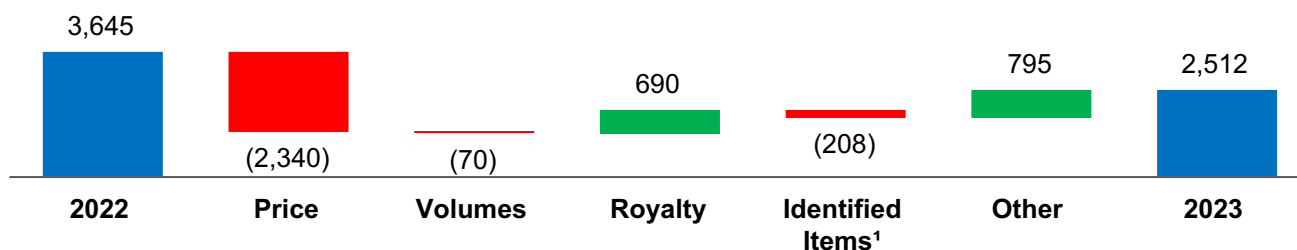
At Syncrude, annual production averaged 76,000 gross oil-equivalent barrels per day.

As described in more detail in "Item 1A. Risk factors", environmental risks and climate related regulations could have negative impacts on the upstream business.

Results of operations

2023 Net income (loss) factor analysis

millions of Canadian dollars



Price – Lower bitumen realizations were primarily driven by lower marker prices. Average bitumen realizations decreased by \$17.25 per barrel, generally in line with WCS, and synthetic crude oil realizations decreased by \$19.89 per barrel, generally in line with WTI.

Volumes – Lower volumes were primarily driven by steam cycle timing at Cold Lake, and the absence of XTO Energy Canada production, partially offset by improved reliability, plant capacity utilization, and mine equipment productivity at Kearl.

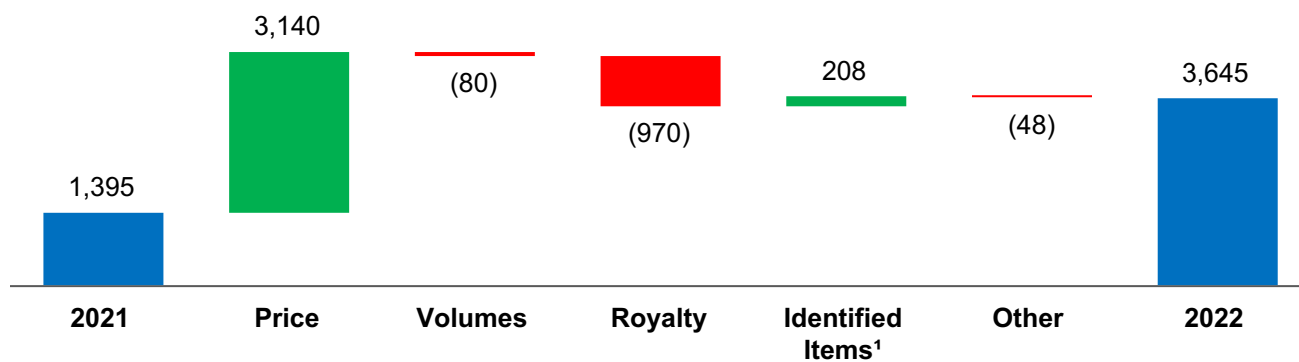
Royalty – Lower royalties were primarily driven by weakened commodity prices.

Identified Items¹ – Prior year results included favourable identified items¹ related to the company's gain on the sale of interests in XTO Energy Canada.

Other – Includes favourable foreign exchange impacts of about \$380 million, and lower operating expenses of about \$380 million, primarily due to lower energy prices.

2022 Net income (loss) factor analysis

millions of Canadian dollars



Price – Higher realizations were generally in line with increases in marker prices, driven primarily by increased demand. Average bitumen realizations increased by \$26.76 per barrel, generally in line with WCS, and synthetic crude oil realizations increased by \$43.85 per barrel.

Volumes – Lower volumes were primarily the result of downtime at Kearl in the first half of the year, partly offset by higher production at Syncrude and Cold Lake.

Royalty – Higher royalties primarily driven by improved commodity prices.

Identified items¹ – Results include favourable identified items¹ related to the company's gain on the sale of interests in XTO Energy Canada.

Other – Higher operating expenses of about \$500 million, primarily from higher energy prices, partially offset by favourable foreign exchange impacts of about \$270 million, and higher electricity sales at Cold Lake of about \$60 million due to increased prices.

¹ non-GAAP financial measure - see "Frequently used terms" section for definition and reconciliation.

Marker prices and average realizations

Canadian dollars, unless otherwise noted	2023	2022	2021
West Texas Intermediate (US\$ per barrel)	77.60	94.36	68.05
Western Canada Select (US\$ per barrel)	58.97	76.28	54.96
WTI/WCS Spread (US\$ per barrel)	18.63	18.08	13.09
Bitumen (per barrel)	67.42	84.67	57.91
Synthetic crude oil (per barrel)	105.57	125.46	81.61
Conventional crude oil (per barrel)	59.30	97.45	59.84
Natural gas liquids (per barrel)	—	64.92	35.87
Natural gas (per thousand cubic feet)	2.58	5.69	3.83
Average foreign exchange rate (US\$)	0.74	0.77	0.80

Crude oil and natural gas liquids (NGL) - production and sales (a)

thousands of barrels per day	2023		2022		2021	
	gross	net	gross	net	gross	net
Bitumen	326	283	316	263	326	292
Synthetic crude oil (b)	76	67	77	63	71	62
Conventional crude oil	5	5	8	8	10	9
Total crude oil production	407	355	401	334	407	363
NGLs available for sale	—	—	1	1	1	1
Total crude oil and NGL production	407	355	402	335	408	364
Bitumen sales, including diluent (c)	442		424		451	
NGL sales (d)	—		1		—	

Natural gas - production and production available for sale (a)

millions of cubic feet per day	2023		2022		2021	
	gross	net	gross	net	gross	net
Production (e) (f)	33	32	85	83	120	115
Production available for sale (g)		11		50		81

- (a) Volume per day metrics are calculated by dividing the volume for the period by the number of calendar days in the period. Gross production is the company's share of production (excluding purchases) before deduction of the mineral owners' or governments' share or both.
- (b) The company's synthetic crude oil production volumes were from the company's share of production volumes in the Syncrude joint venture and include immaterial amounts of bitumen and other products exported to the operator's facilities using an existing interconnect pipeline.
- (c) Diluent is natural gas condensate or other light hydrocarbons added to crude bitumen to facilitate transportation to market by pipeline and rail.
- (d) 2021 NGL sales round to 0.
- (e) Gross production of natural gas includes amounts used for internal consumption with the exception of the amounts re-injected.
- (f) Net production is gross production less the mineral owners' or governments' share or both. Net production reported in the above table is consistent with production quantities in the net proved reserves disclosure.
- (g) Includes sales of the company's share of net production and excludes amounts used for internal consumption.

2023

Higher bitumen production was mainly attributable to Kearl, and primarily driven by improved reliability, plant capacity utilization, and mine equipment productivity.

2022

Lower bitumen production was mainly attributable to Kearl, and primarily a result of downtime in the first half of the year.

Downstream

Overview

The company's Downstream serves predominantly Canadian markets with refining, trading, logistics and marketing activities. The company's Downstream business strategies competitively position the company across a range of market conditions. These strategies include targeting industry-leading performance in reliability, safety and operations integrity, as well as maximizing value from advanced technologies, capitalizing on integration across the company's businesses, selectively investing for resilient and advantaged returns, operating efficiently and effectively, and providing quality, valued and differentiated products and services to customers.

The company owns and operates three refineries in Canada with aggregate distillation capacity of 433,000 barrels per day. Refining margins are largely driven by differences in commodity prices and are a function of the difference between what a refinery pays for its raw materials (primarily crude oil) and the market prices for the range of products produced (primarily gasoline, heating oil, diesel oil, jet fuel, fuel oil and asphalt). Crude oil and many products are widely traded with published prices, including those quoted on the New York Mercantile Exchange. Prices for these commodities are determined by the global and regional marketplaces and are influenced by many factors, including global and regional supply / demand balances, inventory levels, industry refinery operations, import / export balances, currency fluctuations, seasonal demand, weather and political considerations. While industry refining margins significantly impact earnings, strong operations performance, product mix optimization, and disciplined cost control are also critical to the company's strong financial performance. The company's integration across the value chain, from refining to marketing, enhances overall value across the fuels business.

Key events

Refining margins remained strong in 2023, driven by strong demand for gasoline and distillate due to relatively low inventory levels, but short of 2022 levels on an annual basis. The company continues to closely monitor industry and global economic conditions.

In January 2023, the company fully funded the Strathcona renewable diesel project, the largest such facility in Canada, located at Strathcona refinery. The facility will use low-carbon hydrogen, locally sourced and grown feedstocks and the company's own proprietary catalyst to produce more than one billion litres of renewable diesel annually, and could help reduce greenhouse gas emissions. Facility construction commenced during the year, and the project remains on-plan with renewable diesel production expected to begin in 2025.

As described in more detail in "Item 1A. Risk factors", proposed carbon policy and other climate related regulations, as well as continued biofuels mandates, could have negative impacts on the Downstream business.

The company supplies petroleum products through Esso and Mobil-branded sites and independent marketers. At the end of 2023, there were about 2,500 sites operating under a branded wholesaler model, in alignment with Esso and Mobil brand standards, whereby the company supplies fuel to independent third parties.

Results of operations

2023 Net income (loss) factor analysis

millions of Canadian dollars

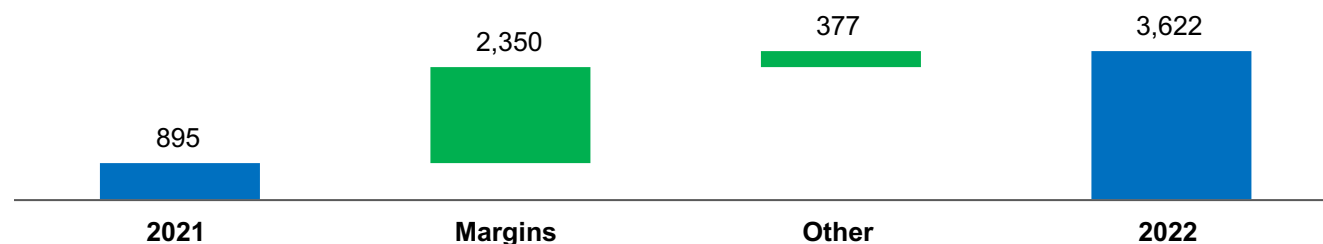


Margins – Lower margins primarily reflect weaker market conditions.

Other – Higher turnaround impacts of about \$340 million, associated with the planned turnaround activities at the Strathcona and Sarnia refineries, partially offset by favourable foreign exchange impacts of about \$210 million, improved volumes of about \$50 million, and lower operating expenses of about \$50 million, primarily due to lower energy prices.

2022 Net income (loss) factor analysis

millions of Canadian dollars



Margins – Higher margins primarily reflect improved market conditions.

Other – Lower turnaround impacts of about \$140 million, reflecting the absence of turnaround activities at Strathcona refinery, improved volumes of about \$130 million, favourable foreign exchange impacts of about \$120 million, and absence of the prior year unfavourable out-of-period inventory adjustment of \$74 million, partially offset by higher operating expenses of about \$190 million.

Refinery utilization

thousands of barrels per day (a)	2023	2022	2021
Total refinery throughput (b)	407	418	379
Rated capacity at December 31 (c)	433	433	428
Utilization of total refinery capacity (percent)	94	98	89

- (a) Volume per day metrics are calculated by dividing the volume for the period by the number of calendar days in the period.
 (b) Refinery throughput is the volume of crude oil and feedstocks that is processed in the refinery atmospheric distillation units.
 (c) Refining capacity data is based on 100 percent of rated refinery process unit stream-day capacities to process inputs to atmospheric distillation units under normal operating conditions, less the impact of shutdowns for regular repair and maintenance activities, averaged over an extended period of time.

2023

Lower refinery throughput in 2023 reflects the impact of planned turnaround activities at Strathcona and Sarnia refineries.

2022

Improved refinery throughput in 2022 was primarily driven by increased demand and reduced turnaround activity.

Petroleum product sales

thousands of barrels per day (a)	2023	2022	2021
Gasolines	228	229	224
Heating, diesel and jet fuels	176	176	160
Lube oils and other products	43	47	45
Heavy fuel oils	24	23	27
Net petroleum product sales	471	475	456

- (a) Volume per day metrics are calculated by dividing the volume for the period by the number of calendar days in the period.

2023

Lower petroleum product sales in 2023 were primarily driven by lower wholesale customer volume.

2022

Improved petroleum product sales in 2022 primarily reflects increased demand.

Chemical

Overview

North America continued to benefit from abundant supplies of natural gas and gas liquids, providing both low cost energy and feedstock for steam crackers.

Key events

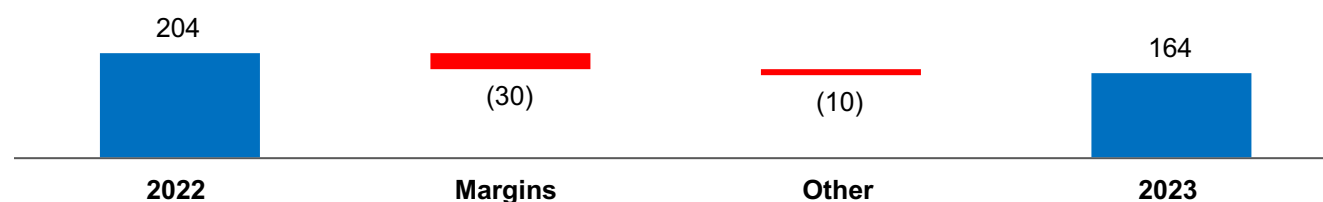
In 2023, margins were adversely impacted by increased supply of polyethylene. Sales volumes decreased primarily due to planned maintenance activities.

The company maintains a competitive advantage through continued operational excellence, consistent product quality, investment and cost discipline, and integration of its chemical plant in Sarnia with the refinery. The company also benefits from its relationship with ExxonMobil's North American chemical businesses, enabling Imperial to maintain a leadership position in its key market segments.

Results of operations

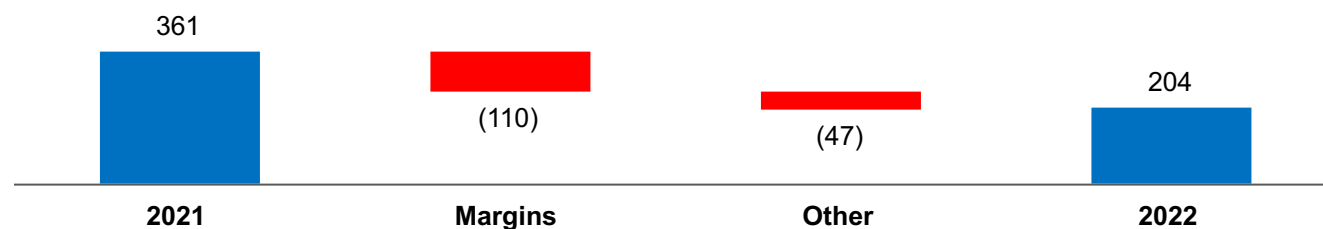
2023 Net income (loss) factor analysis

millions of Canadian dollars



2022 Net income (loss) factor analysis

millions of Canadian dollars



Margins – Lower margins primarily reflect weaker industry polyethylene margins.

Sales

thousands of tonnes	2023	2022	2021
Total petrochemical sales	820	842	831

Corporate and other

millions of Canadian dollars	2023	2022	2021
Net income (loss)	(88)	(131)	(172)

Liquidity and capital resources

Sources and uses of cash

The company issues long-term debt from time to time and maintains a commercial paper program. However, internally generated funds cover the majority of its financial requirements. Cash that may be temporarily surplus to the company's immediate needs is carefully managed through counterparty quality and investment guidelines to ensure that it is secure and readily available to meet the company's cash requirements and to optimize returns.

Cash flows from operating activities are highly dependent on crude oil and natural gas prices, as well as petroleum and chemical product margins. In addition, to provide for cash flow in future periods, the company needs to continually find and develop new resources, and continue to develop and apply new technologies to existing fields in order to maintain or increase production.

The company's financial strength enables it to make large, long-term capital expenditures. The company's portfolio of development opportunities and the complementary nature of its business segments help mitigate the overall risks for the company and its cash flows. Further, due to its financial strength, debt capacity and portfolio of opportunities, the risk associated with delay of any single project would not have a significant impact on the company's liquidity or ability to generate sufficient cash flows for its operations and fixed commitments.

Funding of registered retirement plans complies with federal and provincial pension regulations, and the company makes contributions to the plans based on an independent actuarial valuation completed at least once every three years depending on funding status. The most recent valuation of the company's registered retirement plans was completed as at December 31, 2022. The company contributed \$148 million to the registered retirement plans in 2023. Future funding requirements are not expected to affect the company's existing capital investment plans or its ability to pursue new investment opportunities.

millions of Canadian dollars	2023	2022	2021
Cash flows from (used in):			
Operating activities	3,734	10,482	5,476
Investing activities	(1,694)	(618)	(1,012)
Financing activities	(4,925)	(8,268)	(3,082)
Increase (decrease) in cash and cash equivalents	(2,885)	1,596	1,382
Cash and cash equivalents at end of year	864	3,749	2,153

Cash flows from operating activities

2023

Cash flows from operating activities primarily reflect unfavourable working capital impacts, including an income tax catch-up payment of \$2.1 billion, as well as lower Upstream realizations and Downstream margins.

2022

Cash flow generated from operating activities primarily reflects higher Upstream realizations, improved Downstream margins, and favourable working capital impacts.

Cash flows used in investing activities

2023

Cash flows used in investing activities primarily reflect the absence of proceeds from the sale of interests in XTO Energy Canada, and higher additions to property, plant and equipment.

2022

Cash flow used in investing activities primarily reflects higher additions to property, plant and equipment, which were partially offset by proceeds from the sale of interests in XTO Energy Canada.

Cash flows used in financing activities

2023

At the end of 2023, total debt outstanding was \$4,132 million, compared with \$4,155 million at the end of 2022.

During the fourth quarter of 2023, the company extended the maturity dates of its two existing \$250 million committed lines of credit to November 2024 and November 2025, respectively.

The company has not drawn on any of its outstanding \$500 million of available credit facilities.

2022

At the end of 2022, total debt outstanding was \$4,155 million, compared with \$5,176 million at the end of 2021.

During the third quarter of 2022, the company decreased its long-term debt by \$1 billion by partially repaying an existing facility with an affiliated company of ExxonMobil.

During the second quarter of 2022, the company reduced its existing \$500 million committed long-term line of credit to \$250 million and extended the maturity date to June 30, 2023. Subsequently in the fourth quarter of 2022, this committed long-term line of credit was cancelled in full. The company also extended one of its \$250 million committed long-term lines of credit to June 30, 2024.

In November 2022, the company extended the maturity date of an existing \$250 million committed short-term line of credit to November 2023.

The company has not drawn on any of its outstanding \$500 million of available credit facilities.

Share repurchases

millions of Canadian dollars, unless noted	2023	2022	2021
Share repurchases (a)	3,800	6,395	2,245
Number of shares purchased (millions) (a)	48.3	93.9	56.0

(a) Share repurchases were made under the company's normal course issuer bid program for the periods disclosed. Substantial issuer bids were undertaken and commenced on May 6, 2022 (expired on June 10, 2022), November 4, 2022 (expired on December 9, 2022), and November 3, 2023 (expired on December 8, 2023). Includes shares purchased from Exxon Mobil Corporation concurrent with, but outside of, the normal course issuer bid, and by way of a proportionate tender under the company's substantial issuer bids.

2023

On June 27, 2023, the company announced that it had received final approval from the Toronto Stock Exchange for a new normal course issuer bid to continue its then existing share purchase program. The program enabled the company to purchase up to a maximum of 29,207,635 common shares during the period June 29, 2023 to June 28, 2024. The program completed on October 19, 2023 as a result of the company purchasing the maximum allowable number of shares under the program.

On November 3, 2023, the company commenced a substantial issuer bid pursuant to which it offered to purchase for cancellation up to \$1.5 billion of its common shares through a modified Dutch auction and proportionate tender offer. The substantial issuer bid was completed on December 13, 2023, with the company taking up and paying for 19,108,280 common shares at a price of \$78.50 per share, for an aggregate purchase of \$1.5 billion and 3.4 percent of Imperial's issued and outstanding shares at the close of business on October 30, 2023. This included 13,299,349 shares purchased from Exxon Mobil Corporation by way of a proportionate tender to maintain its ownership percentage at approximately 69.6 percent.

2022

On June 27, 2022, the company announced that it had received final approval from the Toronto Stock Exchange for a new normal course issuer bid. The program enabled the company to purchase up to a maximum of 31,833,809 common shares during the period June 29, 2022 to June 28, 2023. The program completed on October 21, 2022 as a result of the company purchasing the maximum allowable number of shares under the program.

On May 6, 2022, the company commenced a substantial issuer bid pursuant to which it offered to purchase for cancellation up to \$2.5 billion of its common shares through a modified Dutch auction and proportionate tender offer. The substantial issuer bid was completed on June 15, 2022, with the company taking up and paying for 32,467,532 common shares at a price of \$77.00 per share, for an aggregate purchase of \$2.5 billion and 4.9 percent of Imperial's issued and outstanding shares at the close of business on May 2, 2022. This included 22,597,379 shares purchased from Exxon Mobil Corporation by way of a proportionate tender to maintain its ownership percentage at approximately 69.6 percent.

On November 4, 2022, the company commenced a substantial issuer bid pursuant to which it offered to purchase for cancellation up to \$1.5 billion of its common shares through a modified Dutch auction and proportionate tender offer. The substantial issuer bid was completed on December 14, 2022, with the company taking up and paying for 20,689,655 common shares at a price of \$72.50 per share, for an aggregate purchase of \$1.5 billion and 3.4 percent of Imperial's issued and outstanding shares at the close of business on October 31, 2022. This included 14,399,985 shares purchased from Exxon Mobil Corporation by way of a proportionate tender to maintain its ownership percentage at approximately 69.6 percent.

Dividends

millions of Canadian dollars, unless noted	2023	2022	2021
Dividends paid	1,103	851	706
Per share dividend paid (dollars)	1.88	1.29	0.98

Financial strength

The table below shows the company's consolidated debt-to-capital ratio. The data demonstrates the company's creditworthiness:

percent	2023	2022	2021
At December 31			
Debt to capital (a)	16	16	19

(a) Debt, defined as the sum of "Notes and loans payable" and "Long-term debt" on the Consolidated balance sheet, divided by capital, defined as the sum of debt and "Total shareholders' equity" on the Consolidated balance sheet.

Debt-related interest incurred in 2023, before capitalization of interest, was \$203 million, up from \$111 million in 2022. The weighted-average interest rate on the company's debt was 4.9 percent in 2023, up from 2.2 percent in 2022.

The company's financial strength represents a competitive advantage of strategic importance providing it the opportunity to readily access capital markets across a range of market conditions and enables the company to take on large, long-term capital commitments in the pursuit of maximizing shareholder value.

Contractual obligations

The company has contractual obligations involving commitments to third parties that impact its liquidity and capital resource needs. These contractual obligations are primarily for leases, debt, asset retirement obligations, pension and other postretirement benefits, other long-term obligations, and firm capital commitments. Further information on this topic can be found in notes 4, 5, 13 and 14 to the consolidated financial statements.

Other long-term purchase agreements are commitments that are non-cancellable, or cancellable only under certain conditions, as well as long-term commitments, other than unconditional purchase obligations. They include primarily transportation services agreements, raw material supply and community benefits agreements. The total obligation at year-end 2023 was \$11.8 billion, of which \$728 million is due in 2024, and \$1,131 million is due in 2025.

Litigation and other contingencies

As discussed in note 9 to the consolidated financial statements, a variety of claims have been made against Imperial and its subsidiaries. Based on a consideration of all relevant facts and circumstances, the company does not believe the ultimate outcome of any currently pending lawsuits against the company will have a material adverse effect on the company's operations, financial condition, or financial statements taken as a whole.

Additionally, as discussed in note 9, Imperial was contingently liable at December 31, 2023, for guarantees relating to performance under contracts. These guarantees do not have a material effect on the company's operations, financial condition, or financial statements taken as a whole.

There are no events or uncertainties beyond those already included in reported financial information that would indicate a material change in future operating results or financial condition.

Capital and exploration expenditures

Capital and exploration expenditures represent the combined total of additions at cost to property, plant and equipment, additions to finance leases, additional investments and acquisitions; exploration expenses on a before-tax basis from the Consolidated statement of income; and the company's share of similar costs for equity companies. Capital and exploration expenditures exclude the purchase of carbon emission credits. While the company's management is responsible for all investments and elements of net income, particular focus is placed on managing the controllable aspects of this group of expenditures.

millions of Canadian dollars	2023	2022
Upstream (a)	1,108	1,128
Downstream	472	295
Chemical	23	10
Corporate and other	175	57
Total	1,778	1,490

(a) Exploration expenses included.

For the Upstream segment, capital and exploration expenditures were primarily related to sustaining activity in support of the company's oil sands and in-situ assets.

For the Downstream segment, capital expenditures were primarily for progressing the Strathcona renewable diesel facility as well as other refinery and distribution projects to improve environmental performance, reliability, and energy efficiency.

Total capital and exploration expenditures are expected to be approximately \$1.7 billion in 2024.

Expected capital and exploration expenditures for 2024 includes firm capital commitments of \$686 million for the construction and purchase of fixed assets and other permanent investments. An additional \$65 million of firm capital commitments have been made for years 2025 and beyond.

Actual spending could vary depending on the progress of individual projects.

Market risks

Crude oil, natural gas, petroleum product and chemical prices have fluctuated in response to changing market forces. The impacts of these price fluctuations on earnings from Upstream, Downstream and Chemical operations have varied.

The company's earnings are influenced by North American crude oil benchmark prices as well as changes in the differentials between these benchmarks and western Canadian prices for light and heavy crude oil. The company's integrated business model reduces its risk from changes in commodity prices. For instance, when differentials between North American crude benchmarks and western Canadian prices widen, the company is able to mitigate the impact of widening differentials on the Upstream through integration with Downstream investments in refineries, pipeline commitments and the Edmonton rail terminal.

In the competitive downstream and chemical environments, earnings are primarily determined by margin capture rather than absolute price levels on products sold. Refining margins are a function of the difference between what a refiner pays for its raw materials (primarily crude oil) and the market prices for the range of products produced. These prices, in turn, depend on global and regional supply / demand balances, inventory levels, refinery operations, import / export balances and weather.

Industry crude oil commodity prices and petroleum and chemical product prices are commonly benchmarked in U.S. dollars. The majority of the company's sales and purchases are related to these industry U.S. dollar benchmarks. As the company records and reports its financial results in Canadian dollars, to the extent that the Canadian / U.S. dollar exchange rate fluctuates, the company's earnings will be affected.

The company is exposed to changes in interest rates, primarily on its debt which carries floating interest rates. The impact of a quarter percent change in interest rates affecting the company's debt would not be material to earnings or cash flow. The company has access to significant sources of long-term and short-term liquidity. Internally generated funds are expected to cover the majority of financial requirements, supplemented by long-term and short-term debt as needed.

The company's potential exposure to commodity price and margin, and Canadian / U.S. dollar exchange rate fluctuations is summarized in the earnings sensitivities table, which shows the estimated annual effect, under current conditions, on the company's after-tax net income. For any given period, the extent of actual benefit or detriment will be dependent on the price movements of individual types of crude oil and products, production and sales volumes, transportation capacity, costs and egress methods, and other factors. Accordingly, changes in benchmark prices for crude oil and crude oil differentials, and other factors listed in the table following, only provide broad indicators of changes in the earnings experienced in any particular period.

Earnings sensitivities (a)

millions of Canadian dollars, after-tax

One dollar (U.S.) per barrel increase (decrease) in crude oil prices	+ (-)	105
One dollar (U.S.) per barrel increase (decrease) in refining 2-1-1 margins (b)	+ (-)	140
One cent decrease (increase) in the value of the Canadian dollar versus the U.S. dollar	+ (-)	170

(a) Each sensitivity calculation shows the annual impact on net income resulting from a change in one factor, after tax and royalties, and holding all other factors constant. These sensitivities have been updated to reflect current market conditions. They may not apply proportionately to larger fluctuations.

(b) The 2-1-1 crack spread is an indicator of the refining margin generated by converting two barrels of crude oil into one barrel of gasoline and one barrel of diesel.

The demand for crude oil, petroleum products and petrochemical products are generally linked closely with economic growth. The occurrence of recessions or other periods of low or negative economic growth will typically have a direct adverse impact on the company's financial results. Although price levels of crude oil may rise and fall significantly over the short to medium-term due to global economic conditions, political events, decisions by OPEC, governments and other factors, industry economics over the long-term will continue to be driven by market supply and demand. The company evaluates investments over a range of prices, including estimated greenhouse gas emission costs.

The global energy markets can give rise to extended periods in which market conditions are adverse to one or more of the company's businesses. Such conditions, along with the capital-intensive nature of the industry and very long lead times associated with many of the company's projects, underscore the importance of maintaining a strong financial position. Management views the company's financial strength as a competitive advantage.

In general, segment results are not dependent on the ability to sell and / or purchase products to / from other segments. Where such intersegment sales take place, they are the result of efficiencies and competitive advantages from integrated business segments and refinery and chemical complexes. The company's intersegment sales include crude oil produced by the Upstream and sold to the Downstream, as well as sales between refineries and the chemical plant related to raw materials, feedstocks and finished products. All intersegment sales are at market based prices. Refer to note 2 for additional information on intersegment revenue.

The company has an active asset management program in which nonstrategic assets are considered for divestment. The asset management program includes a disciplined, regular review to ensure that assets are contributing to the company's strategic objectives.

Risk management

The company's size, strong capital structure and the complementary nature of its business segments reduces the company's enterprise-wide risk from changes in commodity prices and currency exchange rates. In addition, the company may use commodity-based contracts, including derivatives, to manage commodity price risk and to generate returns from trading. The company's derivatives are not accounted for under hedge accounting. Credit risk associated with the company's derivative position is mitigated by several factors, including the use of derivative clearing exchanges and the quality of and financial limits placed on derivative counterparties. No material market or credit risks to the company's financial position, results of operations or liquidity exist as a result of the derivatives described in note 6. The company maintains a system of controls that includes the authorization, reporting and monitoring of derivative activity.

Critical accounting estimates

The company's financial statements have been prepared in accordance with United States Generally Accepted Accounting Principles (U.S. GAAP). U.S. GAAP requires management to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses, and the disclosure of contingent assets and liabilities. The company's accounting and financial reporting fairly reflect its business model involving exploration for, and production of, crude oil and natural gas; manufacture, trade, transport and sale of crude oil, natural gas, petroleum products, petrochemicals and a variety of specialty products; and pursuit of lower-emission business opportunities, including carbon capture and storage, hydrogen and lower-emission fuels. The company does not use financing structures for the purpose of altering accounting outcomes or removing debt from the balance sheet. The company's significant accounting policies are summarized in note 1 to the consolidated financial statements.

Oil and natural gas reserves

Evaluations of oil and natural gas reserves are important to the effective management of upstream assets. They are an integral part of investment decisions about oil and gas properties such as whether development should proceed.

The estimation of proved reserve volumes, which is based on the requirement of reasonable certainty, is an ongoing process based on rigorous technical evaluations, commercial and market assessments, detailed analysis of well information such as flow rates and reservoir pressures, and development and production costs, and other factors. The estimation of proved reserves is controlled by the company through long-standing approval guidelines. Reserves changes are made within a well-established, disciplined process driven by qualified geoscience and engineering professionals, assisted by the reserves management group which has significant technical experience, culminating in reviews with and approval by senior management and the company's board of directors. Notably, the company does not use specific quantitative reserves targets to determine compensation. Key features of the reserves estimation process are covered in "Disclosure of reserves" in Item 1.

Oil and natural gas reserves include both proved and unproved reserves.

- Proved oil and natural gas reserves are determined in accordance with U.S. Securities and Exchange Commission (SEC) requirements. Proved reserves are those quantities of oil and natural gas which, by analysis of geoscience and engineering data, can be estimated with reasonable certainty to be economically producible under existing economic and operating conditions and government regulations. Proved reserves are determined using the average of first-day-of-the-month oil and natural gas prices during the reporting year.

Proved reserves can be further subdivided into developed and undeveloped reserves. Proved developed reserves include amounts which are expected to be recovered through existing wells, facilities, or mining activities with existing equipment and operating methods. Proved undeveloped reserves include amounts expected to be recovered from new wells, existing wells, facilities, or mining activities, where a relatively major capital expenditure is required. Proved undeveloped reserves are recognized when a development plan has been adopted indicating that the reserves are scheduled to be developed within five years, unless specific circumstances support a longer period of time.

The company is reasonably certain that proved reserves will be produced. However, the timing and amount recovered can be affected by a number of factors including completion and optimization of development projects, reservoir performance, regulatory approvals, government policies, consumer preferences, royalty frameworks and significant changes in oil and natural gas price levels.

- Unproved reserves are quantities of oil and natural gas with less than reasonable certainty of recoverability and include probable reserves. Probable reserves are reserves that, together with proved reserves, are as likely as not to be recovered.

Revisions in previously estimated volumes of proved reserves for existing fields can occur due to the evaluation or re-evaluation of already available geologic, reservoir or production data; new geologic, reservoir or production data; or changes in the average of first-day-of-the-month oil and natural gas prices and / or costs that are used in the estimation of reserves. Revisions can also result from significant changes in either development strategy or production equipment and facility capacity.

In 2021, upward revisions of proved bitumen reserves were a result of improved prices. The 1.7 billion barrels of bitumen at Kearl and 0.5 billion barrels of bitumen at Cold Lake qualified as proved reserves under the SEC definition of proved reserves. Upward revisions to proved synthetic crude oil reserves were a result of improved prices. Changes to the liquids and natural gas proved reserves were the result of updated development plans and divestments at the Montney and Duvernay unconventional assets.

In 2022, downward revisions of proved bitumen reserves were driven by a decrease of 0.2 billion barrels at Kearl as a result of higher royalty obligations associated with pricing, and a decrease of 0.2 billion barrels at Cold Lake due to an updated development plan. An increase to the bitumen reserves of 0.1 billion barrels is associated with extensions at Cold Lake for the Grand Rapids Phase 1 SA-SAGD and Leming SAGD projects. Downward revisions to proved synthetic crude oil reserves were a result of mine development plan updates and higher royalty obligations at Syncrude associated with pricing. Changes to the liquids and natural gas proved reserves were primarily a result of the sale of the company's interest in the Montney and Duvernay unconventional assets.

In 2023, upward revisions of proved bitumen of 0.1 billion barrels were driven by lower royalty obligations associated with lower pricing and minor technical revisions at Cold Lake and Kearl. A slight increase in proved reserves for synthetic crude oil is associated with lower royalty obligations associated with pricing. Conventional proved liquids reserves decreased to zero under existing pricing and operating conditions.

Under the terms of certain contractual arrangements or government royalty regimes, lower prices can also increase proved reserves attributable to the company. The company's operating decisions and its outlook for future production volumes are not impacted by proved reserves as disclosed under the SEC definition.

Unit-of-production depreciation

Oil and natural gas reserve volumes are used as the basis to calculate unit-of-production depreciation rates for most upstream assets. Depreciation is calculated by taking the ratio of asset cost to total proved reserves or proved developed reserves applied to actual production. The volumes produced and asset cost are known, while proved reserves are based on estimates that are subject to some variability.

In the event that the unit-of-production method does not result in an equitable allocation of cost over the economic life of an upstream asset, an alternative method is used. The straight-line method is used in limited situations where the expected life of the asset does not reasonably correlate with that of the underlying reserves. For example, certain assets used in the production of oil and natural gas have a shorter life than the reserves, and as such, the company uses straight-line depreciation to ensure the asset is fully depreciated by the end of its useful life.

To the extent that proved reserves for a property are substantially de-booked and that property continues to produce such that the resulting depreciation charge does not result in an equitable allocation of cost over the expected life, assets will be depreciated using a unit-of-production method based on reserves determined at the most recent SEC price which results in a more meaningful quantity of proved reserves, appropriately adjusted for production and technical changes.

Impact of oil and gas reserves and prices and margins on testing for impairment

The company tests assets or groups of assets for recoverability on an ongoing basis whenever events or changes in circumstances indicate that the carrying amounts may not be recoverable. The company has a robust process to monitor for indicators of potential impairment across its asset groups throughout the year. This process is aligned with the requirements of ASC 360 and ASC 932 and relies, in part, on the company's planning and budgeting cycle.

Because the lifespans of the vast majority of the company's major assets are measured in decades, the future cash flows of these assets are predominantly based on long-term oil and natural gas commodity prices, industry margins, and development and production costs. Significant reductions in the company's view of oil or natural gas commodity prices or margin ranges, especially the longer-term prices and margins, and changes in the development plans, including decisions to defer, reduce or eliminate planned capital spending, can be an indicator of potential impairment. Other events or changes in circumstances, including indicators outlined in ASC 360 can be indicators of potential impairment as well.

In general, the company does not view temporarily low prices or margins as an indication of impairment. Management believes that prices over the long term must be sufficient to generate investments in energy supply to meet global demand. Although prices will occasionally drop significantly, industry prices over the long term will continue to be driven by market supply and demand fundamentals. On the supply side, industry production from mature fields is declining. This is being offset by investments to generate production from new discoveries, field developments, and technology and efficiency advancements. OPEC+ investment activities and production policies also have an impact on world oil supplies. The demand side is largely a function of general economic activities, alternative energy sources and levels of prosperity. During the lifespan of its major assets, the company expects that oil and gas prices and industry margins will experience significant volatility. Consequently, these assets will experience periods of higher earnings and periods of lower earnings, or even losses. In assessing whether events or changes in circumstances indicate the carrying value of an asset may not be recoverable, the company considers recent periods of operating losses in the context of its longer-term view of prices and margins.

Global Outlook and cash flow assessment

The annual planning and budgeting process, known as the company plan, is the mechanism by which resources (capital, operating expenses and people) are allocated across the company. The foundation for the energy supply and demand assumptions supporting the company plan begins with Exxon Mobil Corporation's *Global Outlook* (the Outlook), which contains demand and supply projections based on its assessment of current trends in technology, government policies, consumer preferences, geopolitics, economic development, and other factors.

Reflective of the existing global policy environment, the Outlook does not attempt to project the degree of required future policy and technology advancement and deployment for the world or the company, to meet net zero by 2050. As future policies and technology advancements emerge, they will be incorporated into the Outlook, and consequently, the company's business plans will be updated accordingly.

If events or changes in circumstances indicate that the carrying value of an asset may not be recoverable, the company estimates the future undiscounted cash flows of the affected properties to judge the recoverability of carrying amounts. In performing this assessment, assets are grouped at the lowest level for which there are identifiable cash flows that are largely independent of the cash flows of other groups of assets. Cash flows used in recoverability assessments are based on the assumptions developed in the company plan, which is reviewed and approved by the board of directors, and are consistent with the criteria management uses to evaluate investment opportunities. These evaluations make use of the company's assumptions of future capital allocations, crude oil and natural gas commodity prices including price differentials, refining and chemical margins, volumes, development and operating costs, including greenhouse gas emissions prices, and foreign currency exchange rates. Volumes are based on projected field and facility production profiles, throughput, or sales. Management's estimate of upstream production volumes used for projected cash flows makes use of proved reserve quantities and may include risk-adjusted unproved reserve quantities. The greenhouse gas emission prices reflect existing or anticipated policy actions of applicable provincial and federal governments. While third-party scenarios may be used to test the resiliency of company's businesses or strategies, they are not used as a basis for developing future cash flows for impairment assessments.

Fair value of impaired assets

An asset group is impaired if its estimated future undiscounted cash flows are less than the asset group's carrying value. Impairments are measured by the excess of the carrying value over fair value. The assessment of fair value is based on the views of a likely market participant. The principal parameters used to establish fair value include estimates of acreage values and flowing production metrics from comparable market transactions, market-based estimates of historical cash flow multiples, and discounted cash flows. Inputs and assumptions used in discounted cash flow models include estimates of future production volumes, throughput and product sales volumes, commodity prices (which are consistent with the average of third-party industry experts and government agencies), refining and chemical margins, drilling and development costs, operating costs, and discount rates which are reflective of the characteristics of the asset group.

Other impairment estimates

Unproved properties are assessed periodically to determine whether they have been impaired. Significant unproved properties are assessed for impairment individually, and valuation allowances against the capitalized costs are recorded based on the company's future development plans, the estimated economic chance of success and the length of time that the company expects to hold the properties. Properties that are not individually significant are aggregated by groups and amortized based on development risk and average holding period.

Long-lived assets that are held for sale are evaluated for possible impairment by comparing the carrying value of the asset with its fair value less the cost to sell. If the net book value exceeds the fair value less cost to sell, the assets are considered impaired and adjusted to the lower value. Judgment is required to determine if assets are held for sale, and to determine the fair value less cost to sell.

Investments accounted for by the equity method are assessed for possible impairment when events or changes in circumstances indicate that the carrying value of an investment may not be recoverable. Examples of key indicators include a history of operating losses, negative earnings and cash flow outlook, significant downward revisions to oil and gas reserves, and the financial condition and prospects for the investee's business segment or geographic region. If the decline in value of the investment is other than temporary, the carrying value of the investment is written down to fair value. In the absence of market prices for the investment, discounted cash flows are used to assess fair value, which requires significant judgment.

Recent impairments

Factors which could put further assets at risk of impairment in the future include reductions in the company's price or margin outlooks, changes in the allocation of capital or development plans, reduced long-term demand for the company's products and operating cost increases which exceed the pace of efficiencies or the pace of oil and natural gas price increases or margins. However, due to the inherent difficulty in predicting future commodity prices or margins, and the relationship between industry prices and costs, it is not practicable to reasonably estimate the existence or range of any potential future impairment charges related to the company's long-lived assets.

Supplemental information regarding oil and gas results of operations, capitalized costs and reserves is provided following the notes to consolidated financial statements.

Pension benefits

The company's pension plan is managed in compliance with the requirements of governmental authorities and meets funding levels as determined by independent third-party actuaries. Pension accounting requires explicit assumptions regarding, among others, the discount rate for the benefit obligations, the expected rate of return on plan assets and the long-term rate of future compensation increases. All pension assumptions are reviewed annually by senior management. These assumptions are adjusted only as appropriate to reflect long-term changes in market rates and outlook. The long-term expected rate of return on plan assets of 4.8 percent used in 2023 compares to actual returns of 5.7 percent and 6.1 percent achieved over the last 10- and 20-year periods respectively, ending December 31, 2023. If different assumptions are used, the obligation and expense could increase or decrease as a result. As an indication of the company's potential exposure to changes in the critical assumptions such as the expected rate of return on plan assets and the discount rate for measuring the pension plan benefits obligation, a reduction of 1 percent in the discount rate would increase the benefits obligation by approximately \$1 billion. Similarly, a reduction of 1 percent in the long-term rate of return on plan assets would increase the annual pension expense by approximately \$75 million before tax. At the company, differences between actual returns on plan assets and the long-term expected returns are not recorded in pension expense in the year the differences occur. Such differences are deferred, along with other actuarial gains and losses, and are amortized into pension expense over the expected average remaining service life of employees. Employee benefits expense represented about 1 percent of total expenses in 2023.

Asset retirement obligations

The company is subject to retirement obligations for certain assets. The fair values of these obligations are recorded as liabilities on a discounted basis, which is typically at the time the assets are installed. In the estimation of fair value, the company uses assumptions and judgments regarding such factors as the existence of a legal obligation for an asset retirement obligation; technical assessments of the assets; estimated amounts and timing of settlements; discount rates; and inflation rates. Note 5 to the consolidated financial statements provides a three-year continuity table detailing the changes in asset retirement obligations.

Suspended exploratory well costs

The company continues capitalization of exploratory well costs when it has found a sufficient quantity of reserves to justify its completion as a producing well and the company is making sufficient progress assessing the reserves and the economic and operating viability of the project. Exploratory well costs not meeting these criteria are charged to expense. Assessing whether the company is making sufficient progress on a project requires careful consideration of the facts and circumstances. The facts and circumstances that support continued capitalization of suspended wells at year-end are disclosed in note 15 to the consolidated financial statements.

Tax contingencies

The operations of the company are complex, and related tax interpretations, regulations and legislation are continually changing.

The benefits of uncertain tax positions that the company has taken or expects to take in its income tax returns are recognized in the financial statements if management concludes that it is more likely than not that the position will be sustained with the tax authorities. For a position that is likely to be sustained, the benefit recognized in the financial statements is measured at the largest amount that is greater than 50 percent likely of being realized. Significant management judgment is required in the accounting for income tax contingencies and tax disputes because the outcomes are often difficult to predict. The company's unrecognized tax benefits and a description of open tax years are summarized in note 3 to the consolidated financial statements.

Management's report on internal control over financial reporting

Management, including the company's chief executive officer and principal accounting officer and principal financial officer, is responsible for establishing and maintaining adequate internal control over the company's financial reporting. Management conducted an evaluation of the effectiveness of internal control over financial reporting based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this evaluation, management concluded that Imperial Oil Limited's internal control over financial reporting was effective as of December 31, 2023.

PricewaterhouseCoopers LLP, an independent registered public accounting firm, audited the effectiveness of the company's internal control over financial reporting as of December 31, 2023, as stated in their report which is included herein.

/s/ Bradley W. Corson

Bradley W. Corson
Chairman, president and chief executive officer
(Principal executive officer)

/s/ Daniel E. Lyons

Daniel E. Lyons
Senior vice-president,
finance and administration, and controller
(Principal accounting officer and principal financial officer)

February 28, 2024

Report of Independent Registered Public Accounting Firm

To the Board of Directors and Shareholders of Imperial Oil Limited

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of Imperial Oil Limited and its subsidiaries (together, the Company) as of December 31, 2023 and 2022, and the related consolidated statements of income, comprehensive income, shareholders' equity and cash flows for each of the three years in the period ended December 31, 2023, including the related notes (collectively referred to as the consolidated financial statements). We also have audited 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 (COSO).

In our opinion, the consolidated financial statements referred to above 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 three years in the period ended December 31, 2023 in conformity with accounting principles generally accepted in the United States of America. Also 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 COSO.

Basis for Opinions

The Company's management is responsible for these consolidated financial statements, 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 opinions on the Company's consolidated financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (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 audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements 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. 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 audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

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 (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) 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 (iii) 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.

Critical Audit Matters

The critical audit matter communicated below is a matter arising from the current period audit of the consolidated financial statements that was communicated or required to be communicated to the audit committee and that (i) relates to accounts or disclosures that are material to the consolidated financial statements and (ii) 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 matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

The Impact of Proved Developed Oil and Natural Gas Reserves on Upstream Property, Plant and Equipment, Net

As described in Notes 1 and 2 to the consolidated financial statements, the Company's consolidated upstream property, plant and equipment (PP&E), net balance was \$26,840 million as of December 31, 2023, and the related depreciation and depletion expense for the year ended December 31, 2023 was \$1,680 million. Management uses the successful efforts method to account for its exploration and production activities. Costs incurred to purchase, lease or otherwise acquire a property (whether unproved or proved) are capitalized when incurred. As disclosed by management, proved oil and natural gas reserve volumes are used as the basis to calculate unit-of-production depreciation rates for most upstream assets. The estimation of proved oil and natural gas reserve volumes is an ongoing process based on technical evaluations, commercial and market assessments, detailed analysis of well information such as flow rates and reservoir pressures, and development and production costs, among other factors. As further disclosed by management, reserves changes are made within a well established, disciplined process driven by qualified geoscience and engineering professionals, assisted by the reserves management group (together, management's specialists).

The principal considerations for our determination that performing procedures relating to the impact of proved developed oil and natural gas reserves on upstream PP&E, net is a critical audit matter are (i) the significant judgment by management, including the use of management's specialists, when developing the estimates of proved developed oil and natural gas reserve volumes, and (ii) a high degree of auditor judgment, subjectivity, and effort in performing procedures and evaluating the audit evidence related to the data, methods, and assumptions used by management and its specialists in developing the estimates of proved developed oil and natural gas reserve volumes.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to management's estimates of proved developed oil and natural gas reserve volumes. The work of management's specialists was used in performing the procedures to evaluate the reasonableness of the proved developed oil and natural gas reserve volumes. As a basis for using this work, management's specialists' qualifications were understood and the Company's relationship with management's specialists was assessed. The procedures performed, also included i) evaluating the methods and assumptions used by management's specialists, ii) testing the completeness and accuracy of the data used by management's specialists related to historical production volumes, and iii) evaluating management's specialists' findings related to estimated future production volumes by comparing the estimate to relevant historical and current period information, as applicable.

/s/PricewaterhouseCoopers LLP

Chartered Professional Accountants

Calgary, Canada
February 28, 2024

We have served as the Company's auditor since 1934.

Consolidated statement of income (U.S. GAAP)

millions of Canadian dollars

For the years ended December 31

	2023	2022	2021
Revenues and other income			
Revenues (a)	50,702	59,413	37,508
Investment and other income (note 8, 18)	267	257	82
Total revenues and other income	50,969	59,670	37,590
Expenses			
Exploration (note 15)	5	5	32
Purchases of crude oil and products (b)	32,399	37,742	23,174
Production and manufacturing (c)	6,879	7,404	6,316
Selling and general (c)	857	882	784
Federal excise tax and fuel charge	2,402	2,179	1,928
Depreciation and depletion	1,907	1,897	1,977
Non-service pension and postretirement benefit	82	17	42
Financing (d) (note 12)	69	60	54
Total expenses	44,600	50,186	34,307
Income (loss) before income taxes	6,369	9,484	3,283
Income taxes (note 3)	1,480	2,144	804
Net income (loss)	4,889	7,340	2,479
Per share information (Canadian dollars)			
Net income (loss) per common share - basic (note 10)	8.51	11.47	3.48
Net income (loss) per common share - diluted (note 10)	8.49	11.44	3.48
(a) Amounts from related parties included in revenues (note 16).	13,544	17,042	8,777
(b) Amounts to related parties included in purchases of crude oil and products (note 16).	4,125	3,795	2,737
(c) Amounts to related parties included in production and manufacturing, and selling and general expenses (note 16).	473	460	420
(d) Amounts to related parties included in financing (note 16).	169	78	28

The information in the notes to consolidated financial statements is an integral part of these statements.

Consolidated statement of comprehensive income (U.S. GAAP)

millions of Canadian dollars

For the years ended December 31

	2023	2022	2021
Net income (loss)	4,889	7,340	2,479
Other comprehensive income (loss), net of income taxes			
Postretirement benefits liability adjustment (excluding amortization)	(206)	582	679
Amortization of postretirement benefits liability adjustment included in net benefit costs	41	83	133
Total other comprehensive income (loss)	(165)	665	812
Comprehensive income (loss)	4,724	8,005	3,291

The information in the notes to consolidated financial statements is an integral part of these statements.

Consolidated balance sheet (U.S. GAAP)

millions of Canadian dollars

At December 31

2023

2022

Assets

Current assets

Cash and cash equivalents	864	3,749
Accounts receivable - net (a)	4,482	4,719
Inventories of crude oil and products (note 11)	1,944	1,514
Materials, supplies and prepaid expenses	1,008	754

Total current assets	8,298	10,736
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Investments and long-term receivables (b)	1,062	893
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Property, plant and equipment, less accumulated depreciation and depletion (note 18)	30,835	30,506
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Goodwill	166	166
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Other assets, including intangibles - net	838	1,223
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Total assets	41,199	43,524
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Liabilities

Current liabilities

Notes and loans payable (note 12)	121	122
Accounts payable and accrued liabilities (a) (note 11)	6,231	6,194
Income taxes payable	251	2,582

Total current liabilities	6,603	8,898
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Long-term debt (c) (note 14)	4,011	4,033
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Other long-term obligations (note 5)	3,851	3,467
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Deferred income tax liabilities (note 3)	4,512	4,713
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Total liabilities	18,977	21,111
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Commitments and contingent liabilities (note 9)

Shareholders' equity

Common shares at stated value (d) (note 10)	992	1,079
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Earnings reinvested	21,907	21,846
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Accumulated other comprehensive income (loss) (note 17)	(677)	(512)
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Total shareholders' equity	22,222	22,413
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Total liabilities and shareholders' equity	41,199	43,524
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(a) Accounts receivable - net included net amounts receivable from related parties (note 16).	1,048	1,108
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(b) Investments and long-term receivables included amounts from related parties (note 16).	283	288
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(c) Long-term debt included amounts to related parties (note 16).	3,447	3,447
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(d) Number of common shares authorized (millions) (note 10).	1,100	1,100
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Number of common shares outstanding (millions) (note 10).	536	584
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The information in the notes to consolidated financial statements is an integral part of these statements.

Approved by the directors.

/s/ Bradley W. Corson

Bradley W. Corson
Chairman, president and
chief executive officer

/s/ Daniel E. Lyons

Daniel E. Lyons
Senior vice-president
finance and administration, and controller

Consolidated statement of shareholders' equity (U.S. GAAP)

millions of Canadian dollars

At December 31	2023	2022	2021
Common shares at stated value (note 10)			
At beginning of year	1,079	1,252	1,357
Share purchases at stated value	(87)	(173)	(105)
At end of year	992	1,079	1,252
Earnings reinvested			
At beginning of year	21,846	21,660	22,050
Net income (loss) for the year	4,889	7,340	2,479
Share purchases in excess of stated value	(3,713)	(6,222)	(2,140)
Dividends declared	(1,115)	(932)	(729)
At end of year	21,907	21,846	21,660
Accumulated other comprehensive income (loss) (note 17)			
At beginning of year	(512)	(1,177)	(1,989)
Other comprehensive income (loss)	(165)	665	812
At end of year	(677)	(512)	(1,177)
Shareholders' equity at end of year	22,222	22,413	21,735

The information in the notes to consolidated financial statements is an integral part of these statements.

Consolidated statement of cash flows (U.S. GAAP)

millions of Canadian dollars

For the years ended December 31

	2023	2022	2021
Operating activities			
Net income (loss)	4,889	7,340	2,479
Adjustments for non-cash items:			
Depreciation and depletion	1,907	1,897	1,977
(Gain) loss on asset sales (note 8, 18)	(73)	(158)	(49)
Deferred income taxes and other	(85)	(77)	91
Changes in operating assets and liabilities:			
Accounts receivable	237	(862)	(1,950)
Inventories, materials, supplies and prepaid expenses	(688)	(477)	45
Income taxes payable	(2,331)	1,876	248
Accounts payable and accrued liabilities	81	948	2,020
All other items - net (b)	(203)	(5)	615
Cash flows from (used in) operating activities	3,734	10,482	5,476
Investing activities			
Additions to property, plant and equipment	(1,785)	(1,526)	(1,108)
Proceeds from asset sales (note 8, 18)	86	904	81
Additional investments	—	(6)	—
Loans to equity companies - net	5	10	15
Cash flows from (used in) investing activities	(1,694)	(618)	(1,012)
Financing activities			
Short-term debt - net (note 12)	—	—	(111)
Long-term debt - reduction (note 14)	—	(1,000)	—
Finance lease obligations - reduction (note 14)	(22)	(22)	(20)
Dividends paid	(1,103)	(851)	(706)
Common shares purchased (note 10)	(3,800)	(6,395)	(2,245)
Cash flows from (used in) financing activities	(4,925)	(8,268)	(3,082)
Increase (decrease) in cash and cash equivalents	(2,885)	1,596	1,382
Cash and cash equivalents at beginning of year	3,749	2,153	771
Cash and cash equivalents at end of year (a)	864	3,749	2,153
(a) Cash is composed of cash in bank and cash equivalents at cost. Cash equivalents are all highly liquid securities with maturity of three months or less.			
(b) Included contributions to registered pension plans.	(148)	(174)	(164)
Income taxes (paid) refunded.	(4,153)	(374)	58
Interest (paid), net of capitalization.	(69)	(60)	(43)

The information in the notes to consolidated financial statements is an integral part of these statements.

Notes to consolidated financial statements

The accompanying consolidated financial statements and the supporting and supplemental material are the responsibility of the management of Imperial Oil Limited.

The company's principal business involves exploration for, and production of, crude oil and natural gas; manufacture, trade, transport and sale of crude oil, natural gas, petroleum products, petrochemicals and a variety of specialty products; and pursuit of lower-emission business opportunities including carbon capture and storage, and lower-emission fuels.

The consolidated financial statements have been prepared in accordance with United States Generally Accepted Accounting Principles (U.S. GAAP), which requires management to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses, and the disclosure of contingent assets and liabilities. Actual results could differ from these estimates. Prior years' data have been reclassified in certain cases to conform to the 2023 presentation basis. All amounts are in Canadian dollars unless otherwise indicated.

1. Summary of significant accounting policies

Principles of consolidation

The consolidated financial statements include the accounts of subsidiaries the company controls. Intercompany accounts and transactions are eliminated. Subsidiaries include those companies in which Imperial has both an equity interest and the continuing ability to unilaterally determine strategic, operating, investing and financing policies. Imperial Oil Resources Limited and Canada Imperial Oil Limited are significant subsidiaries included in the consolidated financial statements and are wholly owned by Imperial Oil Limited. The consolidated financial statements also include the company's share of the undivided interest in certain upstream assets, liabilities, revenues and expenses, including its 70.96 percent interest in the Kearn joint venture and its 25 percent interest in the Syncrude joint venture.

Revenues

The company generally sells crude oil, natural gas and petroleum and chemical products under short-term agreements at prevailing market prices. In some cases, products may be sold under long-term agreements, with periodic price adjustments to reflect market conditions.

Revenue is recognized at the amount the company expects to receive when the customer has taken control, which is typically when title transfers and the customer has assumed the risks and rewards of ownership. The prices of certain sales are based on price indices that are sometimes not available until the next period. In such cases, estimated realizations are accrued when the sale is recognized, and are finalized when final information is available. Such adjustments to revenue from performance obligations satisfied in previous periods are not significant. Payment for revenue transactions is typically due within 30 days.

Revenues include amounts billed to customers for shipping and handling. Shipping and handling costs incurred up to the point of final storage prior to delivery to a customer are included in "Purchases of crude oil and products" in the Consolidated statement of income. Delivery costs from final storage to customer are recorded as a marketing expense in "Selling and general" expenses. The company does not enter into ongoing arrangements whereby it is required to repurchase its products, nor does the company provide the customer with a right of return.

Future volume delivery obligations that are unsatisfied at the end of the period are expected to be fulfilled through ordinary production or purchases. These performance obligations are based on market prices at the time of the transaction and are fully constrained due to market price volatility.

Purchases and sales of inventory with the same counterparty that are entered into in contemplation of one another are combined and recorded as exchanges measured at the book value of the item sold.

"Revenues" and "Accounts receivable - net" include revenue and receivables both within the scope of ASC 606 *Revenue from Contracts with Customers*, and those outside the scope of ASC 606. Long-term receivables are primarily from receivables outside the scope of ASC 606. Contract assets are mainly from marketing assistance programs and are not significant. Contract liabilities are mainly customer prepayments and accruals of expected volume discounts, and are not significant.

Consumer taxes

Taxes levied on the consumer and collected by the company are excluded from the Consolidated statement of income. These are primarily provincial taxes on motor fuels, the federal goods and services tax and the federal / provincial harmonized sales tax.

Derivative instruments

The company may use derivative instruments for trading purposes and to offset exposures associated with commodity prices, currency exchange rates and interest rates that arise from existing assets, liabilities, firm commitments and forecasted transactions. All derivative instruments, except those designated as normal purchase and normal sale, are recorded at fair value. Derivative assets and liabilities with the same counterparty are netted if the right of offset exists and certain other criteria are met. Collateral payables or receivables are netted against derivative assets and derivative liabilities, respectively.

Recognition and classification of the gain or loss that results from adjusting a derivative to fair value depends on the purpose for the derivative. The gains and losses resulting from changes in the fair value of derivatives are recorded under "Revenues" or "Purchases of crude oil and products" in the Consolidated statement of income.

Fair value

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. Hierarchy levels 1, 2 and 3 are terms for the priority of inputs to valuation techniques used to measure fair value. Hierarchy level 1 inputs are quoted prices in active markets for identical assets or liabilities. Hierarchy level 2 inputs are inputs other than quoted prices included within level 1 that are directly or indirectly observable for the asset or liability. Hierarchy level 3 inputs are inputs that are not observable in the market.

Inventories

Inventories are recorded at the lower of current market value or cost. The cost of crude oil and products is determined primarily using the last-in, first-out (LIFO) method. LIFO was selected over the alternative first-in, first-out and average cost methods because it provides a better matching of current costs with the revenues generated in the period.

Inventory costs include expenditures and other charges (including depreciation), directly and indirectly incurred in bringing the inventory to its existing condition and location. Selling and general expenses are reported as period costs and excluded from inventory costs. Inventories of materials and supplies are valued at cost or less.

Investments

The company's interests in the underlying net assets of affiliates it does not control, but over which it exercises significant influence, are accounted for using the equity method. They are recorded at the original cost of the investment plus the company's share of earnings since the investment was made, less dividends received. The company's share of the after-tax earnings of these investments is included in "Investment and other income" in the Consolidated statement of income. Investments in equity securities, other than consolidated subsidiaries and equity method investments, are measured at fair value, with changes in the fair value recognized in net income. The company uses a modified approach for equity securities that do not have a readily determinable fair value. This modified approach measures investments at cost minus impairment, if any, plus or minus changes resulting from observable price changes in orderly transactions in similar investments of the same issuer. Dividends from these investments are included in "Investment and other income".

These investments represent interests in non-publicly traded pipeline companies and a rail loading joint venture that facilitate the sale and purchase of liquids in the conduct of company operations. Other parties who also have an equity interest in these investments share in the risks and rewards according to their percentage of ownership. The company does not invest in these investments in order to remove liabilities from its balance sheet.

Property, plant and equipment

Cost basis

The company uses the "successful efforts" method to account for its exploration and production activities. Under this method, costs are accumulated on a field-by-field basis. Costs incurred to purchase, lease, or otherwise acquire a property (whether unproved or proved) are capitalized when incurred. Exploratory well costs are carried as an asset when the well has found a sufficient quantity of reserves to justify its completion as a producing well and where the company is making sufficient progress assessing the reserves and the economic and operating viability of the project. Exploratory well costs not meeting these criteria are charged to expense. Other exploratory expenditures, including geophysical costs and annual lease rentals, are expensed as incurred. Development costs, including costs of productive wells and development dry holes, are capitalized.

Interest costs incurred to finance expenditures during the construction phase of projects are capitalized as part of the historical cost of acquiring the constructed assets. The project construction phase commences with the development of the detailed engineering design and ends when the constructed assets are ready for their intended use. Capitalized interest costs are included in property, plant and equipment and are depreciated over the service life of the related assets.

Maintenance and repair costs, including planned major maintenance, are expensed as incurred. Improvements that increase or prolong the service life or capacity of an asset are capitalized.

Depreciation, depletion and amortization

Depreciation, depletion and amortization are primarily determined under either the unit-of-production method or the straight-line method, which is based on estimated asset service life taking obsolescence into consideration. Depreciation and depletion for assets associated with producing properties begin at the time when production commences on a regular basis. Depreciation for other assets begins when the asset is in place and ready for its intended use. Assets under construction are not depreciated or depleted.

Acquisition costs of proved properties are amortized using a unit-of-production method, computed on the basis of total proved oil and natural gas reserve volumes. Capitalized exploratory drilling and development costs associated with productive depletable extractive properties are amortized using the unit-of-production rates based on the amount of proved developed reserves of oil and gas that are estimated to be recoverable from existing facilities using current operating methods. Under the unit-of-production method, oil and natural gas volumes are considered produced once they have been measured through meters at custody transfer or sales transaction points at the outlet valve on the lease or field storage tank. In the event that the unit-of-production method does not result in an equitable allocation of cost over the economic life of an upstream asset, an alternative method is used. The straight-line method is used in limited situations where the expected life of the asset does not reasonably correlate with that of the underlying reserves. For example, certain assets used in the production of oil and natural gas have a shorter life than the reserves, and as such, the company uses straight-line depreciation to ensure the asset is fully depreciated by the end of its useful life. Investments in mining heavy equipment and certain ore processing plant assets at oil sands mining properties are depreciated on a straight-line basis over a maximum of 15 years and 50 years respectively. Depreciation of other plant and equipment is calculated using the straight-line method, based on the estimated service life of the asset.

To the extent that proved reserves for a property are substantially de-booked and that property continues to produce such that the resulting depreciation charge does not result in an equitable allocation of cost over the expected life, assets will be depreciated using a unit-of-production method based on reserves determined at the most recent SEC price which results in a more meaningful quantity of proved reserves, appropriately adjusted for production and technical changes.

Investments in refinery and chemical process manufacturing equipment are generally depreciated on a straight-line basis over a 25-year life. Maintenance and repairs, including planned major maintenance, are expensed as incurred. Major renewals and improvements are capitalized and the assets replaced are retired.

Impairment assessment

The company tests assets or groups of assets for recoverability on an ongoing basis whenever events or changes in circumstances indicate that the carrying amounts may not be recoverable.

Among the events or changes in circumstances which could indicate that the carrying value of an asset or asset group may not be recoverable are the following:

- a significant decrease in the market price of a long-lived asset;
- a significant adverse change in the extent or manner in which an asset is being used or in its physical condition including a significant decrease in current and projected reserve volumes;
- a significant adverse change in legal factors or in the business climate that could affect the value, including an adverse action or assessment by a regulator;
- an accumulation of project costs significantly in excess of the amount originally expected;
- a current-period operating loss combined with a history and forecast of operating or cash flow losses; and
- a current expectation that, more likely than not, a long-lived asset will be sold or otherwise disposed of significantly before the end of its previously estimated useful life.

The company has a robust process to monitor for indicators of potential impairment across its asset groups throughout the year. This process is aligned with the requirements of ASC 360 and ASC 932 and relies, in part, on the company's planning and budgeting cycle. Asset valuation analysis, profitability reviews and other periodic control processes assist the company in assessing whether events or changes in circumstances indicate the carrying amounts of any of its assets may not be recoverable.

Because the lifespans of the vast majority of the company's major assets are measured in decades, the future cash flows of these assets are predominantly based on long-term oil and natural gas commodity prices, industry margins, and development and production costs. Significant reductions in the company's view of oil or natural gas commodity prices or margin ranges, especially the longer-term prices and margins, and changes in the development plans, including decisions to defer, reduce or eliminate planned capital spending, can be an indicator of potential impairment. Other events or changes in circumstances, including indicators outlined in ASC 360 can be indicators of potential impairment as well.

In general, the company does not view temporarily low prices or margins as an indication of impairment. Management believes that prices over the long term must be sufficient to generate investments in energy supply to meet global demand. Although prices will occasionally drop significantly, industry prices over the long term will continue to be driven by market supply and demand fundamentals. On the supply side, industry production from mature fields is declining. This is being offset by investments to generate production from new discoveries, field developments, and technology and efficiency advancements. OPEC+ investment activities and production policies also have an impact on world oil supplies. The demand side is largely a function of general economic activities, alternative energy sources and levels of prosperity. During the lifespan of its major assets, the company expects that oil and gas prices and industry margins will experience significant volatility. Consequently, these assets will experience periods of higher earnings and periods of lower earnings, or even losses. In assessing whether events or changes in circumstances indicate the carrying value of an asset may not be recoverable, the company considers recent periods of operating losses in the context of its longer-term view of prices and margins.

In the Upstream, the standardized measure of discounted cash flows included in the "Supplemental information on oil and gas exploration and production activities" is required to use prices based on the average of first-day-of-month prices in the year. These prices represent discrete points in time and could be higher or lower than the company's price assumptions which are used for impairment assessments. The company believes the standardized measure does not provide a reliable estimate of the expected future cash flows to be obtained from the development and production of its oil and gas properties or of the value of its oil and gas reserves and therefore does not consider it relevant in determining whether events or changes in circumstances indicate the need for an impairment assessment.

Global Outlook and cash flow assessment

The annual planning and budgeting process, known as the company plan, is the mechanism by which resources (capital, operating expenses and people) are allocated across the company. The foundation for the energy supply and demand assumptions supporting the company plan begins with Exxon Mobil Corporation's *Global Outlook* (the Outlook), which contains demand and supply projections based on its assessment of current trends in technology, government policies, consumer preferences, geopolitics, economic development, and other factors.

Reflective of the existing global policy environment, the Outlook does not attempt to project the degree of required future policy and technology advancement and deployment for the world or the company, to meet net zero by 2050. As future policies and technology advancements emerge, they will be incorporated into the Outlook, and consequently, the company's business plans will be updated accordingly.

If events or changes in circumstances indicate that the carrying value of an asset may not be recoverable, the company estimates the future undiscounted cash flows of the affected properties to judge the recoverability of carrying amounts. In performing this assessment, assets are grouped at the lowest level for which there are identifiable cash flows that are largely independent of the cash flows of other groups of assets. Cash flows used in recoverability assessments are based on the assumptions developed in the company plan, which is reviewed and approved by the board of directors, and are consistent with the criteria management uses to evaluate investment opportunities. These evaluations make use of the company's assumptions of future capital allocations, crude oil and natural gas commodity prices including price differentials, refining and chemical margins, volumes, development and operating costs, including greenhouse gas emissions prices, and foreign currency exchange rates. Volumes are based on projected field and facility production profiles, throughput, or sales. Management's estimate of upstream production volumes used for projected cash flows makes use of proved reserve quantities and may include risk-adjusted unproved reserve quantities. The greenhouse gas emission prices reflect existing or anticipated policy actions of applicable provincial and federal governments.

Fair value of impaired assets

An asset group is impaired if its estimated future undiscounted cash flows are less than the asset group's carrying value. Impairments are measured by the excess of the carrying value over fair value. The assessment of fair value is based on the views of a likely market participant. The principal parameters used to establish fair value include estimates of acreage values and flowing production metrics from comparable market transactions, market-based estimates of historical cash flow multiples, and discounted cash flows. Inputs and assumptions used in discounted cash flow models include estimates of future production volumes, throughput and product sales volumes, commodity prices (which are consistent with the average of third-party industry experts and government agencies), refining and chemical margins, drilling and development costs, operating costs, and discount rates which are reflective of the characteristics of the asset group.

Other impairment estimates

Unproved properties are assessed periodically to determine whether they have been impaired. Significant unproved properties are assessed for impairment individually, and valuation allowances against the capitalized costs are recorded based on the company's future development plans, the estimated economic chance of success and the length of time that the company expects to hold the properties. Properties that are not individually significant are aggregated by groups and amortized based on development risk and average holding period.

Long-lived assets that are held for sale are evaluated for possible impairment by comparing the carrying value of the asset with its fair value less the cost to sell. If the net book value exceeds the fair value less cost to sell, the assets are considered impaired and adjusted to the lower value. Gains on sales of proved and unproved properties are only recognized when there is neither uncertainty about the recovery of costs applicable to any interest retained nor any substantial obligation for future performance by the company.

Asset retirement obligations and other environmental liabilities

The company incurs retirement obligations for certain assets. The fair values of these obligations are recorded as liabilities on a discounted basis, which is typically at the time the assets are installed. In the estimation of fair value, the company uses assumptions and judgments regarding such factors as the existence of a legal obligation for an asset retirement obligation, technical assessments of the assets, estimated amounts and timing of settlements, discount rates and inflation rates. Asset retirement obligations incurred in the current period were Level 3 fair value measurements. The costs associated with these liabilities are capitalized as part of the related assets and depreciated as the reserves are produced. Over time, the liabilities are accreted for the change in their present value.

Asset retirement obligations for downstream and chemical facilities generally become firm at the time the facilities are permanently shut down and dismantled. These obligations may include the costs of asset disposal and additional soil remediation. However, these sites generally have indeterminate lives based on plans for continued operations, and as such, the fair value of the conditional legal obligations cannot be measured, since it is impossible to estimate the future settlement dates of such obligations. Note 5 to the consolidated financial statements provides a three-year continuity table detailing the changes in asset retirement obligations.

The company accrues environmental liabilities when it is probable that obligations have been incurred and the amount can be reasonably estimated. Provisions for environmental liabilities are determined based on engineering estimated costs, taking into account the anticipated method and extent of remediation consistent with legal requirements, current technology and the possible use of the location. These provisions are not reduced by possible recoveries from third parties and projected cash expenditures are not discounted.

Foreign-currency translation

Monetary assets and liabilities in foreign currencies have been translated at the rates of exchange prevailing on December 31. Any exchange gains or losses are recognized in income.

2. Business segments

The company operates its business in Canada, and its reportable segments are Upstream, Downstream and Chemical. The factors used to identify these reportable segments are based on the nature of the operations that are undertaken by each segment and the structure of the company's internal organization. The Upstream segment is organized and operates to explore for and ultimately produce crude oil and its equivalent, and natural gas. The Downstream segment is organized and operates to refine crude oil into petroleum products and to distribute and market these products. The Chemical segment is organized and operates to manufacture and market hydrocarbon-based chemicals and chemical products. The above segmentation has been the long-standing practice of the company and is broadly understood across the petroleum and petrochemical industries.

Corporate and other includes assets and liabilities that do not specifically relate to business segments – primarily cash, capitalized interest costs, short-term borrowings, long-term debt and liabilities associated with incentive compensation, pension and other postretirement benefit liabilities. Net earnings effects under Corporate and other activities primarily include debt-related financing, corporate governance costs, non-service pension and postretirement benefit costs, share-based incentive compensation expenses and interest income.

Segment accounting policies are the same as those described in note 1, "Summary of significant accounting policies". Upstream, Downstream and Chemical expenses include amounts allocated from Corporate and other activities. The allocation is based on proportional segment expenses. Transfers of assets between segments are recorded at book amounts. Intersegment sales are made essentially at prevailing market prices. Assets and liabilities that are not identifiable by segment are allocated.

millions of Canadian dollars	Upstream			Downstream			Chemical		
	2023	2022	2021	2023	2022	2021	2023	2022	2021
Revenues and other income									
Revenues (a) (b)	222	494	5,863	49,241	57,466	30,207	1,239	1,453	1,438
Intersegment sales (c)	16,274	19,135	9,956	6,509	7,476	4,520	342	523	319
Investment and other income (note 8, 18)	16	135	12	108	43	59	—	—	1
	16,512	19,764	15,831	55,858	64,985	34,786	1,581	1,976	1,758
Expenses									
Exploration (note 15)	5	5	32	—	—	—	—	—	—
Purchases of crude oil and products (c) (note 11)	6,636	7,971	7,492	47,886	55,569	29,505	997	1,330	966
Production and manufacturing	4,917	5,491	4,661	1,702	1,640	1,445	260	273	210
Selling and general	—	—	—	693	653	572	89	85	90
Federal excise tax and fuel charge	—	—	—	2,399	2,177	1,928	3	2	—
Depreciation and depletion	1,680	1,673	1,775	183	179	158	15	18	18
Non-service pension and postretirement benefit	—	—	—	—	—	—	—	—	—
Financing (note 12)	7	5	15	—	1	—	—	—	—
Total expenses	13,245	15,145	13,975	52,863	60,219	33,608	1,364	1,708	1,284
Income (loss) before income taxes (note 11)	3,267	4,619	1,856	2,995	4,766	1,178	217	268	474
Income tax expense (benefit) (note 3)	755	974	461	694	1,144	283	53	64	113
Net income (loss) (c) (note 11)	2,512	3,645	1,395	2,301	3,622	895	164	204	361
Cash flows from (used in) operating activities (c)	3,100	5,834	4,913	608	4,415	179	53	276	421
Capital and exploration expenditures (d)	1,108	1,128	632	472	295	476	23	10	8
Property, plant and equipment									
Cost	46,776	45,784	48,200	7,368	6,926	6,772	1,018	995	984
Accumulated depreciation and depletion	(19,936)	(18,835)	(20,389)	(4,301)	(4,143)	(4,096)	(757)	(741)	(721)
Net property, plant and equipment (e)	26,840	26,949	27,811	3,067	2,783	2,676	261	254	263
Total assets (c)	28,718	28,830	29,416	10,114	9,277	7,945	475	491	474

millions of Canadian dollars	Corporate and other			Eliminations			Consolidated		
	2023	2022	2021	2023	2022	2021	2023	2022	2021
Revenues and other income									
Revenues (a) (b)	—	—	—	—	—	—	50,702	59,413	37,508
Intersegment sales (c)	—	—	—	(23,125)	(27,134)	(14,795)	—	—	—
Investment and other income (note 8, 18)	143	79	10	—	—	—	267	257	82
	143	79	10	(23,125)	(27,134)	(14,795)	50,969	59,670	37,590
Expenses									
Exploration (note 15)	—	—	—	—	—	—	5	5	32
Purchases of crude oil and products (c) (note 11)	—	—	—	(23,120)	(27,128)	(14,789)	32,399	37,742	23,174
Production and manufacturing	—	—	—	—	—	—	6,879	7,404	6,316
Selling and general	80	150	128	(5)	(6)	(6)	857	882	784
Federal excise tax and fuel charge	—	—	—	—	—	—	2,402	2,179	1,928
Depreciation and depletion	29	27	26	—	—	—	1,907	1,897	1,977
Non-service pension and postretirement benefit	82	17	42	—	—	—	82	17	42
Financing (note 12)	62	54	39	—	—	—	69	60	54
Total expenses	253	248	235	(23,125)	(27,134)	(14,795)	44,600	50,186	34,307
Income (loss) before income taxes (note 11)	(110)	(169)	(225)	—	—	—	6,369	9,484	3,283
Income tax expense (benefit) (note 3)	(22)	(38)	(53)	—	—	—	1,480	2,144	804
Net income (loss) (c) (note 11)	(88)	(131)	(172)	—	—	—	4,889	7,340	2,479
Cash flows from (used in) operating activities (c)	(37)	(59)	(47)	10	16	10	3,734	10,482	5,476
Capital and exploration expenditures (d)	175	57	24	—	—	—	1,778	1,490	1,140
Property, plant and equipment									
Cost	1,038	863	806	—	—	—	56,200	54,568	56,762
Accumulated depreciation and depletion	(371)	(343)	(316)	—	—	—	(25,365)	(24,062)	(25,522)
Net property, plant and equipment (e)	667	520	490	—	—	—	30,835	30,506	31,240
Total assets (c)	2,366	5,312	3,196	(474)	(386)	(249)	41,199	43,524	40,782

- (a) Includes export sales to the United States of \$8,982 million (2022 - \$12,394 million, 2021 - \$7,228 million).
- (b) Revenues include both revenue within the scope of ASC 606 and outside the scope of ASC 606. Trade receivables in "Accounts receivable – net" reported on the Consolidated balance sheet include both receivables within the scope of ASC 606 and outside the scope of ASC 606. Revenue and receivables outside the scope of ASC 606 primarily relate to physically settled commodity contracts accounted for as derivatives. Contractual terms, credit quality and type of customer are generally similar between contracts within the scope of ASC 606 and those outside it.

Revenues	2023	2022	2021
millions of Canadian dollars			
Revenue from contracts with customers	44,465	52,265	34,275
Revenue outside the scope of ASC 606	6,237	7,148	3,233
Total	50,702	59,413	37,508

- (c) In 2021, the Downstream segment acquired a portion of Upstream crude inventory for \$444 million. There was no earnings impact and the effects of this transaction have been eliminated for consolidation purposes.
- (d) Capital and exploration expenditures (CAPEX) include exploration expenses, additions to property, plant and equipment, additions to finance leases, additional investments and acquisitions and the company's share of similar costs for equity companies. CAPEX excludes the purchase of carbon emission credits.
- (e) Includes property, plant and equipment under construction of \$3,251 million (2022 - \$2,676 million, 2021 - \$2,348 million).

3. Income taxes

millions of Canadian dollars	2023	2022	2021
Current income tax expense (benefit)	1,556	2,228	711
Deferred income tax expense (benefit)	(76)	(84)	93
Total income tax expense (benefit)	1,480	2,144	804
Statutory corporate tax rate (percent)	24.1	24.1	24.0
Increase (decrease) resulting from:			
Other (a)	(0.9)	(1.5)	0.5
Effective income tax rate (percent)	23.2	22.6	24.5

- (a) Other primarily relates to prior year adjustments, disposals, investment tax credits and re-assessments. In 2022, the company's sale of its interests in XTO Energy Canada decreased the effective income tax rate by 1.3 percent.

Deferred income taxes are based on differences between the accounting and tax values of assets and liabilities. These differences in value are re-measured at each year-end using the tax rates and tax laws expected to apply when those differences are realized or settled in the future. Components of deferred income tax liabilities and assets as at December 31 were:

millions of Canadian dollars	2023	2022	2021
Depreciation and amortization	5,366	5,388	5,284
Successful drilling and land acquisitions	237	236	331
Pension and benefits	(168)	(105)	(303)
Asset retirement obligation	(655)	(529)	(418)
Capitalized interest	155	127	120
LIFO inventory valuation	(406)	(454)	(413)
Tax loss carryforwards	(69)	(84)	(42)
Valuation allowance	69	73	—
Other	(60)	(53)	(101)
Net deferred income tax liabilities	4,469	4,599	4,458

Unrecognized tax benefits

Unrecognized tax benefits reflect the difference between positions taken or expected to be taken on income tax returns and the amounts recognized in the financial statements.

The following table summarizes the movement in unrecognized tax benefits:

millions of Canadian dollars	2023	2022	2021
Balance as of January 1	60	47	36
Additions based on current year's tax position	7	12	16
Additions for prior years' tax positions	—	10	—
Settlements with tax authorities	(20)	(9)	(5)
Balance as of December 31	47	60	47

The unrecognized tax benefit balances shown above are predominantly related to tax positions that would reduce the company's effective tax rate if the positions are favourably resolved. Unfavourable resolution of these tax positions generally would not increase the effective tax rate. The 2023, 2022 and 2021 changes in unrecognized tax benefits did not have a material effect on the company's net income or cash flow. The company's tax filings from 2018 to 2023 are subject to examination by the tax authorities. Tax filings from 2009 to 2017 have open objections and therefore are also subject to examination by the tax authorities. The Canada Revenue Agency has made certain adjustments to the company's filings. Management has evaluated these adjustments and is formally disputing those matters to which the company disagrees. Many of these outstanding matters will not be resolved until after 2024. The impact on unrecognized tax benefits and the company's effective income tax rate from these matters is not expected to be material.

Resolution of the related tax positions could take many years to complete. It is difficult to predict the timing of resolution for tax positions since such timing is not entirely within the control of the company.

The company classifies interest on income tax related balances as interest expense or interest income and classifies tax related penalties as operating expense.

Unrecognized tax benefits are not classified as future commitments because the company does not expect there will be any cash impact from the final settlements as sufficient funds have been deposited with the Canada Revenue Agency.

4. Employee retirement benefits

Retirement benefits, which cover almost all retired employees and their surviving spouses, include pension income and certain health care and life insurance benefits. They are met through funded registered retirement plans and through unfunded supplementary benefits that are paid directly to recipients.

Pension income benefits consist mainly of company-paid defined benefit plans that are based on years of service and final average earnings. The company shares in the cost of health care and life insurance benefits. The company's benefit obligations are based on the projected benefit method of valuation that includes employee service to date and present compensation levels, as well as a projection of salaries to retirement.

The expense and obligations for both funded and unfunded benefits are determined in accordance with accepted actuarial practices and U.S. GAAP. The process for determining retirement-income expense and related obligations includes making certain long-term assumptions regarding the discount rate, rate of return on plan assets and rate of compensation increases. The obligation and pension expense can vary significantly with changes in the assumptions used to estimate the obligation and the expected return on plan assets.

The benefit obligations and plan assets associated with the company's defined benefit plans are measured on December 31.

	Pension benefits		Other postretirement benefits	
	2023	2022	2023	2022
Assumptions used to determine benefit obligations at December 31 (percent)				
Discount rate	4.60	5.10	4.60	5.10
Long-term rate of compensation increase	4.00	4.00	4.00	4.00

millions of Canadian dollars

Change in benefit obligation				
Benefit obligation at January 1	7,374	9,850	589	818
Service cost	162	280	12	23
Interest cost	373	295	28	24
Actuarial loss (gain) (a)	514	(2,528)	(14)	(248)
Amendments	184	—	—	—
Benefits paid (b)	(453)	(523)	(34)	(28)
Benefit obligation at December 31	8,154	7,374	581	589

Accumulated benefit obligation at December 31 **7,449** 6,820

(a) Actuarial loss (gain) primarily driven by changes in the year-end discount rate and salary experience.

(b) Benefit payments for funded and unfunded plans.

The discount rate for the purpose of calculating year-end postretirement benefits plan obligation is determined by using the Canadian Institute of Actuaries recommended spot yield curve for high-quality, long-term Canadian corporate bonds with an average maturity (or duration) approximating that of the liabilities. For the measurement of the accumulated postretirement benefit obligation, the assumed health care cost trend rates start with 5.80 percent in 2024 and gradually decline to 3.57 percent by 2043 and beyond.

millions of Canadian dollars	Pension benefits		Other postretirement benefits	
	2023	2022	2023	2022
Change in plan assets				
Fair value at January 1	7,541	9,440		
Actual return (loss) gain	785	(1,594)		
Company contributions	148	174		
Benefits paid (a)	(420)	(479)		
Fair value at December 31	8,054	7,541		

Plan assets in excess of (less than) projected benefit obligation at December 31

Funded plans	335	543		
Unfunded plans	(435)	(376)	(581)	(589)
Total (b)	(100)	167	(581)	(589)

(a) Benefit payments for funded plans only.

(b) Fair value of assets less projected benefit obligation shown above.

Funding of registered retirement plans complies with federal and provincial pension regulations, and the company makes contributions to the plans based on an independent actuarial valuation. In accordance with authoritative guidance relating to the accounting for defined pension and other postretirement benefits plans, the overfunded or underfunded status of the company's defined benefit postretirement plans was recorded as an asset or liability in the Consolidated balance sheet, and the changes in that funded status in the year in which the changes occurred was recognized through other comprehensive income.

millions of Canadian dollars	Pension benefits		Other postretirement benefits	
	2023	2022	2023	2022
Amounts recorded in the Consolidated balance sheet consist of:				
Other assets, including intangibles - net	335	543	—	—
Current liabilities	(34)	(35)	(28)	(28)
Other long-term obligations	(401)	(341)	(553)	(561)
Total recorded	(100)	167	(581)	(589)
Amounts recorded in accumulated other comprehensive income consist of:				
Net actuarial loss (gain)	724	666	(89)	(84)
Prior service cost	400	235	—	—
Total recorded in accumulated other comprehensive income, before-tax	1,124	901	(89)	(84)

The company establishes the long-term expected rate of return on plan assets by developing a forward-looking long-term return assumption for each asset class, taking into account factors such as the expected real return for the specific asset class and inflation. A single, long-term rate of return is then calculated as the weighted average of the target asset allocation percentages and the long-term return assumption for each asset class. The 2023 long-term expected return of 4.8 percent used in the calculations of pension expense compares to an actual rate of return of 5.7 percent and 6.1 percent over the last 10- and 20-year periods respectively, ending December 31, 2023.

	Pension benefits			Other postretirement benefits		
	2023	2022	2021	2023	2022	2021
Assumptions used to determine net periodic benefit cost for years ended December 31 (percent)						
Discount rate	5.10	3.00	2.50	5.10	3.00	2.50
Long-term rate of return on funded assets	4.80	4.30	4.50	—	—	—
Long-term rate of compensation increase	4.00	4.00	4.00	4.00	4.00	4.00

millions of Canadian dollars

Components of net periodic benefit cost						
Service cost	162	280	324	12	23	28
Interest cost	373	295	271	28	24	22
Expected return on plan assets	(373)	(412)	(427)	—	—	—
Amortization of prior service cost	19	17	17	—	—	—
Amortization of actuarial loss (gain)	44	84	143	(9)	9	16
Net periodic benefit cost	225	264	328	31	56	66
Changes in amounts recorded in accumulated other comprehensive income						
Net actuarial loss (gain)	102	(522)	(817)	(14)	(248)	(83)
Amortization of net actuarial (loss) gain included in net periodic benefit cost	(44)	(84)	(143)	9	(9)	(16)
Prior service cost	184	—	—	—	—	—
Amortization of prior service cost included in net periodic benefit cost	(19)	(17)	(17)	—	—	—
Total recorded in other comprehensive income	223	(623)	(977)	(5)	(257)	(99)
Total recorded in net periodic benefit cost and other comprehensive income, before-tax	448	(359)	(649)	26	(201)	(33)

Costs for defined contribution plans, primarily the employee savings plan, were \$44 million in 2023 (2022 - \$43 million, 2021 - \$47 million).

A summary of the change in accumulated other comprehensive income is shown in the table below:

millions of Canadian dollars	Total pension and other postretirement benefits		
	2023	2022	2021
(Charge) credit to other comprehensive income, before-tax	(218)	880	1,076
Deferred income tax (charge) credit (note 17)	53	(215)	(264)
(Charge) credit to other comprehensive income, after-tax	(165)	665	812

The company's investment strategy for pension plan assets reflects a long-term view, a careful assessment of the risks inherent in plan assets and liabilities and broad diversification to reduce the risk of the portfolio. The pension plan assets are primarily invested in passive global equity and domestic fixed income index funds to diversify risk while minimizing costs. The fixed income funds are largely invested in investment grade corporate and government debt securities with interest rate sensitivity designed to approximate the interest rate sensitivity of plan liabilities. The target asset allocation for the pension plan is reviewed periodically and set based on considerations such as risk, diversification and liquidity. The target asset allocation for equity securities is 30 percent with the remainder in fixed-income securities.

The fair value measurement levels are accounting terms that refer to different methods of valuing assets. The terms do not represent the relative risk or credit quality of an investment.

The 2023 fair value of the pension plan assets, including the level within the fair value hierarchy, is shown in the table below:

millions of Canadian dollars	Fair value measurements at December 31, 2023, using:				Net Asset Value
	Total	Level 1	Level 2	Level 3	
Asset class					
Equity securities					
Canadian	—				—
Non-Canadian	2,347				2,347
Debt securities - Canadian					
Corporate	1,193				1,193
Government	4,251				4,251
Asset backed	—				—
Other	5				5
Equities – Venture capital	124				124
Real Estate	93				93
Cash	41	7			34
Total plan assets at fair value	8,054	7			8,047

The 2022 fair value of the pension plan assets, including the level within the fair value hierarchy, is shown in the table below:

millions of Canadian dollars	Fair value measurements at December 31, 2022, using:				Net Asset Value
	Total	Level 1	Level 2	Level 3	
Asset class					
Equity securities					
Canadian	96				96
Non-Canadian	2,215				2,215
Debt securities - Canadian					
Corporate	1,156				1,156
Government	3,842				3,842
Asset backed	2				2
Equities – Venture capital	199				199
Cash	31	10			21
Total plan assets at fair value	7,541	10			7,531

A summary of pension plans with accumulated benefit obligation and projected benefit obligation in excess of plan assets is shown in the table below:

millions of Canadian dollars	Pension benefits	
	2023	2022
For funded pension plans with projected benefit obligation in excess of plan assets: (a)		
Projected benefit obligation	—	—
Fair value of plan assets	—	—
Projected benefit obligation less fair value of plan assets	—	—
For unfunded pension plans covered by book reserves:		
Projected benefit obligation	435	376
Accumulated benefit obligation	395	353

(a) In 2023 and 2022, the fair value of plan assets exceeded the projected benefit obligation for both the company sponsored plan and its proportionate share of a joint venture sponsored plan.

Cash flows

Benefit payments expected in:

millions of Canadian dollars	Pension benefits	Other postretirement benefits
2024	490	29
2025	490	29
2026	490	29
2027	490	29
2028	490	30
2029 - 2033	2,450	154

In 2024, the company expects to make cash contributions of about \$150 million to its pension plans.

5. Other long-term obligations

millions of Canadian dollars	2023	2022
Employee retirement benefits (a) (note 4)	954	902
Asset retirement obligations and other environmental liabilities (b) (c)	2,564	2,150
Share-based incentive compensation liabilities (note 7)	90	101
Operating lease liability (note 13)	111	151
Other obligations	132	163
Total other long-term obligations	3,851	3,467

- (a) Total recorded employee retirement benefits obligations also included \$62 million in current liabilities (2022 – \$63 million).
 (b) Total asset retirement obligations and other environmental liabilities also included \$235 million in current liabilities (2022 – \$116 million).
 (c) For 2023, the asset retirement obligations were discounted at 6 percent (2022 - 6 percent). Asset retirement obligations incurred in the current period were level 3 fair value measurements.

The following table summarizes the activity in the liability for asset retirement obligations:

millions of Canadian dollars	2023	2022	2021
Balance as at January 1	2,178	1,721	1,674
Additions (deductions)	471	415	6
Accretion	132	101	99
Settlement	(78)	(59)	(58)
Balance as at December 31	2,703	2,178	1,721

Estimated cash payments for asset retirement obligations are \$169 million in 2024 and \$162 million in 2025.

6. Financial and derivative instruments

Financial instruments

The fair value of the company's financial instruments is determined by reference to various market data and other appropriate valuation techniques. There are no material differences between the fair value of the company's financial instruments and the recorded carrying value. At December 31, 2023 and December 31, 2022, the fair value of long-term debt (\$3,447 million, excluding finance lease obligations) was primarily a level 2 measurement.

Derivative instruments

The company's size, strong capital structure and the complementary nature of its business segments reduce the company's enterprise-wide risk from changes in commodity prices, currency rates and interest rates. In addition, the company uses commodity-based contracts, including derivatives, to manage commodity price risk and to generate returns from trading. Commodity contracts held for trading purposes are presented in the Consolidated statement of income on a net basis in the line "Revenues" and in the Consolidated statement of cash flows in "Cash flows from (used in) operating activities". The company's commodity derivatives are not accounted for under hedge accounting.

Credit risk associated with the company's derivative position is mitigated by several factors, including the use of derivative clearing exchanges and the quality of and financial limits placed on derivative counterparties. The company maintains a system of controls that includes the authorization, reporting and monitoring of derivative activity.

At December 31, the net notional long / (short) position of derivative instruments was:

thousands of barrels	2023	2022
Crude	(4,450)	1,800
Products	(490)	(350)

Realized and unrealized gain or (loss) on derivative instruments recognized in the Consolidated statement of income is included in the following lines on a before-tax basis:

millions of Canadian dollars	2023	2022	2021
Revenues	(5)	148	(46)
Purchases of crude oil and products	—	—	(33)
Total	(5)	148	(79)

The estimated fair value of derivative instruments, and the related hierarchy level for the fair value measurement were as follows:

At December 31, 2023
millions of Canadian dollars

	Fair value				Effect of counterparty netting	Effect of collateral netting	Net carrying value
	Level 1	Level 2	Level 3	Total			
Assets							
Derivative assets (a)	28	18	—	46	(16)	(12)	18
Liabilities							
Derivative liabilities (b)	16	31	—	47	(16)	—	31

(a) Included in the Consolidated balance sheet line: "Materials, supplies and prepaid expenses", "Accounts receivable - net" and "Other assets, including intangibles - net".

(b) Included in the Consolidated balance sheet line: "Accounts payable and accrued liabilities" and "Other long-term obligations".

At December 31, 2022
 millions of Canadian dollars

	Fair value				Effect of counterparty netting	Effect of collateral netting	Net carrying value
	Level 1	Level 2	Level 3	Total			
Assets							
Derivative assets (a)	17	32	—	49	(27)	—	22
Liabilities							
Derivative liabilities (b)	21	20	—	41	(27)	(4)	10

(a) Included in the Consolidated balance sheet line: "Materials, supplies and prepaid expenses", "Accounts receivable - net" and "Other assets, including intangibles - net".

(b) Included in the Consolidated balance sheet line: "Accounts payable and accrued liabilities" and "Other long-term obligations".

At December 31, 2023, and December 31, 2022, the company had \$24 million and \$14 million, respectively, of collateral under a master netting arrangement not offset against the derivatives on the Consolidated balance sheet in "Accounts receivable - net", primarily related to initial margin requirements.

7. Share-based incentive compensation programs

Share-based incentive compensation programs are designed to retain selected employees, reward them for high performance and promote individual contribution to sustained improvement in the company's future business performance and shareholder value over the long-term. The nonemployee directors also participate in share-based incentive compensation programs.

Restricted stock units and deferred share units

Under the restricted stock unit plan, each unit entitles the recipient to the conditional right to receive from the company, upon vesting, an amount equal to the value of one common share of the company, based on the five-day average of the closing price of the company's common shares on the Toronto Stock Exchange on and immediately prior to the vesting dates. For the majority of the units, 50 percent of the units vest on the third anniversary of the grant date, and the remainder vest on the seventh anniversary of the grant date. Some management, professional, and technical participants will receive awards granted that vest 100 percent after three years. The company may also issue units to the chairman, president and chief executive officer where 50 percent of the units vest on the fifth anniversary of the grant date and the remainder vest on the tenth anniversary of the grant date, except that for awards granted prior to 2020, the vesting of the tenth anniversary portion is delayed until retirement if later than 10 years.

The deferred share unit plan is made available to nonemployee directors. The nonemployee directors can elect to receive all or part of their eligible directors' fees in units. The number of units granted is determined at the end of each calendar quarter by dividing the dollar amount of the nonemployee director's fees for that calendar quarter elected to be received as deferred share units by the average closing price of the company's shares for the five consecutive trading days ("average closing price") immediately prior to the last day of the calendar quarter. Additional units are granted to represent dividends on unexercised units, and are calculated by dividing the cash dividend payable on the company's shares by the average closing price immediately prior to the payment date for that dividend and multiplying the resulting number by the number of deferred share units held by the recipient, as adjusted for any share splits. Deferred share units cannot be exercised until after termination of service as a director, including termination due to death, and must be exercised in their entirety in one election no later than December 31 of the year following the year of termination of service. On the exercise date, the cash value to be received for the units is determined based on the company's average closing price immediately prior to the date of exercise, as adjusted for any share splits.

All units require settlement by cash payments with the following exceptions. The restricted stock unit program provides that, for units granted to Canadian residents, the recipient may receive one common share of the company per unit or elect to receive the cash payment for the units that vest on the seventh year anniversary of the grant date. For units where 50 percent vest on the fifth anniversary of the grant date and the remainder vest on the tenth anniversary of grant, the recipient may receive one common share of the company per unit or elect to receive cash payment for all that vest.

The company accounts for all units by using the fair-value-based method. The fair value of awards in the form of restricted stock and deferred share units is the market price of the company's stock. Under this method, compensation expense related to the units of these programs is measured each reporting period based on the company's current stock price and is recorded in the Consolidated statement of income over the requisite service period of each award.

The following table summarizes information about these units for the year ended December 31, 2023:

	Restricted stock units	Deferred share units
Outstanding at January 1, 2023	4,036,355	179,884
Granted	949,520	12,219
Vested / Exercised	(651,175)	(154,781)
Forfeited and cancelled	(421,390)	—
Outstanding at December 31, 2023	3,913,310	37,322

In 2023, the before-tax compensation expense charged against income for the restricted stock units and deferred share units was \$52 million (2022 - \$103 million, 2021 - \$89 million). Income tax benefit recognized in income related to this compensation expense for the year was \$13 million (2022 - \$25 million, 2021 - \$22 million). Cash payments of \$68 million were made related to this compensation expense in 2023 (2022 - \$65 million, 2021 - \$48 million).

As of December 31, 2023, there was \$169 million of total before-tax unrecognized compensation expense related to non-vested restricted stock units based on the company's share price at the end of the current reporting period. The weighted-average vesting period of non-vested restricted stock units is 4.1 years. All units under the deferred share programs have vested as of December 31, 2023.

8. Investment and other income

Investment and other income includes gains and losses on asset sales as follows:

millions of Canadian dollars	2023	2022	2021
Proceeds from asset sales	86	904	81
Book value of asset sales	13	746	32
Gain (loss) on asset sales, before tax (a)	73	158	49
Gain (loss) on asset sales, after tax (a)	63	241	43

(a) 2022 included a gain of \$116 million (\$208 million, after tax) from the sale of interests in XTO Energy Canada, which included the removal of a deferred tax liability.

9. Litigation and other contingencies

A variety of claims have been made against the company and its subsidiaries in a number of lawsuits. Management has regular litigation reviews, including updates from corporate and outside counsel to assess the need for accounting recognition or disclosure of these contingencies. The company accrues an undiscounted liability for those contingencies where the incurrence of a loss is probable and the amount can be reasonably estimated. If a range of amounts can be reasonably estimated and no amount within the range is a better estimate than any other amount, then the minimum of the range is accrued. The company does not record liabilities when the likelihood that the liability has been incurred is probable but the amount cannot be reasonably estimated or when the liability is believed to be only reasonably possible or remote. For contingencies where an unfavourable outcome is reasonably possible and which are significant, the company discloses the nature of the contingency and, where feasible, an estimate of the possible loss. For purposes of the company's contingency disclosures, "significant" includes material matters, as well as other matters which management believes should be disclosed. Based on a consideration of all relevant facts and circumstances, the company does not believe the ultimate outcome of any currently pending lawsuits against the company will have a material adverse effect on the company's operations, financial condition, or financial statements taken as a whole.

Additionally, the company has other commitments arising in the normal course of business for operating and capital needs, all of which are expected to be fulfilled with no adverse consequences material to the company's operations or financial condition. Unconditional purchase obligations, as defined by accounting standards, are those long-term commitments that are non-cancellable or cancellable only under certain conditions and that third parties have used to secure financing for the facilities that will provide the contracted goods and services. The company has not entered into any unconditional purchase obligations.

As a result of the completed sale of the remaining company-owned Esso retail sites, the company was contingently liable at December 31, 2023, for guarantees relating to performance under contracts of other third-party obligations totalling \$13 million (2022 - \$17 million).

10. Common shares

At December 31

thousands of shares	2023	2022
Authorized	1,100,000	1,100,000
Outstanding	535,837	584,153

The most recent 12-month normal course issuer bid program came into effect June 29, 2023, under which Imperial continued its existing share purchase program. The program enabled the company to purchase up to a maximum of 29,207,635 common shares (5 percent of the total shares on June 15, 2023) which included shares purchased under the normal course issuer bid and from Exxon Mobil Corporation concurrent with, but outside of the normal course issuer bid. As in the past, Exxon Mobil Corporation advised the company that it intended to participate to maintain its ownership percentage at approximately 69.6 percent. The program completed on October 19, 2023 as a result of the company purchasing the maximum allowable number of shares under the program.

On November 3, 2023, the company commenced a substantial issuer bid pursuant to which it offered to purchase for cancellation up to \$1.5 billion of its common shares through a modified Dutch auction and proportionate tender offer. The substantial issuer bid was completed on December 13, 2023, with the company taking up and paying for 19,108,280 common shares at a price of \$78.50 per share, for an aggregate purchase of \$1.5 billion and 3.4 percent of Imperial's issued and outstanding shares at the close of business on October 30, 2023. This included 13,299,349 shares purchased from Exxon Mobil Corporation by way of a proportionate tender to maintain its ownership percentage at approximately 69.6 percent.

The excess of the purchase cost over the stated value of shares purchased has been recorded as a distribution of earnings reinvested.

The company's common share activities are summarized below:

	Thousands of shares	Millions of dollars
Balance as at January 1, 2021	734,077	1,357
Issued under employee share-based awards	7	—
Purchases at stated value	(56,004)	(105)
Balance as at December 31, 2021	678,080	1,252
Issued under employee share-based awards	—	—
Purchases at stated value	(93,927)	(173)
Balance as at December 31, 2022	584,153	1,079
Issued under employee share-based awards	—	—
Purchases at stated value	(48,316)	(87)
Balance as at December 31, 2023	535,837	992

The following table provides the calculation of basic and diluted earnings per common share and the dividends declared by the company on its outstanding common shares:

	2023	2022	2021
Net income (loss) per common share – basic			
Net income (loss) (millions of Canadian dollars)	4,889	7,340	2,479
Weighted-average number of common shares outstanding (millions of shares)	574.8	640.2	711.6
Net income (loss) per common share (dollars)	8.51	11.47	3.48
Net income (loss) per common share – diluted			
Net income (loss) (millions of Canadian dollars)	4,889	7,340	2,479
Weighted-average number of common shares outstanding (millions of shares)	574.8	640.2	711.6
Effect of employee share-based awards (millions of shares)	1.1	1.3	1.6
Weighted-average number of common shares outstanding, assuming dilution (millions of shares)	575.9	641.5	713.2
Net income (loss) per common share (dollars)	8.49	11.44	3.48
Dividends per common share – declared (dollars)	1.94	1.46	1.03

11. Miscellaneous financial information

LIFO inventory

In 2023, net income included an after-tax gain of \$5 million (2022 – \$62 million gain, 2021 – \$13 million loss) attributable to the effect of changes in last-in, first-out (LIFO) inventories. The replacement cost of inventories was estimated to exceed their LIFO carrying values at December 31, 2023 by about \$2.2 billion (2022 – \$2.0 billion). Inventories of crude oil and products at year-end consisted of the following:

millions of Canadian dollars	2023	2022
Crude oil	979	809
Petroleum products	579	471
Chemical products	66	76
Other	320	158
Total	1,944	1,514

In 2021, the company recorded an unfavourable \$74 million (\$82 million, before tax) inventory adjustment (including the proportionate share of LIFO changes) related to reconciliations of additives and products inventory at equity and third-party terminals. The out-of-period impact of \$57 million (\$63 million, before tax) occurred over a number of years, and has been resolved. The company determined that the adjustment was not material to the consolidated financial statements for the year ended December 31, 2021, or any of the prior periods related to the adjustment. Accordingly, comparative periods presented in the consolidated financial statements have not been restated.

Research and development

Research expenditures are mainly spent on developing technologies to improve bitumen recovery, reduce costs and reduce the environmental impact of upstream operations, including technologies to reduce greenhouse gas emissions intensity, supporting environmental and process improvements in the refineries, as well as accessing ExxonMobil's research worldwide.

The company has scientific research agreements with affiliates of ExxonMobil, which provide for technical and engineering work to be performed by all parties, the exchange of technical information and the assignment and licensing of patents, and patent rights. These agreements provide mutual access to scientific and operating data related to nearly every phase of the petroleum and petrochemical operations of the parties.

Net research and development costs charged to expenses in 2023 were \$84 million (2022 – \$74 million, 2021 – \$89 million). These costs are included in expenses due to the uncertainty of future benefits.

Accounts payable and accrued liabilities

"Accounts payable and accrued liabilities" included accrued taxes other than income taxes of \$455 million at December 31, 2023 (2022 – \$458 million) and other miscellaneous current liabilities of \$726 million at December 31, 2023.

Government assistance

In 2022, the company prospectively adopted the Financial Accounting Standards Board's standard, *Government Assistance (Topic 832)*. The standard requires the annual disclosure of certain types of government assistance not otherwise covered by authoritative accounting guidance. The company receives allowances from governments in the form of emission credits as a result of performing better than facility level expectations for emission targets and records these at a nominal amount in the Consolidated balance sheet. During 2022 and 2023, government assistance was immaterial to the company's financial results.

12. Financing and additional notes and loans payable information

millions of Canadian dollars	2023	2022	2021
Debt-related interest (a)	203	111	63
Capitalized interest	(141)	(57)	(24)
Net interest expense	62	54	39
Other interest	7	6	15
Total financing (b)	69	60	54

(a) Includes related party interest with ExxonMobil.

(b) The weighted-average interest rate on short-term borrowings in 2023 was 4.9 percent (2022 – 2.0 percent, 2021 – 0.2 percent) and on long-term borrowings, with ExxonMobil, in 2023 was 4.9 percent (2022 – 1.9 percent, 2021 – 0.6 percent).

During the fourth quarter of 2023, the company extended the maturity dates of its two existing \$250 million committed lines of credit to November 2024 and November 2025 respectively.

The company has not drawn on any of its outstanding \$500 million of available credit facilities.

In 2021, the company repaid the \$111 million outstanding balance and terminated the non-interest bearing, revolving demand loan under an arrangement with an affiliate company of ExxonMobil.

13. Leases

The company generally purchases the property, plant and equipment used in operations, but there are situations where assets are leased, primarily storage tanks, rail cars, marine vessels and transportation facilities. Right of use assets and lease liabilities are established on the balance sheet for leases with an expected term greater than one year, by discounting the amounts fixed in the lease agreement for the duration of the lease which is reasonably certain, considering the probability of exercising any early termination and extension options. The portion of the fixed payment related to service costs for tankers and finance leases is excluded from the calculation of right of use assets and lease liabilities. Usually, assets are leased only for a portion of their useful lives and are accounted for as operating leases. In limited situations, assets are leased for nearly all of their useful lives and are accounted for as finance leases. In general, leases are capitalized using the company's incremental borrowing rate.

Variable payments under these lease agreements are not significant. Residual value guarantees, restrictions, or covenants related to leases, and transactions with related parties are also not significant. The company's activities as a lessor are not material.

The table below summarizes the total lease cost incurred:

millions of Canadian dollars	2023		2022		2021	
	Operating leases	Finance leases	Operating leases	Finance leases	Operating leases	Finance leases
Operating lease cost	114		119		123	
Short-term and other (net of sublease rental income)	30		40		19	
Amortization of right of use assets		19		19		17
Interest on lease liabilities		29		30		33
Total lease cost	144	48	159	49	142	50

The following table summarizes the amounts related to operating leases and finance leases recorded on the Consolidated balance sheet, weighted-average remaining lease term and weighted-average discount rates applied at December 31:

millions of Canadian dollars	2023		2022	
	Operating leases	Finance leases	Operating leases	Finance leases
Right of use assets				
Included in Other assets, including intangibles - net	196		245	
Included in Property, plant and equipment, less accumulated depreciation and depletion		599		618
Total right of use assets	196	599	245	618
Lease liability due within one year				
Included in Accounts payable and accrued liabilities	87	—	100	—
Included in Notes and loans payable		21		22
Long-term lease liability				
Included in Other long-term obligations	111	—	151	—
Included in Long-term debt		564		586
Total lease liability	198	585	251	608
Weighted-average remaining lease term (years)	6	36	5	37
Weighted-average discount rate (percent)	1.9	4.7	1.1	4.7

The maturity analysis of the company's lease liabilities as at December 31 are summarized below:

millions of Canadian dollars	2023	
	Operating leases	Finance leases
Maturity analysis of lease liabilities		
2024	90	49
2025	38	46
2026	16	44
2027	10	43
2028	9	42
2029 and beyond	46	858
Total lease payments	209	1,082
Discount to present value	(11)	(497)
Total lease liability	198	585

In addition to the operating lease liabilities in the table immediately above, at December 31, 2023, additional undiscounted commitments for leases not yet commenced totalled \$54 million (2022 - \$14 million).

Estimated cash payments for operating and finance leases not yet commenced are \$1 million in 2024 and \$48 million in 2025.

The table below summarizes the cash paid for amounts included in the measurement of lease liabilities and the right of use assets obtained in exchange for new lease liabilities:

millions of Canadian dollars	2023		2022		2021	
	Operating leases	Finance leases	Operating leases	Finance leases	Operating leases	Finance leases
Cash paid for amounts included in the measurement of lease liabilities						
Cash flows from operating activities	56	—	121	—	122	—
Cash flows from financing activities		22		22		20
Non-cash right of use assets recorded for lease liabilities						
In exchange for lease liabilities during the year	61	—	117	—	176	123

14. Long-term debt

At December 31

millions of Canadian dollars	2023	2022
Long-term debt (a) (b)	3,447	3,447
Finance leases (c)	564	586
Total long-term debt	4,011	4,033

- (a) Borrowed under an existing agreement with an affiliated company of ExxonMobil that provides for a long-term, variable-rate, Canadian dollar loan from ExxonMobil to the company of up to \$7.75 billion at interest equivalent to Canadian market rates. The agreement is effective until June 30, 2025, cancellable if ExxonMobil provides at least 370 days advance written notice.
- (b) During the third quarter of 2022, the company decreased its long-term debt by \$1 billion, partially repaying an existing facility with an affiliated company of ExxonMobil.
- (c) Finance leases are primarily associated with transportation facilities and services agreements. The average imputed interest rate was 4.7 percent in 2023 (2022 – 4.7 percent). Total finance lease obligations also include \$21 million in current liabilities (2022 - \$22 million). Principal payments on finance leases of approximately \$18 million on average per year are due in each of the next four years after December 31, 2024.

15. Accounting for suspended exploratory well costs

The company continues capitalization of exploratory well costs when the well has found a sufficient quantity of reserves to justify its completion as a producing well and the company is making sufficient progress assessing the reserves and the economic and operating viability of the project. The term “project” as used in this report can refer to a variety of different activities and does not necessarily have the same meaning as in any government payment transparency reports. The company had no capitalized suspended exploratory well costs as at December 31, 2023, 2022 and 2021.

Exploration activity involves drilling multiple wells, over a number of years, to fully evaluate a project. The company had no projects with exploratory wells costs capitalized as at December 31, 2023, 2022 and 2021.

16. Transactions with related parties

Revenues and expenses of the company also include the results of transactions with affiliated companies of ExxonMobil in the normal course of operations. These were conducted on terms comparable to those which would have been conducted with unrelated parties and primarily consisted of the purchase and sale of crude oil, natural gas, petroleum and chemical products, as well as technical, engineering and research and development costs. Transactions with ExxonMobil also included amounts paid and received in connection with the company's participation in a number of upstream activities conducted jointly in Canada.

In addition, the company has existing agreements with ExxonMobil:

- a) To provide computer and customer support services to the company and to share common business and operational support services that allow the companies to consolidate duplicate work and systems;
- b) To operate certain western Canada production properties owned by ExxonMobil, as well as provide for the delivery of management, business and technical services to ExxonMobil in Canada. These agreements are designed to provide organizational efficiencies and to reduce costs. No separate legal entities were created from these arrangements. Separate books of account continue to be maintained for the company and ExxonMobil. The company and ExxonMobil retain ownership of their respective assets, and there is no impact on operations or reserves;
- c) To provide for the option of equal participation in new upstream opportunities; and
- d) To enter into derivative agreements on each other's behalf.

The company had an existing agreement with ExxonMobil to provide for the delivery of management, business and technical services to Syncrude Canada Ltd. by ExxonMobil, which was terminated in connection with the transfer of operatorship of Syncrude on September 30, 2021.

Certain charges from ExxonMobil have been capitalized; they are not material in the aggregate.

The amounts of purchases and revenues by Imperial in 2023, with ExxonMobil, were \$4,026 million and \$13,544 million respectively (2022 - \$3,719 million and \$17,042 million respectively).

As at December 31, 2023, the company had an outstanding long-term loan of \$3,447 million (2022 – \$3,447 million) from ExxonMobil (see note 14, "Long-term debt", and note 12, "Financing and additional notes and loans payable information" for further details). The amount of financing costs with ExxonMobil were \$169 million (2022 - \$78 million).

Imperial has other related party transactions not detailed above in note 16, as they are not significant.

17. Other comprehensive income (loss) information

Changes in accumulated other comprehensive income (loss):

millions of Canadian dollars	2023	2022	2021
Balance at January 1	(512)	(1,177)	(1,989)
Postretirement benefits liability adjustment:			
Current period change excluding amounts reclassified from accumulated other comprehensive income	(206)	582	679
Amounts reclassified from accumulated other comprehensive income	41	83	133
Balance at December 31	(677)	(512)	(1,177)

Amounts reclassified out of accumulated other comprehensive income (loss) - before-tax income (expense):

millions of Canadian dollars	2023	2022	2021
Amortization of postretirement benefits liability adjustment included in net benefit cost (a)	(54)	(110)	(176)

(a) This accumulated other comprehensive income component is included in the computation of net periodic benefit cost (note 4).

Income tax expense (credit) for components of other comprehensive income (loss):

millions of Canadian dollars	2023	2022	2021
Postretirement benefits liability adjustments:			
Postretirement benefits liability adjustment (excluding amortization)	(66)	188	221
Amortization of postretirement benefits liability adjustment included in net benefit cost	13	27	43
Total	(53)	215	264

18. Divestment activities

Jointly with ExxonMobil Canada, Imperial signed an agreement in the second quarter of 2022 with Whitecap Resources Inc. for the sale of its interests in XTO Energy Canada which included assets in the Montney and Duvernay areas of central Alberta, for total cash consideration of approximately \$1.9 billion (\$0.9 billion Imperial's share). The transaction closed on August 31, 2022 and the company recognized a gain of approximately \$0.2 billion, after tax. Imperial's total assets associated with this transaction included about \$0.9 billion (about \$0.8 billion of property, plant and equipment) and about \$0.2 billion total liabilities in the Upstream segment.

Supplemental information on oil and gas exploration and production activities (unaudited)

The information on pages 66 to 67 excludes items not related to oil and natural gas extraction, such as administrative and general expenses, pipeline operations, gas plant processing fees and gains or losses on asset sales. The company's 25 percent interest in proved synthetic crude oil reserves in the Syncrude joint-venture is included as part of the company's total proved oil and gas reserves and in the calculation of the standardized measure of discounted future cash flows, in accordance with U.S. Securities and Exchange Commission (SEC) and U.S. Financial Accounting Standards Board rules. Results of operations, costs incurred in property acquisitions, exploration and development activities, and capitalized costs include the company's share of Kearn, Syncrude and other unproved mineable acreages in the following tables.

Results of operations

millions of Canadian dollars	2023	2022	2021
Revenue			
Sales to third parties (a)	6,420	7,154	5,081
Transfers (a) (b)	3,220	4,182	3,037
	9,640	11,336	8,118
Production expenses	5,015	5,521	4,728
Exploration expenses	5	5	32
Depreciation and depletion	1,475	1,467	1,579
Income taxes	733	1,030	457
Results of operations	2,412	3,313	1,322

The amounts reported as costs incurred in property acquisitions, exploration and development activities include both capitalized costs and costs charged to expense during the year. Costs incurred also include new asset retirement obligations established in the current year, as well as increases or decreases to the asset retirement obligation resulting from changes in cost estimates or abandonment date.

Costs incurred in property acquisitions, exploration and development activities

millions of Canadian dollars	2023	2022	2021
Property costs (c)			
Proved	—	—	—
Unproved	—	—	—
Exploration costs	5	5	32
Development costs	1,580	1,602	576
Total costs incurred in property acquisitions, exploration and development activities	1,585	1,607	608

- (a) Sales to third parties or transfers do not include the sale of natural gas and natural gas liquids purchased for resale, as well as royalty payments or diluent costs. These items are reported gross in note 2 in "Revenues", "Intersegment sales" and in "Purchases of crude oil and products".
- (b) Sales of crude oil to consolidated affiliates are at market value, using posted field prices. Sales of natural gas liquids to consolidated affiliates are at prices estimated to be obtainable in a competitive, arm's-length transaction.
- (c) "Property costs" are payments for rights to explore for petroleum and natural gas and for purchased reserves (acquired tangible and intangible assets such as gas plants, production facilities and producing-well costs are included under "producing assets"). "Proved" represents areas where successful drilling has delineated a field capable of production. "Unproved" represents all other areas.

Capitalized costs

millions of Canadian dollars	2023	2022
Property costs (a)		
Proved	1,840	1,840
Unproved	493	493
Producing assets	39,759	39,075
Incomplete construction	2,683	2,375
Total capitalized cost	44,775	43,783
Accumulated depreciation and depletion	(19,568)	(18,512)
Net capitalized costs	25,207	25,271

(a) "Property costs" are payments for rights to explore for petroleum and natural gas and for purchased reserves (acquired tangible and intangible assets such as gas plants, production facilities and producing-well costs are included under "producing assets"). "Proved" represents areas where successful drilling has delineated a field capable of production. "Unproved" represents all other areas.

Standardized measure of discounted future cash flows

As required by the U.S. Financial Accounting Standards Board, the standardized measure of discounted future net cash flows is computed by applying first-day-of-the-month average prices, year-end costs and legislated tax rates, and a discount factor of 10 percent to net proved reserves. The standardized measure includes costs for future dismantlement, abandonment and remediation obligations. The company believes the standardized measure does not provide a reliable estimate of the company's expected future cash flows to be obtained from the development and production of its oil and gas properties or of the value of its proved oil and gas reserves. The standardized measure is prepared on the basis of certain prescribed assumptions, including first-day-of-the-month average prices, which represent discrete points in time and therefore may cause significant variability in cash flows from year to year as prices change.

Standardized measure of discounted future net cash flows related to proved oil and gas reserves

millions of Canadian dollars	2023	2022	2021
Future cash flows	158,347	198,923	161,577
Future production costs	(101,640)	(104,765)	(101,580)
Future development costs	(24,074)	(23,392)	(21,903)
Future income taxes	(7,016)	(16,872)	(8,192)
Future net cash flows	25,617	53,894	29,902
Annual discount of 10 percent for estimated timing of cash flows	(11,615)	(28,340)	(15,732)
Discounted future cash flows	14,002	25,554	14,170

Changes in standardized measure of discounted future net cash flows related to proved oil and gas reserves

millions of Canadian dollars	2023	2022	2021
Balance at beginning of year	25,554	14,170	(62)
Changes resulting from:			
Sales and transfers of oil and gas produced, net of production costs	(4,918)	(6,113)	(3,841)
Net changes in prices, development costs and production costs (a)	(16,908)	23,215	7,681
Extensions, discoveries, additions and improved recovery, less related costs	58	664	52
Development costs incurred during the year	1,182	1,160	650
Revisions of previous quantity estimates	2,146	(4,431)	13,482
Accretion of discount	2,535	1,439	24
Net change in income taxes	4,353	(4,550)	(3,816)
Net change	(11,552)	11,384	14,232
Balance at end of year	14,002	25,554	14,170

(a) SEC rules require the company's reserves to be calculated on the basis of average first-day-of-the-month oil and natural gas prices during the reporting year. Future net cash flows are determined based on the net proved reserves as outlined in the "Net proved reserves table".

Net proved reserves (a)

	Liquids (b)	Natural gas	Synthetic crude oil	Bitumen	Total oil-equivalent basis (c)
	millions of barrels	billions of cubic feet	millions of barrels	millions of barrels	millions of barrels
Beginning of year 2021	7	168	444	81	560
Revisions	13	165	17	2,239	2,297
Improved recovery	—	—	—	2	2
(Sale) purchase of reserves in place	—	(10)	—	—	(2)
Discoveries and extensions	—	—	—	—	—
Production	(4)	(42)	(23)	(106)	(140)
End of year 2021	16	281	438	2,216	2,717
Revisions	—	(41)	(62)	(363)	(432)
Improved recovery	—	—	—	—	—
(Sale) purchase of reserves in place	(9)	(141)	—	—	(32)
Discoveries and extensions	—	2	—	67	67
Production	(3)	(29)	(23)	(96)	(127)
End of year 2022	4	72	353	1,824	2,193
Revisions	(2)	2	26	90	114
Improved recovery	—	—	—	—	—
(Sale) purchase of reserves in place	—	(1)	—	—	—
Discoveries and extensions	—	—	—	—	—
Production	(2)	(12)	(25)	(103)	(132)
End of year 2023	—	61	354	1,811	2,175

Net proved developed reserves included above, as of

January 1, 2021	7	167	311	76	422
December 31, 2021	14	205	326	1,957	2,331
December 31, 2022	4	60	248	1,691	1,953
December 31, 2023	—	53	242	1,706	1,957

Net proved undeveloped reserves included above, as of

January 1, 2021	—	1	133	5	138
December 31, 2021	2	76	112	259	386
December 31, 2022	—	12	105	133	240
December 31, 2023	—	8	112	105	218

(a) Net reserves are the company's share of reserves after deducting the shares of mineral owners or governments or both. All reported reserves are located in Canada. Reserves of natural gas are calculated at a pressure of 14.73 pounds per square inch at 60°F.

(b) Liquids include crude, condensate and natural gas liquids (NGLs). NGL proved reserves are not material and are therefore included under liquids.

(c) Gas converted to oil-equivalent at six million cubic feet per one thousand barrels.

The information above describes changes during the years and balances of proved oil and gas reserves at year-end 2021, 2022 and 2023. The definitions used are in accordance with the SEC Rule 4-10 (a) of Regulation S-X.

Proved oil and natural gas reserves are those quantities of oil and gas, which, by analysis of geoscience and engineering data, can be estimated with reasonable certainty to be economically producible – from a given date forward, from known reservoirs, and under existing economic conditions, operating methods and government regulations – prior to the time at which contracts providing the right to operate expire. In some cases, substantial new investments in additional wells and other facilities will be required to recover these proved reserves.

In accordance with SEC rules, the year-end reserves volumes, as well as the reserves change categories shown in the proved reserves tables are required to be calculated on the basis of average prices during the 12-month period prior to the ending date of the period covered by the report, determined as an unweighted arithmetic average of the first-day-of-the-month price for each month within such period. These reserves quantities were also used in calculating unit-of-production depreciation rates and in calculating the standardized measure of discounted net cash flow.

Revisions in previously estimated volumes of proved reserves for existing fields can occur due to the evaluation or re-evaluation of already available geologic, reservoir or production data; new geologic, reservoir or production data; or changes in the average of first-day-of-the-month oil and natural gas prices and / or costs that are used in the estimation of reserves. Revisions can also result from significant changes in either development strategy or production equipment and facility capacity.

In 2021, upward revisions of proved bitumen reserves were a result of improved prices. The 1.7 billion barrels of bitumen at Kearl and 0.5 billion barrels of bitumen at Cold Lake qualified as proved reserves under the SEC definition of proved reserves. Upward revisions to proved synthetic crude oil reserves were a result of improved prices. Changes to the liquids and natural gas proved reserves were the result of updated development plans and divestments at the Montney and Duvernay unconventional assets.

In 2022, downward revisions of proved bitumen reserves were driven by a decrease of 0.2 billion barrels at Kearl as a result of higher royalty obligations associated with pricing, and a decrease of 0.2 billion barrels at Cold Lake due to an updated development plan. An increase to the bitumen reserves of 0.1 billion barrels is associated with extensions at Cold Lake for the Grand Rapids Phase 1 SA-SAGD and Leming SAGD projects. Downward revisions to proved synthetic crude oil reserves were a result of mine development plan updates and higher royalty obligations at Syncrude associated with pricing. Changes to the liquids and natural gas proved reserves were primarily a result of the sale of the company's interest in the Montney and Duvernay unconventional assets.

In 2023, upward revisions of proved bitumen of 0.1 billion barrels were driven by lower royalty obligations associated with lower pricing and minor technical revisions at Cold Lake and Kearl. A slight increase in proved reserves for synthetic crude oil is associated with lower royalty obligations associated with pricing. Conventional proved liquids reserves decreased to zero under existing pricing and operating conditions.

Under the terms of certain contractual arrangements or government royalty regimes, lower prices can also increase proved reserves attributable to the company. The company's operating decisions and its outlook for future production volumes are not impacted by proved reserves as disclosed under the SEC definition.

Net proved reserves are determined by deducting the estimated future share of mineral owners or governments or both. For liquids and natural gas, net proved reserves are based on estimated future royalty rates as of the date the estimate is made incorporating the applicable governments' oil and gas royalty regimes. For bitumen, net proved reserves are based on the company's best estimate of average royalty rates over the remaining life of each of the Cold Lake and Kearl fields, and they incorporate the Alberta government's oil sands royalty regime. For synthetic crude oil, net proved reserves are based on the company's best estimate of average royalty rates over the remaining life of the project, and they incorporate the Alberta government's oil sands royalty regime. In all cases, actual future royalty rates may vary with production, price and costs.

Net proved developed reserves are those volumes that are expected to be recovered through existing wells, facilities, or mining activities with existing equipment and operating methods or in which the cost of the required equipment is relatively minor compared to the cost of a new well or facility. Net proved undeveloped reserves are those volumes that are expected to be recovered as a result of future investments to drill new wells, to recomplete existing wells and / or to install facilities to collect and deliver the production from existing and future wells, facilities, or mining activities.



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