

During the quarter, Imperial returned \$2,145 million to shareholders, through dividend payments, accelerated completion of the company's annual normal course issuer bid program and successful completion of the company's \$1.5 billion substantial issuer bid program in December. Throughout 2022, the company returned over \$7 billion to its shareholders. "Imperial continued delivering on its long-standing commitment by returning record cash to shareholders in 2022 through our reliable and growing dividend and industry-leading share repurchase programs," said Corson.

In January, Imperial announced it will further help Canada achieve its net zero goals by approving a \$720 million renewable diesel project located at the company's Strathcona Refinery near Edmonton. The project will be the largest of its kind in Canada, designed to produce more than one billion litres of renewable diesel annually primarily from locally sourced feedstocks and could help reduce greenhouse gas emissions by about 3 million metric tons per year, as determined in accordance with Canada's Clean Fuel Regulations. Site preparation and initial construction work is underway with renewable diesel production expected to start in early 2025, subject to regulatory approvals.

As part of the company's efforts to provide solutions that lower the greenhouse gas emissions intensity of our operations and provide lower life-cycle emissions products to our customers, Imperial is implementing 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 Imperial's previously announced net-zero goal for operated oil sands as part of the Pathways Alliance initiative, as well as the company's 2030 emission intensity reduction goal for operated oil sands. 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.

"We continue to make progress on advancing lower-carbon solutions that support our journey to net zero, including our strategic growth investment in the Strathcona Renewable Diesel project," said Corson. "This project will create jobs for the local economy, help our customers reduce their emissions and further enhance Imperial's low-carbon product offering."

After more than a century, Imperial continues to be an industry leader in applying technology and innovation to responsibly develop Canada's energy resources. As Canada's largest petroleum refiner, a major producer of crude oil, a key petrochemical producer and a leading fuels marketer from coast to coast, our company remains committed to high standards across all areas of our business.

Fourth quarter highlights

- **Net income of \$1,727 million or \$2.86 per share on a diluted basis**, up from \$813 million or \$1.18 per share in the fourth quarter of 2021.
- **Cash flows from operating activities of \$2,797 million**, up from \$1,632 million in the same period of 2021. Cash flows from operating activities excluding working capital¹ of \$2,452 million, up from \$1,648 million in the same period of 2021.
- **Capital and exploration expenditures totaled \$488 million**, up from \$441 million in the fourth quarter of 2021.
- **The company returned \$2,145 million to shareholders in the fourth quarter of 2022**, including \$211 million in dividends paid and \$1,934 million in share repurchases, through its normal course issuer bid and completion of the \$1,500 million substantial issuer bid program in December.
- **Production averaged 441,000 gross oil-equivalent barrels per day**, compared to 445,000 gross oil-equivalent barrels per day in the same period of 2021. Adjusting for the sale of XTO Energy Canada, which closed in the third quarter of 2022, production increased by 11,000 gross oil-equivalent barrels per day compared to the same period in 2021.
- **Total gross bitumen production at Kearl averaged 284,000 barrels per day** (201,000 barrels Imperial's share), in-line with the asset's previous record quarterly production set in the fourth quarter of 2020 and up from 270,000 barrels per day (191,000 barrels Imperial's share) in the fourth quarter of 2021.
- **Gross bitumen production at Cold Lake averaged 141,000 barrels per day**, compared to 142,000 barrels per day in the fourth quarter of 2021.
- **The company's share of gross production from Syncrude averaged 87,000 barrels per day**, up from 79,000 barrels per day in the fourth quarter of 2021.
- **Refinery throughput averaged 433,000 barrels per day**, up from 416,000 barrels per day in the fourth quarter of 2021. Capacity utilization reached 101 percent, the highest quarterly utilization in company history, up from 97 percent in the fourth quarter of 2021, as the company continues to maximize production to meet Canadian demand.
- **Petroleum product sales were 487,000 barrels per day**, compared to 496,000 barrels per day in the fourth quarter of 2021.
- **Chemical net income of \$41 million in the quarter**, compared to \$64 million in the fourth quarter of 2021. Lower income was primarily driven by lower polyethylene margins.
- **Approved \$720 million project to construct largest renewable diesel facility in Canada.** The project, located at Imperial's Strathcona Refinery near Edmonton, is designed to produce more than one billion litres of renewable diesel annually, primarily from locally sourced feedstocks and could help reduce greenhouse gas emissions by about 3 million metric tonnes per year, as determined in accordance with Canada's Clean Fuel Regulations. Site preparation and initial construction work is underway with renewable diesel production expected to start in early 2025, subject to regulatory approvals.
- **Announcing company-wide goal to achieve net zero (Scope 1 and 2) by 2050 in operated assets**, through collaboration with government and industry partners. This builds on Imperial's previously announced net zero goal for operated oil sands as part of the Pathways Alliance initiative, as well as the company's 2030 emission intensity reduction goal for its operated oil sands.
- **The Pathways Alliance entered into a Carbon Sequestration Evaluation Agreement with the Government of Alberta**, enabling the Alliance to immediately start a detailed evaluation of its proposed geological storage hub, which would be one of the world's largest carbon capture and storage projects.

¹ non-GAAP financial measure - see attachment VI for definition and reconciliation

Recent business environment

During the COVID-19 pandemic, industry investment to maintain and increase production capacity was restrained to preserve capital, resulting in underinvestment and supply tightness as demand for petroleum and petrochemical products recovered. Across late 2021 and the first half of 2022, this dynamic, 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.

Demand for petroleum and petrochemical products has grown in 2022, with the company's financial results benefiting from stronger prices and margins. Commodity and product prices are expected to remain volatile given the current global economic uncertainty and geopolitical events affecting supply and demand.

The general rate of inflation in Canada and many other countries experienced a brief decline in the initial stage of the COVID-19 pandemic, before starting to increase steadily in 2021 due to imbalanced recoveries between supply and demand in the global economy. The underlying factors include, but are not limited to, supply chain disruptions, shipping bottlenecks, labour constraints, and side effects from monetary and fiscal expansions. Prices for services and materials continue to respond to the fast changing dynamics involving economic growth, overall inflation, commodity markets, and industry activities. The company closely monitors market trends and works to mitigate both operating and capital cost impacts in all price environments through efficient project management practices, and general productivity improvements.

Operating results

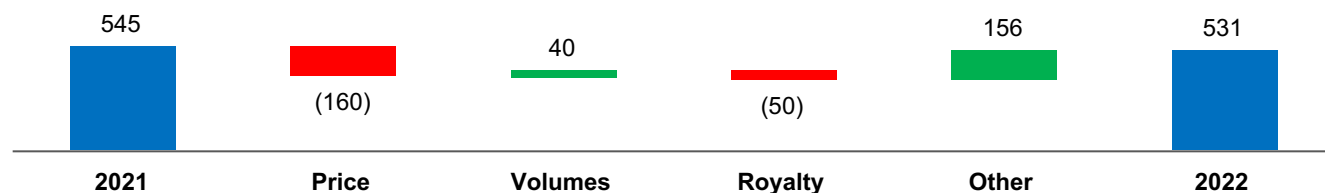
Fourth quarter 2022 vs. fourth quarter 2021

millions of Canadian dollars, unless noted	Fourth Quarter	
	2022	2021
Net income (loss) (U.S. GAAP)	1,727	813
Net income (loss) per common share, assuming dilution (dollars)	2.86	1.18

Upstream

Net income (loss) factor analysis

millions of Canadian dollars



Price – Lower bitumen realizations were primarily driven by the widening WTI/WCS spread. Average bitumen realizations decreased by \$5.68 per barrel generally in line with WCS, and synthetic crude oil realizations increased by \$22.68 per barrel.

Volumes – Higher volumes were the result of improved plant performance at Kearl and lower unplanned downtime at Syncrude, partially offset by the absence of XTO Energy Canada production following the divestment in the third quarter of 2022.

Royalty – Higher royalties primarily driven by improved commodity prices.

Other – Favourable foreign exchange impacts of about \$160 million, partially offset by higher operating expenses of about \$70 million, resulting primarily from higher energy prices.

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Marker prices and average realizations

Canadian dollars, unless noted	Fourth Quarter	
	2022	2021
West Texas Intermediate (US\$ per barrel)	82.58	77.04
Western Canada Select (US\$ per barrel)	57.00	62.49
WTI/WCS Spread (US\$ per barrel)	25.58	14.55
Bitumen (per barrel)	59.85	65.53
Synthetic crude oil (per barrel)	115.22	92.54
Average foreign exchange rate (US\$)	0.74	0.79

Production

thousands of barrels per day	Fourth Quarter	
	2022	2021
Kearl (Imperial's share)	201	191
Cold Lake	141	142
Syncrude (a)	87	79
Kearl total gross production (thousands of barrels per day)	284	270

(a) In the fourth quarter of 2022, Syncrude gross production included about 2 thousand barrels per day of bitumen and other products (2021 - 3 thousand barrels per day) that were exported to the operator's facilities using an existing interconnect pipeline.

Higher production at Kearl was primarily driven by improved plant performance and the absence of extreme cold weather in December 2021.

Downstream

Net income (loss) factor analysis

millions of Canadian dollars



Margins – Higher margins primarily reflect improved market conditions.

Other – Improved volumes of about \$60 million, favourable foreign exchange impacts of about \$60 million, absence of the prior year unfavourable out-of-period inventory adjustment of \$60 million, partially offset by higher operating expenses of about \$50 million.

Refinery utilization and petroleum product sales

thousands of barrels per day, unless noted	Fourth Quarter	
	2022	2021
Refinery throughput	433	416
Refinery capacity utilization (percent)	101	97
Petroleum product sales	487	496

Improved refinery throughput in the fourth quarter of 2022 was primarily driven by economic optimization across the downstream supply chain.

Chemicals

Net income (loss) factor analysis

millions of Canadian dollars



Corporate and other

millions of Canadian dollars	Fourth Quarter	
	2022	2021
Net income (loss) (U.S. GAAP)	(33)	(46)

Liquidity and capital resources

millions of Canadian dollars	Fourth Quarter	
	2022	2021
Cash flow generated from (used in):		
Operating activities	2,797	1,632
Investing activities	(473)	(399)
Financing activities	(2,151)	(955)
Increase (decrease) in cash and cash equivalents	173	278
Cash and cash equivalents at period end	3,749	2,153

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

Cash flow used in investing activities primarily reflects higher additions to property, plant and equipment.

Cash flow used in financing activities primarily reflects:

millions of Canadian dollars, unless noted	Fourth Quarter	
	2022	2021
Dividends paid	211	188
Per share dividend paid (dollars)	0.34	0.27
Share repurchases (a)	1,934	761
Number of shares purchased (millions) (a)	27.3	17.5

(a) Share repurchases were made under the company's normal course issuer bid program, and substantial issuer bid that commenced on November 4, 2022 and expired on December 9, 2022. 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 bid.

The company completed share repurchases under its normal course issuer bid on October 21, 2022.

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.

Full-year 2022 vs. full-year 2021

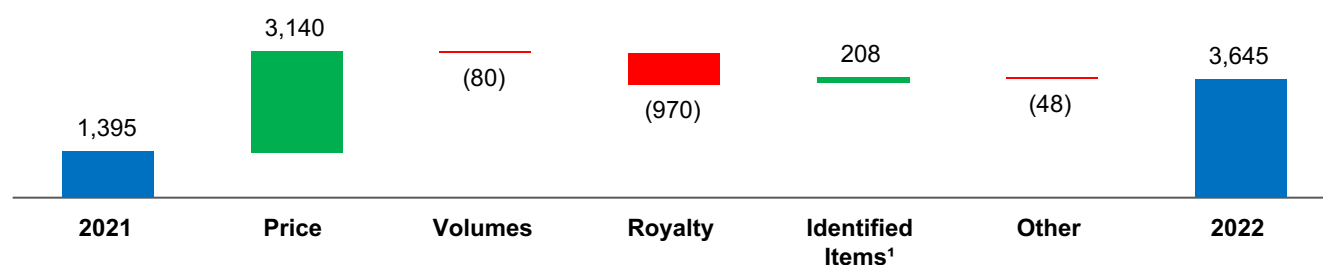
millions of Canadian dollars, unless noted	Twelve Months	
	2022	2021
Net income (loss) (U.S. GAAP)	7,340	2,479
Net income (loss) per common share, assuming dilution (dollars)	11.44	3.48
Net income (loss) excluding identified items ¹	7,132	2,479

Current year results include favourable identified items¹ of \$208 million related to the company's gain on the sale of interests in XTO Energy Canada.

Upstream

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 – Current year 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.

Marker prices and average realizations

Canadian dollars, unless noted	Twelve Months	
	2022	2021
West Texas Intermediate (US\$ per barrel)	94.36	68.05
Western Canada Select (US\$ per barrel)	76.28	54.96
WTI/WCS Spread (US\$ per barrel)	18.08	13.09
Bitumen (per barrel)	84.67	57.91
Synthetic crude oil (per barrel)	125.46	81.61
Average foreign exchange rate (US\$)	0.77	0.80

¹ non-GAAP financial measure - see Attachment VI for definition and reconciliation

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Production

thousands of barrels per day	Twelve Months	
	2022	2021
Kearl (Imperial's share)	172	186
Cold Lake	144	140
Syncrude (a)	77	71
Kearl total gross production (thousands of barrels per day)	242	263

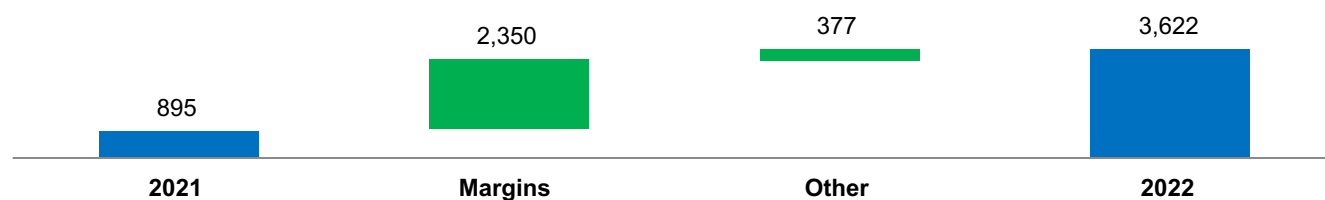
(a) In 2022, Syncrude gross production included about 3 thousand barrels per day of bitumen and other products (2021 - 1 thousand barrels per day) that were exported to the operator's facilities using an existing interconnect pipeline.

Lower production at Kearl was primarily a result of downtime in the first half of the year.

Downstream

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, 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 and petroleum product sales

thousands of barrels per day, unless noted	Twelve Months	
	2022	2021
Refinery throughput	418	379
Refinery capacity utilization (percent)	98	89
Petroleum product sales	475	456

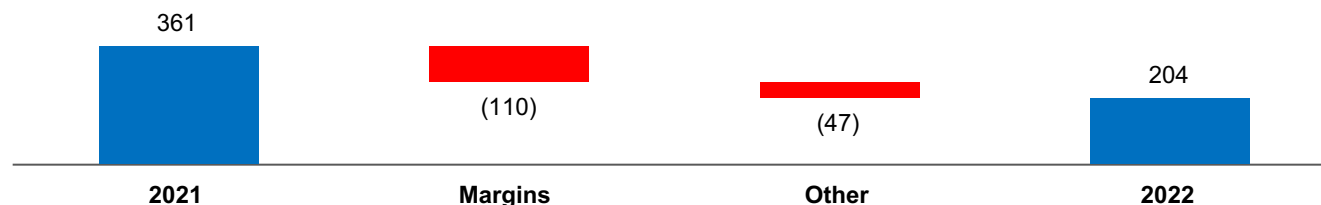
Improved refinery throughput in 2022 was primarily driven by increased demand and reduced turnaround activity.

Improved petroleum product sales in 2022 primarily reflects increased demand.

Chemicals

Net income (loss) factor analysis

millions of Canadian dollars



Margins – Lower margins primarily reflect weaker industry polyethylene margins.

Corporate and other

millions of Canadian dollars	Twelve Months	
	2022	2021
Net income (loss) (U.S. GAAP)	(131)	(172)

Liquidity and capital resources

millions of Canadian dollars	Twelve Months	
	2022	2021
Cash flow generated from (used in):		
Operating activities	10,482	5,476
Investing activities	(618)	(1,012)
Financing activities	(8,268)	(3,082)
Increase (decrease) in cash and cash equivalents	1,596	1,382

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

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 flow used in financing activities primarily reflects:

millions of Canadian dollars, unless noted	Twelve Months	
	2022	2021
Dividends paid	851	706
Per share dividend paid (dollars)	1.29	0.98
Share repurchases (a)	6,395	2,245
Number of shares purchased (millions) (a)	93.9	56.0

(a) Share repurchases were made under the company's normal course issuer bid program, and substantial issuer bids that commenced on May 6, 2022 and November 4, 2022, and expired on June 10, 2022 and December 9, 2022, respectively. 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.

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 to continue its then existing share repurchase program. 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.

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.

Key financial and operating data follow.

millions of Canadian dollars	Fourth Quarter		Twelve Months	
	2022	2021	2022	2021
Net income (loss) (U.S. GAAP)				
Upstream	531	545	3,645	1,395
Downstream	1,188	250	3,622	895
Chemical	41	64	204	361
Corporate and other	(33)	(46)	(131)	(172)
Net income (loss)	1,727	813	7,340	2,479
Revenues and other income				
Upstream	4,332	4,252	19,764	15,831
Downstream	15,919	14,453	64,985	34,786
Chemical	422	449	1,976	1,758
Eliminations / Corporate and other	(6,220)	(6,842)	(27,055)	(14,785)
Revenues and other income	14,453	12,312	59,670	37,590
Purchases of crude oil and products				
Upstream	1,787	1,712	7,971	7,492
Downstream	13,110	12,980	55,569	29,505
Chemical	260	273	1,330	966
Eliminations	(6,264)	(6,843)	(27,128)	(14,789)
Purchases of crude oil and products	8,893	8,122	37,742	23,174
Production and manufacturing				
Upstream	1,438	1,266	5,491	4,661
Downstream	447	406	1,640	1,445
Chemical	80	65	273	210
Eliminations	—	—	—	—
Production and manufacturing	1,965	1,737	7,404	6,316
Selling and general				
Upstream	—	—	—	—
Downstream	179	156	653	572
Chemical	23	22	85	90
Eliminations / Corporate and other	55	37	144	122
Selling and general	257	215	882	784
Capital and exploration expenditures				
Upstream	364	266	1,128	632
Downstream	94	168	295	476
Chemical	5	2	10	8
Corporate and other	25	5	57	24
Capital and exploration expenditures	488	441	1,490	1,140
Exploration expenses charged to Upstream income included above	1	26	5	32

Operating statistics	Fourth Quarter		Twelve Months	
	2022	2021	2022	2021
Gross crude oil and natural gas liquids (NGL) production				
(thousands of barrels per day)				
Kearl	201	191	172	186
Cold Lake	141	142	144	140
Syncrude (a)	87	79	77	71
Conventional	6	11	8	10
Total crude oil production	435	423	401	407
NGLs available for sale	—	2	1	1
Total crude oil and NGL production	435	425	402	408
Gross natural gas production (millions of cubic feet per day)				
	37	121	85	120
Gross oil-equivalent production (b)				
(thousands of oil-equivalent barrels per day)				
	441	445	416	428
Net crude oil and NGL production (thousands of barrels per day)				
Kearl	184	179	157	178
Cold Lake	105	119	106	114
Syncrude (a)	77	68	63	62
Conventional	6	11	8	9
Total crude oil production	372	377	334	363
NGLs available for sale	—	1	1	1
Total crude oil and NGL production	372	378	335	364
Net natural gas production (millions of cubic feet per day)				
	37	112	83	115
Net oil-equivalent production (b)				
(thousands of oil-equivalent barrels per day)				
	378	397	349	383
Kearl blend sales (thousands of barrels per day)				
	277	272	236	264
Cold Lake blend sales (thousands of barrels per day)				
	186	189	188	187
NGL sales (thousands of barrels per day) (c)				
	—	—	1	—
Average realizations (Canadian dollars)				
Bitumen (per barrel)	59.85	65.53	84.67	57.91
Synthetic crude oil (per barrel)	115.22	92.54	125.46	81.61
Conventional crude oil (per barrel)	67.91	70.09	97.45	59.84
NGL (per barrel)	—	62.07	64.92	35.87
Natural gas (per thousand cubic feet)	5.54	4.92	5.69	3.83
Refinery throughput (thousands of barrels per day)				
	433	416	418	379
Refinery capacity utilization (percent)				
	101	97	98	89
Petroleum product sales (thousands of barrels per day)				
Gasolines	242	240	229	224
Heating, diesel and jet fuels	180	180	176	160
Lube oils and other products	41	44	47	45
Heavy fuel oils	24	32	23	27
Net petroleum products sales	487	496	475	456
Petrochemical sales (thousands of tonnes)				
	193	194	842	831

(a) Syncrude gross and net production included bitumen and other products that were exported to the operator's facilities using an existing interconnect pipeline.

Gross bitumen and other products production (thousands of barrels per day)	2	3	3	1
Net bitumen and other products production (thousands of barrels per day)	2	2	3	1

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

(c) NGL sales round to 0 in 2021.

	Net income (loss) (U.S. GAAP) millions of Canadian dollars	Net income (loss) per common share - diluted (a) Canadian dollars
2018		
First Quarter	516	0.62
Second Quarter	196	0.24
Third Quarter	749	0.94
Fourth Quarter	853	1.08
Year	2,314	2.86
2019		
First Quarter	293	0.38
Second Quarter	1,212	1.57
Third Quarter	424	0.56
Fourth Quarter	271	0.36
Year	2,200	2.88
2020		
First Quarter	(188)	(0.25)
Second Quarter	(526)	(0.72)
Third Quarter	3	—
Fourth Quarter	(1,146)	(1.56)
Year	(1,857)	(2.53)
2021		
First Quarter	392	0.53
Second Quarter	366	0.50
Third Quarter	908	1.29
Fourth Quarter	813	1.18
Year	2,479	3.48
2022		
First Quarter	1,173	1.75
Second Quarter	2,409	3.63
Third Quarter	2,031	3.24
Fourth Quarter	1,727	2.86
Year	7,340	11.44

(a) Computed using the average number of shares outstanding during each period. The sum of the quarters presented may not add to the year total.

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Unit cash operating cost (unit cash costs)

Unit cash operating costs is a non-GAAP ratio. Unit cash operating costs (unit cash costs) is calculated by dividing cash operating costs by total gross oil-equivalent production, and is calculated for the Upstream segment, as well as the major Upstream assets. Cash operating costs is a non-GAAP financial measure and is disclosed and reconciled above. This measure is useful for investors to understand the expense management efforts of the company's major assets as a component of the overall Upstream segment. Unit cash operating cost, as used by management, does not directly align with the definition of "Average unit production costs" as set out by the U.S. Securities and Exchange Commission (SEC), and disclosed in the company's SEC Form 10-K.

Components of unit cash operating cost

millions of Canadian dollars	Fourth Quarter							
	2022				2021			
	Upstream (a)	Kearl	Cold Lake	Syncrude	Upstream (a)	Kearl	Cold Lake	Syncrude
Production and manufacturing	1,438	673	327	393	1,266	561	315	333
Selling and general	—	—	—	—	—	—	—	—
Exploration	1	—	—	—	26	—	—	—
Cash operating costs	1,439	673	327	393	1,292	561	315	333
Gross oil-equivalent production (thousands of barrels per day)	441	201	141	87	445	191	142	79
Unit cash operating cost (\$/oeb)	35.47	36.39	25.21	49.10	31.56	31.93	24.11	45.82
USD converted at the quarterly average forex <i>2022 US\$0.74; 2021 US\$0.79</i>	26.25	26.93	18.66	36.33	24.93	25.22	19.05	36.20

millions of Canadian dollars	Twelve Months							
	2022				2021			
	Upstream (a)	Kearl	Cold Lake	Syncrude	Upstream (a)	Kearl	Cold Lake	Syncrude
Production and manufacturing	5,491	2,353	1,344	1,563	4,661	1,902	1,117	1,388
Selling and general	—	—	—	—	—	—	—	—
Exploration	5	—	—	—	32	—	—	—
Cash operating costs	5,496	2,353	1,344	1,563	4,693	1,902	1,117	1,388
Gross oil-equivalent production (thousands of barrels per day)	416	172	144	77	428	186	140	71
Unit cash operating cost (\$/oeb)	36.20	37.48	25.57	55.61	30.04	28.02	21.86	53.56
USD converted at the YTD average forex <i>2022 US\$0.77; 2021 US\$0.80</i>	27.87	28.86	19.69	42.82	24.03	22.42	17.49	42.85

(a) Upstream includes Imperial's share of Kearl, Cold Lake, Syncrude and other.