

MATERIAL TOPIC: WATER, INCLUDING PRODUCED WATER	2019	2020	2021	2022	2023	CONTEXT	GRI/SASB				
Annual Production - Annual Report figure, financial control: boe	36,630,232	34,839,540	31,173,190	31,093,255	30,657,810						
Annual Production - Annual Report minus non-operated volumes (CDP): boe	36,604,811	34,723,518	31,154,575	31,058,580	30,634,815						
Annual Production - Operated facility throughput including third-party volumes: boe	44,708,966	42,202,207	36,865,352	35,634,107	32,961,096	Use for water intensity calculations to ensure numerator/denominator alignment					
WATER WITHDRAWALS	2019	2020	2021	2022	2023						
Total water withdrawal including produced water: ML	70,158	67,202	65,605	62,658	42,922	For 2019+, reporting aligned with CDP's definitions & informed by GRI 303 (2018) and SASB EM-EP-140a.1 and 2; included conversion from m3 to ML (ML = m3/1000)	EM-EP-140a.1 303-3				
Canada	39,234	34,852	31,638	30,580	17,033	2023 decrease due to divestment in Saskatchewan					
France	14,863	13,903	13,709	12,982	12,957						
Netherlands	25	25	15	19	39						
Australia	15,270	17,386	18,912	17,500	11,123						
United States	326	384	302	393	654	2023 increase due to drilling and completions program					
Germany	397	628	1,005	1,109	1,060						
Central and Eastern Europe - Hungary and Croatia	3.9	1.6	0.9	2.5	0						
Ireland	36	24	24	73	56						
Total water withdrawal excluding produced water and flowback: ML	7,009	8,248	9,590	9,819	9,822	Approximately 85% of water withdrawal is produced water	303-3				
Canada	187	141	154	334	342	2023 increase due to Mica drilling program					
France	494	581	420	420	360	2023 decrease due to replacement of groundwater well with pipeline for recycled water					
Netherlands	11	5	5	13	20						
Australia	6,189	7,398	8,949	8,992	8,942						
United States	106	109	51	0.32	112						
Germany	3	1.7	0.7	1.0	1						
Central and Eastern Europe - Hungary and Croatia	3.9	1.6	0.9	2.5	0						
Ireland	16	12	9	58	45						
Total Water Withdrawal including produced water, by source											
Surface/Freshwater, including rainwater, wetlands, rivers, lakes: ML	44	12	124	368	372	Total dissolved solids <10,000mg/L	EM-EP-140a.1				
Canada	40	12	124	312	324	2021 increase offset by reduction in renewable groundwater; 2022 increase due to new Mica operations					
France	0	0	0	0	0						
Netherlands	4	0	0	6	13						
Australia	0	0	0	0	0						
United States	0	0	0	0	0						
Germany	0	0	0	0	0						
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0						
Ireland	0	0	0	50	35						
Surface/Brackish water, including oceans: ML	198	7,398	8,949	8,992	8,942	Total dissolved solids >10,000mg/L					
Australia	6,189	7,398	8,949	8,992	8,942	Only applicable in Australia					
Groundwater - renewable: ML	622	691	436	425	477	Generally shallower groundwater resources that can be replenished/recharged within ~50 years	EM-EP-140a.1				
Canada	128	116	22	13	13						
France	494	575	414	412	352	2023 decrease due to replacement of groundwater well with pipeline for recycled water					
Netherlands	0	0	0	0	0						
Australia	0	0	0	0	0						
United States	0	0	0	0	112	Increase due to 2023 Drilling and Completions program					
Germany	0	0	0	0	0						
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0						
Ireland	0	0	0	0	0						
Groundwater - non-renewable, excluding produced water and flowback: ML	106	109	50	0	0	Generally deeper groundwater resources that have negligible recharge within ~50 years					
United States	106	109	50	0	0						
Groundwater - non-renewable, produced water and flowback: ML	63,148	58,955	56,016	52,838	33,101	Includes formation water, flow-back water and condensation water					
Canada	39,047	34,711	31,484	30,246	16,691	2023 decrease due to divestment in Saskatchewan					
France	14,370	13,322	13,289	12,562	12,597						
Netherlands	14	20	9	7	19						
Australia	9,082	9,988	9,963	8,508	2,181						
United States	221	275	251	393	542	Includes third-party produced water volumes					
Germany	395	626	1,004	1,108	1,060						
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0						
Ireland	20	12	15	15.3	11.1						
Third-party sources - Municipal water supplies or utilities: ML	49	38	29	35	30		EM-EP-140a.1				
Canada	19	13	7	9	4					342.1	342,055
France	0	6	6	8	8					360.5	360,480
Netherlands	8	5	5	7	7					19.6	19,568
Australia	0	0	0	0	0					-	-
United States	0.0	0.3	0.3	0.3	0.3					111.9	111,875
Germany	2.2	1.2	0.7	1.0	0.9					0.9	880
Central and Eastern Europe - Hungary and Croatia	3.9	1.6	0.9	2.5	0.1					0.1	113
Ireland	16	12	9	7.8	9.7					44.6	44,575
Total Freshwater Withdrawal = renewable groundwater + surface water + third party potable sources: ML	715	741	590	828	880		EM-EP-140a.1 303-3				879,546
Total freshwater intensity: ML/operated boe	0.000016	0.000018	0.000016	0.000023	0.000027	Freshwater defined as surface/freshwater + groundwater renewable + third-party sources					
Water sources significantly affected by water withdrawal: #	0	0	0	0	0	Sustained inability to meet human &/or ecological requirements of availability, quality or accessibility	303-1				
Water recycled and reused = reduction in water use: ML	0	0	0	0	53		303-1				
Canada	0	0	0	0	53						
Water recycled and reused: %	0%	0%	0%	0%	1%	Based on water withdrawals excluding produced water	303-3				

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Annual Production - Operated facility throughput including third-party volumes: boe	44,708,966	42,202,207	36,865,352	35,634,107	32,961,096	Use for water intensity calculations to ensure numerator/denominator alignment						
WATER DISCHARGE	2019	2020	2021	2022	2023	Effective 2019, water discharge is reported in alignment with CDP definitions for destinations	303-4					
Total water discharge all destinations, including produced water and flowback: ML	70,158	67,203	65,603	62,655	42,892							
Canada	39,234	34,847	31,638	30,580	17,003							
France	14,863	13,903	13,709	12,982	12,957							
Netherlands	25	25	13	16	39							
Australia	15,270	17,386	18,912	17,500	11,123							
United States	326	384	302	393	654							
Germany	397	630	1,005	1,109	1,060							
Central and Eastern Europe - Hungary and Croatia	3.9	3.9	0.9	2.5	0							
Ireland	36	24	24	73	56							
Total water discharge excluding produced water and flowback: ML	6,484	8,248	9,168	9,816	9,573							
Canada	181	136	154	334	93							
France	0	581	420	420	360							
Netherlands	20	5	3	10	20							
Australia	6,189	7,398	8,949	8,992	8,942							
United States	51	109	51	0.3	112							
Germany	2.6	4.0	0.7	1.0	1							
Central and Eastern Europe - Hungary and Croatia	3.9	3.9	0.9	2.5	0							
Ireland	36	12	9	58	45							
Surface/Freshwater, including rainwater, wetlands, rivers, lakes: ML	0	0	0	0	0							
United States	0	0	0	0.18	0							
Surface/Brackish water, including oceans: ML	15,272	17,386	18,912	17,549	11,158							
Australia	15,270	17,386	18,912	17,500	11,123							
Ireland	2	0	0	50	35	No produced water discharged offshore 2020-2023; 2022-2023 volumes include discharge of treated rainwater						
Groundwater - renewable: ML	3	2	11	73	100							
Canada	3.3	2.3	11	65	90							
Ireland	0	0	0	8	10							
Groundwater - non-renewable, excluding produced water and flowback: ML	0	109	32	0	0							
United States	0	109	32	0	0							
Groundwater - non-renewable, produced water and flowback: ML	54,592	48,910	46,005	44,275	31,243	2023 decrease due to divestment of Queensdale in Saskatchewan; 311 ML added to balance withdrawals (difference estimated related to unrecovered frac fluid)	EM-EP-140a.1					
Canada	39,053	34,681	31,442	30,207	16,910							
France	14,863	13,322	13,289	12,562	12,605							
Netherlands	5	6	0	6	15							
Australia	0	0	0	0	0							
United States	276	275	270	393	654							
Germany	395	626	1,004	1,108	1,060							
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0							
Ireland	0	0	0	0	0							
Third-party facilities - Municipal or Private: ML	289	792	643	757	392							
Canada	178	165	184	308	3							
France	0	581	420	420	352							
Netherlands	20	19	13	11	24	2022 and 2023 updated to included rainwater hauled for third-party disposal						
Australia	0	0	0	0	0							
United States	51	0.5	0.5	0.3	0.3							
Germany	2.2	1.7	0.7	1.0	0.9							
Central and Eastern Europe - Hungary and Croatia	3.9	1.6	0.9	2.5	0.1							
Ireland	34	24	24	15	11							
Other - Water still in storage - (net increase or decrease)	0	0	2	3	30							
Canada	0	0	0	0	30.3	Water stored in C-ring tanks						
Netherlands	0.3	0.3	2	3	0							
Water bodies significantly affected by discharges of water	0	0	0	0	0	Defined as sustained inability to meet human &/or ecological requirements of availability, quality, accessibility	306-5					
Volume and % of produced water by disposal method:												
Reused: % and volume	0	0	0	0	0		GRI 11.6.5					
Recycled: %	0	0	0	0	0		GRI 11.6.5					
Recycled - volume: ML	0	0	0	0	53		GRI 11.6.5					
Canada	0	0	0	0	53							
Reinjected: %	86	83	82	84	93		GRI 11.6.5					
Reinjected - volume: ML	54,037	48,840	46,028	44,274	30,845		GRI 11.6.5					
Canada	39,047	34,711	31,484	30,207	16,910							
France	14,370	13,222	13,289	12,562	12,597							
Netherlands	5	6	0	6	15							
Australia	0	0	0	0	0							
United States	221	275	251	393	264	2022 includes third-party produced water volumes						
Germany	395	626	1,004	1,107	1,060							
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0							
Ireland	0	0	0	0	0							

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Hydrocarbon discharged within produced water: tonnes	73	117	99	68	11	Refers to discharges to surface water or renewable (shallow) groundwater	EM-EP-140a.3				
Canada	0	0	0	0	0		GRI 11.6.5				
France	0	0	0	0	0		GRI 11.6.5				
Netherlands	0	0	0	0	0		GRI 11.6.5				
Australia	73	117	99	68.1	11.0		GRI 11.6.5				
United States	0	0	0	0	0		GRI 11.6.5				
Germany	0	0	0	0	0		GRI 11.6.5				
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0		GRI 11.6.5				
Ireland	0	0	0	0	0	No produced water discharged offshore in 2023	GRI 11.6.5				
Annual Water Consumption: ML	0	0	0	0	0	Total water withdrawals - total water discharges	303-5				
Percentage of workers with fully-functioning, safely managed WASH (water, sanitation and hygiene) facilities	100	100	100	100	100		CDP				