

MATERIAL TOPIC: WATER, INCLUDING PRODUCED WATER	2020	2021	2022	2023	2024	CONTEXT	SASB
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 water intensity calculations to ensure numerator/denominator alignment	
WATER WITHDRAWALS	2020	2021	2022	2023	2024		
Total water withdrawal including produced water: ML	67,202	65,605	62,658	42,922	37,610	Reporting aligned with CDP's definitions & informed by SASB EM-EP-140a.1 and 2; includes unit conversion from m3 to ML (ML = m3/1000)	EM-EP-140a.1 303-3
Canada	34,852	31,638	30,580	17,033	6,594	2023-2024 reduction from Saskatchewan Queensdale divestment	
France	13,903	13,709	12,982	12,957	12,819		
Netherlands	25	15	19	39	42		
Australia	17,386	18,912	17,500	11,123	16,627		
United States	384	302	393	654	496	2023 increase due to drilling and completions program	
Germany	628	1,005	1,109	1,060	949		
Central and Eastern Europe	1.6	0.9	2.5	0.1	3.7		
Ireland	24.0	24.2	72.9	55.6	79		
Total water withdrawal excluding produced water and flowback: ML	8,248	9,590	9,819	9,822	9,952	Approximately 85% of water withdrawal is produced water	
Canada	141	154	334	342	532		
France	581	420	420	360	363		
Netherlands	5	5	13	20	20		
Australia	7,398	8,949	8,992	8,942	8,967		
United States	109	51	0	112	4.3		
Germany	1.7	0.7	1.0	0.9	1.0		
Central and Eastern Europe	1.6	0.9	2.5	0.1	0.1		
Ireland	12	9	58	45	65		
Total Water Withdrawal including produced water, by source							
Surface/Freshwater, including rainwater, wetlands, rivers, lakes: ML	12	124	368	372	575	Total dissolved solids <10,000mg/L	EM-EP-140a.1
Canada	12	124	312	324	505	2021 increase offset by reduction in renewable groundwater; 2022 increase due to new Mica operations	
France	0	0	0	0	0		
Netherlands	0	0	6	13	14		
Australia	0	0	0	0	0		
United States	0	0	0	0	0		
Germany	0	0	0	0	0		
Central and Eastern Europe	0	0	0	0	0		
Ireland	0	0	50	35	56		
Surface/Brackish water, including oceans: ML	7,398	8,949	8,992	8,942	8,967	Total dissolved solids >10,000mg/L	
Australia	7,398	8,949	8,992	8,942	8,967	Only applicable in Australia	
Groundwater - renewable: ML	691	436	425	477	369	Generally shallower groundwater resources that can be replenished/recharged within ~50 years	EM-EP-140a.1
Canada	116	22	13	13	12		
France	575	414	412	352	353	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	112	4	No drilling program in 2024	
Germany	0	0	0	0	0		
Central and Eastern Europe	0.0	0.0	0.0	0.0	0.1		
Ireland	0	0	0	0	0		
Groundwater - non-renewable, excluding produced water and flowback: ML	109	50	0	0	0	Generally deeper groundwater resources that have negligible recharge within ~50 years	
United States	109	50	0	0	0		
Groundwater - non-renewable, produced water and flowback: ML	58,955	56,016	52,838	33,101	27,658	Includes formation water, flow-back water and condensation water	
Canada	34,711	31,484	30,246	16,691	6,063	2023-2024 reduction from Saskatchewan Queensdale divestment	
France	13,322	13,289	12,562	12,597	12,456		
Netherlands	20	9	7	19	22		
Australia	9,988	9,963	8,508	2,181	7,660		
United States	275	251	393	542	492	Includes third-party produced water volumes	

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Germany	626	1,004	1,108	1,060	948		
Central and Eastern Europe	0.0	0.0	0.0	0.0	3.6		
Ireland	12	15	15	11	14		
Third-party sources - Municipal water supplies or utilities: ML	38	29	35	30	41		EM-EP-140a.1
Canada	13	7	9	4	14		
France	6	6	8	8	10		
Netherlands	5	5	7	7	6		
Australia	0	0	0	0	0		
United States	0	0	0	0	0		
Germany	1	1	1	1	1		
Central and Eastern Europe	2	1	2	0	0		
Ireland	12	9	8	10	9	Dominantly onsite domestic uses	
Total Freshwater Withdrawal = renewable groundwater + surface water + third party potable sources: ML	741	590	828	880	985		EM-EP-140a.1
Total freshwater intensity: ML/operated boe	0.000018	0.000016	0.000023	0.000027	0.000031	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	
Water recycled and reused = reduction in water use: ML	0	0	0	53	130		
Canada	-	0	0	53	130		
WATER DISCHARGE	2020	2021	2022	2023	2024	Effective 2019, water discharge is reported in alignment with CDP definitions for destinations	
Total water discharge all destinations, including produced water and flowback: ML	67,203	65,603	62,655	42,892	37,650		
Canada	34,848	31,638	30,580	17,073	6,634	2023-2024 reduction from Saskatchewan Queensdale divestment	
France	13,903	13,709	12,982	12,957	12,819		
Netherlands	25	13	16	39	42		
Australia	17,386	18,912	17,500	11,123	16,627		
United States	384	302	393	654	496		
Germany	630	1,005	1,109	1,060	949		
Central and Eastern Europe	4	1	2	0.1	3.7		
Ireland	24	24	73	56	79		
Total water discharge excluding produced water and flowback: ML	8,248	9,168	9,816	9,573	9,969		
Canada	136	154	334	93	550		
France	581	420	420	360	363		
Netherlands	5	3	10	20	20		
Australia	7,398	8,949	8,992	8,942	8,967		
United States	109	51	0	112	4		
Germany	4	1	1	1	1		
Central and Eastern Europe	4	1	2	0	0		
Ireland	12	9	58	45	65		
Surface/Freshwater, including rainwater, wetlands, rivers, lakes: ML	0	0	0	0	0		
United States	0	0	0	0	0		
Surface/Brackish water, including oceans: ML	17,386	18,912	17,549	11,158	16,683		
Australia	17,386	18,912	17,500	11,123	16,627		
Ireland	0	0	50	35	56	No produced water discharged offshore 2020-2023; 2022-2024 volumes include discharge of treated rainwater	
Groundwater - renewable: ML	2	11	73	100	50		
Canada	2.3	10.7	65	90	41		
France	0	0	0	0	0		
Netherlands	0	0	0	0	0		
Australia	0	0	0	0	0		
United States	0	0	0	0	0		
Germany	0	0	0	0	0		

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Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0.1		
Ireland	0	0	8	10	9	Septic system weeping bed	
Groundwater - non-renewable, excluding produced water and flowback: ML	109	32	0	0	4		
United States	108.7	32.3	0	0	4		
Groundwater - non-renewable, produced water and flowback: ML	48,910	46,005	44,275	31,243	19,999		EM-EP-140a.1
Canada	34,681	31,442	30,207	16,599	6,085	2023-2024 reduction from Saskatchewan Queensdale divestment; 311 ML added to balance withdrawals (estimated related to unrecovered frac fluid)	
France	13,322	13,289	12,562	12,605	12,456		
Netherlands	6.0	0.0	6	15	19		
Australia	0.0	0.0	0.0	0.0	0.0		
United States	274.9	269.6	393	654	492		
Germany	626.0	1004.0	1,108	1,060	948		
Central and Eastern Europe	0	0	0	0	0		
Ireland	0	0	0	0	0		
Third-party facilities - Municipal or Private: ML	792	643	757	392	589		
Canada	165.0	184.5	308	354	184		
France	581.0	419.7	420	352	363		
Netherlands	18.5	12.9	11	24	23	2022 and 2023 updated in 2024 to include rainwater hauled for third-party disposal	
Australia	0.0	0.0	0	0	0		
United States	0.5	0.5	0	0	0		
Germany	1.7	0.7	1.0	0.9	1.0		
Central and Eastern Europe	1.6	0.9	2.5	0.1	3.6		
Ireland	24	24	15	11	14		
Other - Water still in storage - (net increase or decrease)	0	2	3	30	325		
Canada	-	0	0	30	325	Water stored in C-ring tanks	
Netherlands	0.3	2	3	0	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	
Volume and % of produced water by disposal method:							
Recycled: %	0.0	0.0	0.0	0.2	0.5		
Recycled - volume: ML	0	0	0	53	130		
Canada	0	0	0	53	130		
Reinjected: %	83	82	84	93	72		
Reinjected - volume: ML	48,840	46,028	44,274	30,845	20,003		
Canada	34,711	31,484	30,207	16,910	6,085		
France	13,222	13,289	12,562	12,597	12,456		
Netherlands	6	0	6	15	19		
Australia	0	0	0	0	0		
United States	275	251	393	542	492	2023 updated to included third-party produced water volumes	
Germany	626	1,004	1,107	1,060	948		
Central and Eastern Europe	0	0	0	0	4		
Ireland	0	0	0	0	0		
Hydrocarbon discharged within produced water: tonnes	117	99	68	11	44	Refers to discharges to surface water or renewable (shallow) groundwater	EM-EP-140a.3
Australia	117	99	68	11	44		
Annual Water Consumption: ML	0	0	0	30	-40	Total water withdrawals - total water discharges	