

MATERIAL TOPIC: ENERGY & EMISSIONS	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	2020	2021	2022	2023	2024		
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	3,223,562	2,907,176	2,496,328	3,017,477	3,221,261		
France	3143	6,280	12,839	11,430	11,080		
Netherlands	73,037	74,841	70,352	64,140	61,790		
Australia	843,308	813,213	815,819	326,193	697,393	2023: production decrease due to maintenance shutdown	
United States	111,857	78,669	63,807	38,213	31,332		
Germany	108,675	112,212	101,099	126,554	109,703		
Central and Eastern Europe - Hungary and Croatia	5,119	16,544	0	0	6,377		
Ireland	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	1,117,288	973,345	1,125,289	682,376	426,514	2023-2024 decrease: Saskatchewan Queensdale divestment	
France	525,612	536,370	426,879	510,171	601,073		
Netherlands	0	0	0	0	0	Purchased from renewable sources 2017-2024; electricity purchased 2024 = 77,862 MWh	
Australia	383	463	476	518	513		
United States	45,119	45,273	52,198	51,803	50,833		
Germany	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	229	210	227	1,235	920		
Ireland	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	2020	2021	2022	2023	2024		
Total amount invested in renewable energy, \$M CAD	\$568	\$2,890	\$1,502	\$792	\$1,546		
Canada	\$230	\$2,461	\$696	\$393	\$65	Solar pump retrofits	
France	\$270	\$388	\$531	\$371	\$1,450	Geothermal from 3 produced water projects; alternative energy research	
Netherlands	\$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): MWh	59,330	58,004	59,197	42,641	44,303		
Canada	11	19	53	35	46	Solar	
France	59,319	57,985	59,144	42,606	44,243	Geothermal from produced water: Tom d'Aqui greenhouses/ Eco-neighborhood Arcachon / Condorcet	
Netherlands	0	0	0	0	14		
EMISSIONS	2020	2021	2022	2023	2024		
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

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CO <sub>2</sub> Scope 1 emissions (excluding CH <sub>4</sub> and N <sub>2</sub> O): tonne	531,078	466,472	416,262	379,254	384,118	Hydrofluorocarbons, Perfluorocarbons, Sulfur hexafluoride, VOCs, particulates not tracked	
Canada	354,167	283,298	241,688	226,390	224,116		
France	56,764	65,665	62,414	63,428	55,841		
Netherlands	8,393	6,803	5,035	4,524	4,449		
Australia	50,209	50,627	46,476	21,618	40,671	2023: production decrease due to maintenance shutdown	
United States	13,253	11,949	12,909	16,610	10,163		
Germany	7,262	6,408	6,111	7,916	6,701		
Central and Eastern Europe - Hungary and Croatia	357	1,146	0	0	255		
Ireland	40,673	40,576	41,628	38,768	41,923		
Methane: tCO <sub>2</sub> e	261,051	180,987	199,123	179,328	134,284		
Canada	216,739	144,005	168,345	159,796	113,044	2024 decrease: Saskatchewan Queensdale divestment; venting projects; LDAR program	
France	8,752	8,009	6,932	6,919	6,270		
Netherlands	5,215	3,265	2,983	2,305	1,991		
Australia	21,373	18,655	11,112	2,104	5,578	2023: production decrease due to maintenance shutdown	
United States	4,436	4,739	4,684	5,097	4,212		
Germany	3,284	1,763	4,438	2,514	2,539		
Central and Eastern Europe - Hungary and Croatia	656	1	0	0	0	D&C moved to Scope 3 in 2022+ based on GHG Protocol definition of external contractors	
Ireland	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 <sub>2</sub> O): tCO <sub>2</sub> e	1,073	878	799	743	648		
Canada	505	290	310	262	211		
France	428	462	361	387	328		
Netherlands	28	12	10	6	6		
Australia	90	104	96	54	80		
United States	18	3	19	29	18		
Germany	4	4	4	5	5		
Central and Eastern Europe - Hungary and Croatia	0	3	0	0	0	D&C moved to Scope 3 in 2022+ based on GHG Protocol definition of external contractors	
Ireland	0	0	0	0	0		
Scope 1 GHG emissions intensity, oil and gas production: tCO <sub>2</sub> e/boe	0.019	0.018	0.017	0.017	0.016	operated battery Scope 1 emissions/operated battery production	
Total Scope 2 GHG emissions: tCO <sub>2</sub> e	247,144	214,778	218,839	148,484	86,825		
Canada	222,010	194,319	192,833	131,804	67,702	2023-2024 decrease due to Queensdale divestment in Saskatchewan	
France	8,628	8,314	6,617	5,982	7,134	Change due to updated grid intensity	
Netherlands	0	0	0	0	0	Electricity sourced from 100% renewables	
Australia	73	88	90	73	73		
United States	14,425	13,856	15,088	14,808	11,879		
Germany	1,735	3,845	4,200	0	0	Electricity sourced from 100% renewables	
Central and Eastern Europe - Hungary and Croatia	11	10	11	49	37		
Ireland	262	0	0	0	0	Electricity sourced from 100% renewables	
Scope 2 GHG emissions intensity: tCO <sub>2</sub> e per boe	0.006	0.006	0.006	0.005	0.003	operated battery Scope 2 emissions/operated battery production	
Scope 1 + 2 emissions: tCO <sub>2</sub> e	1,040,347	863,114	835,023	707,809	605,876		
Scope 1+2 GHG emissions intensity: tCO <sub>2</sub> e per 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: tCO <sub>2</sub> e	13,226,527	11,631,963	11,682,455	11,350,400	11,045,000		

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Biogenic CO <sub>2</sub> Scope 3 emissions	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			79,047	45,881	NR		
Capital goods			45,917	44,540	NR		
Fuel and energy-related activities not included in Scope 1 or 2			197,814	198,263	NR		
Upstream transportation and distribution			109,222	116,689	NR		
Waste generated in operations			6,649	3,330	NR		
Business travel			3,401	2,819	NR		
Employee commuting			1,020	1,020	NR		
Downstream transportation and distribution			55,671	21,204	NR		
Processing of sold products			600,529	527,108	545,000		
Use of sold products	12,176,323	10,624,199	10,584,186	10,389,547	10,500,000		
Emissions of ozone-depleting substances	0	0	0	0	0		
NOx: tonne	1,190	977	1,579	1,417	1,787		EM-EP-120a.1
Canada	1,011	818	1,193	1,142	1,460	From NPRI reporting	
France	45	50	46	47	40		
Netherlands	4	2	2	2	8		
Australia	131	104	336	222	253		
United States	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Germany	Not Tracked	2.0	2.0	3.4	2.9		
Central and Eastern Europe - Hungary and Croatia	Not Tracked	Not Tracked	0	0	Not Tracked		
Ireland	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	1,935	1,360	1,059	613	273		
France	737	851	803	864	873		
Netherlands	0	0	0	0	0		
Australia	0.7	0.9	1.0	0.7	0.8		
United States	8	7	8	8	7		
Germany	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Central and Eastern Europe - Hungary and Croatia	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Ireland	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	Not Tracked	138	455	1,945	1,528	From NPRI reporting	
France	128	181	225	165	153		
Netherlands	13	19	11	11	11		
Australia	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
United States	Not Tracked	278	245	293	205		
Germany	4.0	5.0	3.1	2.6	2.6		
Central and Eastern Europe - Hungary and Croatia	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Ireland	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

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Canada	219	9	106	68	40	From NPRI reporting	
France	3	2	2	2	2		
Netherlands	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Australia	8	12	13	9	10		
United States	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Germany	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Central and Eastern Europe - Hungary and Croatia	Not Tracked	Not Tracked	Not Tracked	Not Tracked	Not Tracked		
Ireland	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: e3m3	83,116	66,563	58,260	53,375	44,697	Note that all flared volumes are reported, not just continous flares	
Canada	62,108	42,144	36,437	27,655	21,520		
France	17,797	20,456	17,377	20,434	18,388		
Netherlands	236	287	250	168	173		
Australia	1,413	1,688	1,722	629	1,787		
United States	1,379	1,713	2,172	4,067	2,558		
Germany	31	58	218	313	128		
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0		
Ireland	152	206	84	109	144		
Volume of continuously vented hydrocarbon: e3m3	9,758	10,441	10,064	8,096	7,607		
Canada	6,968	8,442	8,622	7,276	6,763		
France	765	696	634	595	523		
Netherlands	189	66	58	57	55		
Australia	1,446	1,158	597	80	131		
United States	45	24	74	45	88		
Germany	275	21	47	13	15		
Central and Eastern Europe - Hungary and Croatia	37	-	-	-	0		
Ireland	33	33	33	31	33		
Flaring/Venting Intensity based on production: e3m3/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: bbls/d, equity basis	2,098	1,753	1,784	1,805	1,790	Weyburn Carbon Capture and Storage project: non-operated	

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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	