MATERIAL TOPIC: ENERGY & EMISSIONS	Units	2020	2021	2022	2023	2024	CONTEXT	SASB
Methodology Note: all energy and emissions data, unless specifically noted otherwise, are based on operational control at the battery level								
Annual Production - Annual Report figure, financial control	boe	34,839,540	31,173,190	31,093,255	30,657,810	30,858,195		
Annual Production - Operated facility throughput including third-party volumes	boe	42,202,207	36,865,352	35,634,107	32,961,096	32,072,704	**Use for energy and emissions intensity calculations to ensure numerator/denominator alignment**	
ENERGY - updated with aggregated energy consumption Nov 2025		**2020**	**2021**	**2022**	**2023**	**2024**		
Scope 1+2 Energy consumption within the organization, non-renewable + renewable	**GJ**					**6,700,350**	**aggregated energy in 2024: 10% renewable (solar + purchased); 90% non-renewable**	
Scope 1: Energy consumption within organization, non-renewable (natural gas, propane liquid, diesel fuel and vehicle fuel)	**GJ**	**5,172,331**	**4,806,111**	**4,388,587**	**4,360,659**	**4,969,107**		
Canada	GJ	3,223,562	2,907,176	2,496,328	3,017,477	3,221,261		
France	GJ	3143	6,280	12,839	11,430	11,080		
Netherlands	GJ	73,037	74,841	70,352	64,140	61,790		
Australia	GJ	843,308	813,213	815,819	326,193	697,393	2023: production decrease due to maintenance shutdown	
United States	GJ	111,857	78,669	63,807	38,213	31,332		
Germany	GJ	108,675	112,212	101,099	126,554	109,703		
Central and Eastern Europe - Hungary and Croatia	GJ	5,119	16,544	0	0	6,377		
Ireland	GJ	803,630	797,175	828,343	776,651	830,170		
Energy intensity ratio Scope 1	**GJ/boe**	**0.12**	**0.13**	**0.12**	**0.13**	**0.15**		
Scope 2: Energy consumption outside organization, non-renewable: electricity	**GJ**	**1,697,707**	**1,049,524**	**1,629,883**	**1,246,104**	**1,079,852**	**1 MWh = 3.6 GJ**	
Canada	GJ	1,117,288	973,345	1,125,289	682,376	426,514	2023-2024 decrease: Saskatchewan Queensdale divestment	
France	GJ	525,612	536,370	426,879	510,171	601,073	Non-renewable sources include nuclear; plus an additional 91,966 from hydro and other renewable sources in 2024	
Netherlands	GJ	0	0	0	0	0	Purchased from renewable sources 2017-2024; electricity purchased 2024 = 77,862 MWh	
Australia	GJ	383	463	476	518	513		
United States	GJ	45,119	45,273	52,198	51,803	50,833		
Germany	GJ	6,853	13,470	24,814	0	0	Purchased from renewable sources in 2023-2024; electricity purchased 2024 = 9,847 MWh	
Central and Eastern Europe - Hungary and Croatia	GJ	229	210	227	1,235	920		
Ireland	GJ	2,224	0	0	0	0	Purchased from renewable sources 2021-2024; electricity consumed 2024 = 1,207 MWh	
Energy intensity ratio Scope 2	**GJ/boe**	**0.04**	**0.03**	**0.05**	**0.04**	**0.03**		
Scope 1 + Scope 2	**GJ**	**6,870,038**	**5,855,635**	**6,018,470**	**5,606,764**	**6,048,959**		
Energy intensity ratio Scope 1+2	**GJ/boe**	**0.16**	**0.16**	**0.17**	**0.17**	**0.19**	**2014+: operated battery energy use/operated battery production**	
Renewable energy generated		**2020**	**2021**	**2022**	**2023**	**2024**		
Total amount invested in renewable energy	**$M CAD**	**$568**	**$2,890**	**$1,502**	**$792**	**$1,546**		
Canada	$M CAD	$230	$2,461	$696	$393	$65	Solar pump retrofits	
France	$M CAD	$270	$388	$531	$371	$1,450	Geothermal from 3 produced water projects; alternative energy research	
Netherlands	$M CAD	$68	$27	$215	$29	$31	Harlingen biogas project	
Renewable energy investment: % of capital expenditure	**%**	**0.2**	**0.8**	**0.3**	**0.1**	**0.2**		
Renewable energy GHG emissions avoided	**tCO2e**	**18,993**	**18,635**	**19,349**	**16,925**	**17,387**		
Renewable energy generated by source (actual energy content transferred)	**GJ**	**213,588**	**208,814**	**213,109**	**153,506**	**159,491**		
Canada	GJ	40	68	191	125	165	Solar consumed within operations = 165.6 GJ in 2024	
France	GJ	213,548	208,746	212,918	153,381	159,275	Geothermal from produced water transferred to external partners: Tom d'Aqui greenhouses/ Eco-neighborhood Arcachon / Condorcet	
Netherlands	GJ	0	0	0	0	50	Consumed within operations = 50.4 GJ in 2024	
Aggregated renewable energy purchased: electricity - Netherlands, Germany, Ireland, France	**GJ**					**651,175**	**Energy purchased in 2024: approximately 40% renewable, 60% non-renewable**	
EMISSIONS		**2020**	**2021**	**2022**	**2023**	**2024**		

Updated with aggregated energy consumption Nov 10 2025

MATERIAL TOPIC: ENERGY & EMISSIONS	Units	2020	2021	2022	2023	2024	CONTEXT	SASB
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Annual Production - Annual Report figure, financial control	boe	34,839,540	31,173,190	31,093,255	30,657,810	30,858,195		
Annual Production - Operated facility throughput including third-party volumes	boe	42,202,207	36,865,352	35,634,107	32,961,096	32,072,704	**Use for energy and emissions intensity calculations to ensure numerator/denominator alignment**	
Percentage of total emissions under emissions-limiting regulations	**%**	**89%**	**87%**	**100%**	**100%**	**100%**	**All BUs operate in regions under some form of emissions limiting regulations: e.g. EU ETS, carbon taxes, carbon pricing, methane regulations, etc.**	**EM-EP-110a.1.4**
Scope 1 gross direct GHG emissions	**Tonne**	**793,203**	**648,337**	**616,184**	**559,325**	**519,051**		**EM-EP-110a.2**
CO_2 Scope 1 emissions (excluding CH4 and N2O)	**Tonne**	**531,078**	**466,472**	**416,262**	**379,254**	**384,118**	**Hydrofluorocarbons, Perfluorocarbons, Sulfur hexafluride, VOCs, particulates not tracked**	
Canada	Tonne	354,167	283,298	241,688	226,390	224,116		
France	Tonne	56,764	65,665	62,414	63,428	55,841		
Netherlands	Tonne	8,393	6,803	5,035	4,524	4,449		
Australia	Tonne	50,209	50,627	46,476	21,618	40,671	2023: production decrease due to maintenance shutdown	
United States	Tonne	13,253	11,949	12,909	16,610	10,163		
Germany	Tonne	7,262	6,408	6,111	7,916	6,701		
Central and Eastern Europe - Hungary and Croatia	Tonne	357	1,146	0	0	255		
Ireland	Tonne	40,673	40,576	41,628	38,768	41,923		
Methane	**tCO2e**	**261,051**	**180,987**	**199,123**	**179,328**	**134,284**		
Canada	tCO2e	216,739	144,005	168,345	159,796	113,044	2024 decrease: Saskatchewan Queensdale divestment; venting projects; LDAR program	
France	tCO2e	8,752	8,009	6,932	6,919	6,270		
Netherlands	tCO2e	5,215	3,265	2,983	2,305	1,991		
Australia	tCO2e	21,373	18,655	11,112	2,104	5,578	2023: production decrease due to maintenance shutdown	
United States	tCO2e	4,436	4,739	4,684	5,097	4,212		
Germany	tCO2e	3,284	1,763	4,438	2,514	2,539		
Central and Eastern Europe - Hungary and Croatia	tCO2e	656	1	0	0	0	D&C moved to Scope 3 in 2022+ based on GHG Protocol definition of external contractors	
Ireland	tCO2e	597	550	628	593	650		
Methane as a % of total Scope 1 direct GHG emissions	**%**	**33**	**28**	**32**	**32**	**26**		**EM-EP-110a.1.3**
Nitrous Oxide (N_2O)	**tCO2e**	**1,073**	**878**	**799**	**743**	**648**		
Canada	tCO2e	505	290	310	262	211		
France	tCO2e	428	462	361	387	328		
Netherlands	tCO2e	28	12	10	6	6		
Australia	tCO2e	90	104	96	54	80		
United States	tCO2e	18	3	19	29	18		
Germany	tCO2e	4	4	4	5	5		
Central and Eastern Europe - Hungary and Croatia	tCO2e	0	3	0	0	0	D&C moved to Scope 3 in 2022+ based on GHG Protocol definition of external contractors	
Ireland	tCO2e	0	0	0	0	0		
Scope 1 GHG emissions intensity, oil and gas production	**tCO2e/boe**	**0.019**	**0.018**	**0.0173**	**0.0170**	**0.0162**	**operated battery Scope 1 emissions/operated battery production**	
Total Scope 2 GHG emissions	**tCO2e**	**247,144**	**214,778**	**218,839**	**148,484**	**86,825**		
Canada	tCO2e	222,010	194,319	192,833	131,804	67,702	2023-2024 decrease due to Queensdale divestment in Saskatchewan	
France	tCO2e	8,628	8,314	6,617	5,982	7,134	Change due to updated grid intensity	
Netherlands	tCO2e	0	0	0	0	0	Electricity sourced from 100% renewables	
Australia	tCO2e	73	88	90	73	73	7,134	
United States	tCO2e	14,425	13,856	15,088	14,808	11,879		
Germany	tCO2e	1,735	3,845	4,200	0	0	Electricity sourced from 100% renewables	
Central and Eastern Europe - Hungary and Croatia	tCO2e	11	10	11	49	37		
Ireland	tCO2e	262	0	0	0	0	Electricity sourced from 100% renewables	
Scope 2 GHG emissions intensity	**tCO2e/boe**	**0.006**	**0.006**	**0.006**	**0.005**	**0.003**	**operated battery Scope 2 emissions/operated battery production**	
Scope 1 + 2 emissions	**tCO2e**	**1,040,347**	**863,114**	**835,023**	**707,809**	**605,876**		
Scope 1+2 GHG emissions intensity	**tCO2e/boe**	**0.025**	**0.023**	**0.023**	**0.021**	**0.01889**	**operated battery Scope 1+2 emissions/operated battery production**	
Scope 3 Gross other indirect GHG emissions	**tCO2e**	**13,226,527**	**11,631,963**	**11,682,455**	**11,350,400**	**11,045,000**		

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MATERIAL TOPIC: ENERGY & EMISSIONS	Units	2020	2021	2022	2023	2024	CONTEXT	SASB
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Annual Production - Annual Report figure, financial control	boe	34,839,540	31,173,190	31,093,255	30,657,810	30,858,195		
Annual Production - Operated facility throughput including third-party volumes	boe	42,202,207	36,865,352	35,634,107	32,961,096	32,072,704	**Use for energy and emissions intensity calculations to ensure numerator/denominator alignment**	
Biogenic CO_2 Scope 3 emissions	tCO2e	0	0	0	0	NR	Scope 3 categories were previously publicly reported via CDP Climate annual submissions; they were added to this report in 2022; for 2024 reporting onwards, using the CSDS approach for Scope 3 materiality, these categories were eliminated from reporting as none exceed 2% of total Scope 3 emissions	
Purchased goods and services	tCO2e			79,047	45,881	NR		
Capital goods	tCO2e			45,917	44,540	NR		
Fuel and energy-related activities not included in Scope 1 or 2	tCO2e			197,814	198,263	NR		
Upstream transportation and distribution	tCO2e			109,222	116,689	NR		
Waste generated in operations	tCO2e			6,649	3,330	NR		
Business travel	tCO2e			3,401	2,819	NR		
Employee commuting	tCO2e			1,020	1,020	NR		
Downstream transportation and distribution	tCO2e			55,671	21,204	NR		
Processing of sold products	tCO2e			600,529	527,108	545,000		
Use of sold products	tCO2e	12,176,323	10,624,199	10,584,186	10,389,547	10,500,000		
Emissions of ozone-depleting substances	**Tonne**	**0**	**0**	**0**	**0**	**0**		
NOx	**Tonne**	**1,190**	**977**	**1,579**	**1,417**	**1,787**		**EM-EP-120a.1**
Canada	Tonne	1,011	818	1,193	1,142	1,460	From NPRI reporting	
France	Tonne	45	50	46	47	40		
Netherlands	Tonne	4	2	2	2	8		
Australia	Tonne	131	104	336	222	253		
United States	Tonne	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Germany	Tonne	Not Tracked	2.0	2.0	3.4	2.9		
Central and Eastern Europe - Hungary and Croatia	Tonne	Not Tracked	Not Tracked	0	0	Not Tracked		
Ireland	Tonne	Not Tracked	Not Tracked	Not Tracked	Not Tracked	23		
SO2	**Tonne**	**2,681**	**2,219**	**1,871**	**1,486**	**1,154**		**EM-EP-120a.1**
Canada	Tonne	1,935	1,360	1,059	613	273		
France	Tonne	737	851	803	864	873		
Netherlands	Tonne	0	0	0	0	0		
Australia	Tonne	0.7	0.9	1.0	0.7	0.8		
United States	Tonne	8	7	8	8	7		
Germany	Tonne	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Central and Eastern Europe - Hungary and Croatia	Tonne	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Ireland	Tonne	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Volatile Organic Compounds (VOCs) (non-methane)	**Tonne**	**145**	**621**	**938**	**2,417**	**1,900**	**Volatile organic compounds that participate in atmospheric photochemical reactions; excludes carbon monoxide, carbon dioxide and methane**	**EM-EP-120a.1**
Canada	Tonne	Not Tracked	138	455	1,945	1,528	From NPRI reporting	
France	Tonne	128	181	225	165	153		
Netherlands	Tonne	13	19	11	11	11		
Australia	Tonne	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
United States	Tonne	Not Tracked	278	245	293	205		
Germany	Tonne	4.0	5.0	3.1	2.6	2.6		
Central and Eastern Europe - Hungary and Croatia	Tonne	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Ireland	Tonne	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Ireland is below the regulatory reporting threshold for NMVOC	
Particulate Matter (PM10)	**Tonne**						**Airborne finely divided solid or liquid material with an aerodynamic diameter ≤ 10 micrometers**	**EM-EP-120a.1**
Canada	Tonne	219	9	106	68	40	From NPRI reporting	
France	Tonne	3	2	2	2	2		
Netherlands	Tonne	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		

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Australia	Tonne	8	12	13	9	10		
United States	Tonne	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Germany	Tonne	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Central and Eastern Europe - Hungary and Croatia	Tonne	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Ireland	Tonne	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
FLARING AND VENTING		**2020**	**2021**	**2022**	**2023**	**2024**		**EM-EP-110a.2**
Volume of flared hydrocarbon	**e^3m^3/yr**	**83,116**	**66,563**	**58,260**	**53,375**	**44,697**	**Note that all flared volumes are reported, not just continous flares**	
Canada	e^3m^3/yr	62,108	42,144	36,437	27,655	21,520		
France	e^3m^3/yr	17,797	20,456	17,377	20,434	18,388		
Netherlands	e^3m^3/yr	236	287	250	168	173		
Australia	e^3m^3/yr	1,413	1,688	1,722	629	1,787		
United States	e^3m^3/yr	1,379	1,713	2,172	4,067	2,558		
Germany	e^3m^3/yr	31	58	218	313	128		
Central and Eastern Europe - Hungary and Croatia	e^3m^3/yr	0	0	0	0	0		
Ireland	e^3m^3/yr	152	206	84	109	144		
Volume of continuously vented hydrocarbon	**e^3m^3/yr**	**9,758**	**10,441**	**10,064**	**8,096**	**7,607**		
Canada	e^3m^3/yr	6,968	8,442	8,622	7,276	6,763		
France	e^3m^3/yr	765	696	634	595	523		
Netherlands	e^3m^3/yr	189	66	58	57	55		
Australia	e^3m^3/yr	1,446	1,158	597	80	131		
United States	e^3m^3/yr	45	24	74	45	88		
Germany	e^3m^3/yr	275	21	47	13	15		
Central and Eastern Europe - Hungary and Croatia	e^3m^3/yr	37	-	-	-	0		
Ireland	e^3m^3/yr	33	33	33	31	33		
Flaring/Venting Intensity based on production	**e^3m^3/boe**	**0.0022**	**0.0021**	**0.0019**	**0.0019**	**0.0016**	**operated battery flaring and venting emissions/operated battery production**	
Hydraulic Fracturing							**Hydraulic fracturing used in Canadian and US operated production**	
Percentage of global production from hydraulic fracturing	%	37	49	51	57	54	2024: based on estimated 83% Canada, 100% US and 0% in Europe and Australia	
Percentage of public disclosure of hydraulic fracturing fluids							**All fracturing fluids are disclosed through FracFocus in Canada and US**	
Canada	%	100	100	100	100	100		EN-EP-140a.3
United States	%	100	100	100	100	100	No proprietary blends used	
Enhanced Oil Recovery from Carbon Capture and Storage							**Based on non-operated production**	
Volume of oil and NGLs produced from CCS ops: equity basis	bbls/d	2,098	1,753	1,784	1,805	1,790	Weyburn Carbon Capture and Storage project: non-operated	
CCS ops percentage of total (global) oil and NGLs produced: equity basis	%	4	4	4	5	5	Global Oil & NGLs 2024 Equity/Financial Control: 38,527 bbl/d Global Oil & NGLs 2023 Equity/Financial Control: 39,023 bbl/d Global Oil & NGLs 2022 Equity/Financial Control: 45,491 bbl/d Global Oil & NGLs 2021 Equity/Financial Control: 46,468 bbl/d Global Oil & NGLs 2020 Equity/Financial Control: 52.538 bbl/d	

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