| MATERIAL TODIC, WATER INCLUDING PRODUCED WATER | 2040 | 2040 | 2020 | 2024 | CONTENT | CDI/CACD |
|---|------------|------------|------------|------------|---|-----------------------|
| MATERIAL TOPIC: WATER, INCLUDING PRODUCED WATER | 2018 | 2019 | 2020 | 2021 | 2022 CONTEXT | GRI/SASB |
| Annual Production - Annual Report figure, financial control: boe | 31,853,185 | 36,630,232 | 34,839,540 | 31,173,190 | 31,093,255 | |
| Annual Production - Annual Report minus non-operated volumes (CDP): boe | 28,712,829 | 36,604,811 | 34,723,518 | 31,154,575 | 31,058,580 2015-2016: excludes non-op volumes from GBU & IBU; 2017: excludes non-op from IBU; 2018: excludes ~11 months non-op from IBU | |
| Annual Production - Operated facility throughput including third-party volumes: | 29,440,819 | 44,708,966 | 42,202,207 | 36,865,352 | 35,634,107 Use for water intensity calculations to ensure numerator/denominator alignment | |
| WATER WITHDRAWALS | 2018 | 2019 | 2020 | 2021 | 2022 | |
| Total water withdrawal including produced water: ML | 43,041 | 70,158 | 67,202 | 65,605 | Until 2018, the production and re-use of produced water was reported separately from water withdrawn from other 62,602 sources. 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 | 17,833 | 39,234 | 34,852 | 31,638 | 30,580 | |
| France | 15,730 | 14,863 | 13,903 | 13,709 | 12,982 | |
| Netherlands | 46 | 25 | 25 | 15 | 13 | |
| Australia | 8,795 | 15,270 | 17,386 | 18,912 | 17,500 | |
| United States | 108 | 326 | 384 | 302 | 393 | |
| Germany | 526 | 397 | 628 | 1,005 | 1,109 | |
| Central and Eastern Europe - Hungary and Croatia | 1.1 | 3.9 | 1.6 | 0.9 | 2.5 | |
| Ireland | 2 | 36 | 24 | 24 | 23.1 | |
| Total water withdrawal excluding produced water: ML | 767 | 7,009 | 8,248 | 9,590 | 9,763 Approximately 85% of water withdrawal is produced water | 303-3 |
| Canada | 113 | 187 | 141 | 154 | 334 | |
| France | 625 | 494 | 581 | 420 | 420 | |
| Netherlands | 27 | 11 | 5 | 5 | 7 | |
| Australia | 0 | 6,189 | 7,398 | 8,949 | 8,992 | |
| United States | 0 | 106 | 109 | 51 | 0.32 | |
| Germany | 0 | 3 | 1.7 | 0.7 | 1.0 | |
| Central and Eastern Europe - Hungary and Croatia | 1.1 | 3.9 | 1.6 | 0.9 | 2.5 | |
| Ireland | 2 | 16 | 12 | 9 | 7.8 | |
| Total Water Withdrawal including produced water, by source | | | | | | |
| Surface/Freshwater, including rainwater, wetlands, rivers, lakes: ML | 16 | 44 | 12 | 124 | 312 Total dissolved solids <10,000mg/L | EM-EP-140a.1 |
| Canada | 16 | 40 | 12 | 124 | 312 2021 increase offset by reduction in renewable groundwater; 2022 increase due to new Mica operations | |
| France | 0 | 0 | 0 | 0 | 0 | |
| Netherlands | 0 | 4 | 0 | 0 | 0 | |
| 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 | 0 | |
| Surface/Brackish water, including oceans: ML | 213 | 198 | 7,398 | 8,949 | 8,992 Total dissolved solids >10,000mg/L | |
| Australia | 213 | 6,189 | 7,398 | 8,949 | 8,992 Only applicable in Australia | |
| Groundwater - renewable: ML | 700 | 622 | 691 | 436 | 425 Generally shallower groundwater resources that can be replenished/recharged within ~50 years | EM-EP-140a.1 |
| Canada | 82 | 128 | 116 | 22 | 13 | |
| France | 618 | 494 | 575 | 414 | 412 | |
| Netherlands | 1 | 0 | 0 | 0 | 0 | |
| 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 | 0 | 0 | |
| Groundwater - non-renewable, excluding produced water: ML | 47 | 106 | 109 | 50 | 0 Generally deeper groundwater resources that have negligible recharge within ∼50 years | |

| MATERIAL TOPIC: WATER, INCLUDING PRODUCED WATER 2018 2019 2020 2021 2022 CONTEXT Annual Production - Annual Report figure, financial control: boe 31,853,185 36,630,232 34,839,540 31,173,190 31,093,255 2015-2016: excludes non-op volumes from GBU & IBU; 2017: excludes non-op from IBU; 2018: excludes "11 months non-operated facility throughput including third-party volumes: Page 44,708,966 42,702,207 36,853,322 31,154,575 31,058,2580 2015-2016: excludes non-op volumes from GBU & IBU; 2017: excludes non-op from IBU; 2018: excludes "11 months non-operated facility throughput including third-party volumes: Page 44,708,966 42,702,207 36,853,322 35,634,107 Use for water intensity calculations to ensure numerator/denominator alignment Borourdwater - non-renewable, produced water: ML 42,274 63,488 85,955 50,06 52,838 includes formation water, flow-back water and condensation water Canada 117,770 39,047 34,711 31,484 30,246 France 15,165 14,370 13,322 13,280 15,562 United States 106 22 277 251 333 20222 includes third-party produced water volumes (East Finn, Kissack, Tall Grass) Germany< | GRI/SASB EM-EP-140a.1 |
|---|------------------------|
| Annual Production - Annual Report minus non-operated volumes (CDP): boe 28,712,829 36,604.811 34,723,518 31,154,575 31,058,580 2015-2016: excludes non-op volumes from GBU & IBU; 2017: excludes non-op from IBU; 2018: excludes "11 months non op from IBU 10 | EM-EP-140a.1 |
| Annual Production - Annual Report minus non-operated facility throughput including third-party volumes: Dec | EM-EP-140a.1 |
| Dec | EM-EP-140a.1 |
| United States | EM-EP-140a.1 |
| Groundwater - non-renewable, produced water: ML 42,274 63,148 58,955 56,016 52,838 Includes formation water, flow-back water and condensation water Canada 17,720 39,047 34,711 31,484 30,246 France 15,105 14,370 13,322 13,289 12,562 Netherlands 20 14 20 9 7 Australia 8,795 9,982 9,988 9,963 8,508 United States 108 221 275 251 393 2022 includes third-party produced water volumes (East Finn, Kissack, Tall Grass) Germany 526 395 626 1,004 1,108 Central and Eastern Europe - Hungary and Croatia 0 0 0 0 0 Ireland 0 20 12 15 15.3 15 Third-party sources - Municipal water supplies or utilities: ML 51 49 38 29 35 Canada 15 19 13 7 9 France | EM-EP-140a.1 |
| France 15,105 14,370 13,322 13,289 12,562 Netherlands 20 14 20 9 7 Australia 8,795 9,082 9,988 9,963 8,508 United States 108 221 275 251 393 2022 includes third-party produced water volumes (East Finn, Kissack, Tall Grass) Germany 526 395 626 1,004 1,108 Central and Eastern Europe - Hungary and Croatia 0 0 0 0 Ireland 0 20 12 15 15.3 Third-party sources - Municipal water supplies or utilities: ML 51 49 38 29 35 Canada 15 19 13 7 9 France 7 0 6 6 8 Netherlands 26 8 5 5 7 Australia 0 0 0 0 0 United States 0 0 0 | EM-EP-140a.1 |
| France 15,105 14,370 13,322 13,289 12,562 Netherlands 20 14 20 9 7 Australia 8,795 9,082 9,988 9,963 8,508 United States 108 221 275 251 393 2022 includes third-party produced water volumes (East Finn, Kissack, Tall Grass) Germany 526 395 626 1,004 1,108 Central and Eastern Europe - Hungary and Croatia 0 0 0 0 Ireland 0 20 12 15 15.3 Third-party sources - Municipal water supplies or utilities: ML 51 49 38 29 35 Canada 15 19 13 7 9 France 7 0 6 6 8 Netherlands 26 8 5 5 7 Australia 0 0 0 0 0 United States 0 0 0 | EM-EP-140a.1 |
| Netherlands 20 14 20 9 7 Australia 8,795 9,082 9,988 9,963 8,508 United States 108 221 275 251 393 2022 includes third-party produced water volumes (East Finn, Kissack, Tall Grass) Germany 526 395 626 1,004 1,108 Central and Eastern Europe - Hungary and Croatia 0 0 0 0 0 Ireland 0 20 12 15 15.3 15.3 Third-party sources - Municipal water supplies or utilities: ML 51 49 38 29 35 Granda 15 19 13 7 9 France 7 0 6 6 8 Netherlands 26 8 5 5 7 Australia 0 0 0 0 0 United States 0 0 0 0 0 | EM-EP-140a.1 |
| United States 108 221 275 251 393 2022 includes third-party produced water volumes (East Finn, Kissack, Tall Grass) Germany 526 395 626 1,004 1,108 Central and Eastern Europe - Hungary and Croatia 0 0 0 0 Ireland 0 20 12 15 15.3 Third-party sources - Municipal water supplies or utilities: ML 51 49 38 29 35 Canada 15 19 13 7 9 France 7 0 6 8 Netherlands 26 8 5 5 7 Australia 0 0 0 0 0 United States 0 0 0 0 0 | EM-EP-140a.1 |
| United States 108 221 275 251 393 2022 includes third-party produced water volumes (East Finn, Kissack, Tall Grass) Germany 526 395 626 1,004 1,108 Central and Eastern Europe - Hungary and Croatia 0 0 0 0 Ireland 0 20 12 15 15.3 Third-party sources - Municipal water supplies or utilities: ML 51 49 38 29 35 Canada 15 19 13 7 9 France 7 0 6 8 Netherlands 26 8 5 5 7 Australia 0 0 0 0 0 United States 0 0 0 0 0 | EM-EP-140a.1 |
| Germany 526 395 626 1,004 1,108 Central and Eastern Europe - Hungary and Croatia 0 0 0 0 Ireland 0 20 12 15 15.3 Third-party sources - Municipal water supplies or utilities: ML 51 49 38 29 35 Canada 15 19 13 7 9 France 7 0 6 6 8 Netherlands 26 8 5 5 7 Australia 0 0 0 0 0 United States 0 0 0 0 0 | EM-EP-140a.1 |
| Central and Eastern Europe - Hungary and Croatia 0 0 0 0 0 0 15.3 | EM-EP-140a.1 |
| Ireland 0 20 12 15 15.3 Third-party sources - Municipal water supplies or utilities: ML 51 49 38 29 35 Canada 15 19 13 7 9 France 7 0 6 8 Netherlands 26 8 5 7 Australia 0 0 0 0 United States 0 0 0 0 | EM-EP-140a.1 |
| Third-party sources - Municipal water supplies or utilities: ML 51 49 38 29 35 Canada 15 19 13 7 9 France 7 0 6 6 8 Netherlands 26 8 5 5 7 Australia 0 0 0 0 0 United States 0 0 0 0 0 | EM-EP-140a.1 |
| Canada 15 19 13 7 9 France 7 0 6 8 Netherlands 26 8 5 5 7 Australia 0 0 0 0 0 United States 0 0 0 0 0 | |
| Netherlands 26 8 5 5 7 Australia 0 0 0 0 0 United States 0 0 0 0 0 | |
| Australia 0 0 0 0 0 United States 0 0 0 0 0 0 | |
| United States 0 0 0 0 0 | |
| | |
| | |
| Germany 0.1 2.2 1.2 0.7 1.0 | |
| Central and Eastern Europe - Hungary and Croatia 1.1 3.9 1.6 0.9 2.5 | |
| Ireland 2 16 12 9 7.8 | |
| Total Freshwater Withdrawal = renewable groundwater + surface water + third party potable sources: ML 767 715 741 590 772 | EM-EP-140a.1 303-3 |
| Total freshwater intensity: ML/operated boe 0.000026 0.000016 0.000018 0.000016 0.000022 Freshwater defined as surface/freshwater + groundwater renewable + third-party sources | 3333 |
| Water sources significantly affected by water withdrawal: # 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 0 | 303-1 |
| Water recycled and reused: % 0% 0% 0% Based on water withdrawals excluding produced water | 303-3 |
| WATER DISCHARGE 2018 2019 2020 2021 2022 Effective 2019, water discharge is reported in alignment with CDP definitions for destinations | 303-4 |
| Total water discharge all destinations, including produced water: ML 70,158 67,203 65,603 62,599 | |
| Canada 39,234 34,847 31,638 30,580 | |
| France 14,863 13,903 13,709 12,982 | |
| Netherlands 25 25 13 10 | |
| Australia 15,270 17,386 18,912 17,500 | |
| United States 326 384 302 393 2022 includes third-party produced water volumes (East Finn, Kissack, Tall Grass) | |
| Germany 397 630 1,005 1,109 | |
| Central and Eastern Europe - Hungary and Croatia 3.9 3.9 0.9 2.5 | |
| Ireland 36 24 24 23.1 | |
| Total water discharge excluding produced water: ML 8,896 6,484 8,248 9,168 9,760 | |
| Canada 15 181 136 154 334 | |
| France 0 0 581 420 420 | |
| Netherlands 58 20 5 3 4 | |
| Australia 8,795 6,189 7,398 8,949 8,992 | |
| United States 0 51 109 51 0.3 | |
| | |
| Germany 0 2.6 4.0 0.7 1.0 | |

| | 2012 | | | | | | |
|---|------------|------------|------------|------------|-------------|--|--------------|
| MATERIAL TOPIC: WATER, INCLUDING PRODUCED WATER | 2018 | 2019 | 2020 | 2021 | 2022 | CONTEXT | GRI/SASB |
| Annual Production - Annual Report figure, financial control: boe | 31,853,185 | 36,630,232 | 34,839,540 | 31,173,190 | 31,093,255 | | |
| Annual Production - Annual Report minus non-operated volumes (CDP): boe | 28,712,829 | 36,604,811 | 34,723,518 | 31,154,575 | 31 058 5801 | 2015-2016: excludes non-op volumes from GBU & IBU; 2017: excludes non-op from IBU; 2018: excludes $^{\sim}11$ months non-op from IBU | |
| Annual Production - Operated facility throughput including third-party volumes: | 29,440,819 | 44,708,966 | 42,202,207 | 36,865,352 | | Use for water intensity calculations to ensure numerator/denominator alignment | |
| lreland | 28 | 36 | 12 | 9 | 7.8 | , | |
| Surface/Freshwater, including rainwater, wetlands, rivers, lakes: ML | | 0 | 0 | 0 | 0 | | |
| United States | | 0 | 0 | 0 | 0.18 | | |
| Surface/Brackish water, including oceans: ML | | 15,272 | 17,386 | 18,912 | 17,500 | | |
| Australia | | 15,270 | 17,386 | 18,912 | 17,500 | | |
| Ireland | | 13,270 | 17,380 | 18,912 | | No produced water discharged offshore in 2020, 2021 or 2022 | |
| Groundwater - renewable: ML | | 3 | 2 | 11 | 65 | No produced water discharged offshore in 2020, 2021 of 2022 | |
| Canada | | 3.3 | 2.3 | 11 | 65 | | |
| France | | 0 | 0 | 0 | 0 | | |
| Netherlands | | 0 | 0 | 0 | 0 | | |
| Australia | | 0 | 0 | 0 | 0 | | |
| United States | | 0 | 0 | 0 | 0 | | |
| Germany | | 0 | 0 | 0 | 0 | | |
| Central and Eastern Europe - Hungary and Croatia | | 0 | 0 | 0 | 0 | | |
| Ireland | | 0 | 0 | 0 | 0 | | |
| Groundwater - non-renewable, excluding produced water: ML | | 0 | 109 | 32 | 0 | | |
| United States | | 0 | 109 | 32 | 0 | | |
| Groundwater - non-renewable, produced water: ML | | 54,592 | 48,910 | 46,005 | 44,275 | | EM-EP-140a.1 |
| Canada | | 39,053 | 34,681 | 31,442 | 30,207 | | |
| France | | 14,863 | 13,322 | 13,289 | 12,562 | | |
| Netherlands | | 5 | 6 | 0 | 6 | | |
| Australia | | 0 | 0 | 0 | 0 | | |
| United States | | 276 | 275 | 270 | 393 | 2022 includes third-party produced water volumes (East Finn, Kissack, Tall Grass) | |
| Germany | | 395 | 626 | 1,004 | 1,108 | | |
| Central and Eastern Europe - Hungary and Croatia | | 0 | 0 | 0 | 0 | | |
| Ireland | | 0 | 0 | 0 | 0 | | |
| Third-party facilities - Municipal or Private: ML | | 289 | 792 | 643 | 759 | | |
| Canada | | 178 | 165 | 184 | 308 | | |
| France | | 0 | 581 | 420 | 420 | | |
| Netherlands | | 20 | 19 | 13 | 4 | | |
| Australia | | 0 | 0 | 0 | 0 | | |
| United States | | 51 | 0.5 | 0.5 | 0.3 | | |
| Germany | | 2.2 | 1.7 | 0.7 | 1.0 | | |
| Central and Eastern Europe - Hungary and Croatia | | 3.9 | 1.6 | 0.9 | 2.5 | | |
| Ireland | | 34 | 24 | 24 | 23 | | |
| Other - Water still in storage - NL only | | 0 | 0 | 2 | 3 | | |
| 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 | 1 | 0 | 0 | 0 | 0 | | GRI 11.6.5 |
| Canada | 0 | 0 | 0 | 0 | 0 | | |
| France | 0 | 0 | 0 | 0 | 0 | |] |

| MATERIAL TOPIC: WATER, INCLUDING PRODUCED WATER | 2018 | 2019 | 2020 | 2021 | 2022 CONTEXT | GRI/SASB |
|--|--------------|--------------|------------|------------|--|--------------|
| Annual Production - Annual Report figure, financial control: boe | 31,853,185 | 36,630,232 | 34,839,540 | 31,173,190 | 31,093,255 | |
| Annual Production - Annual Report minus non-operated volumes (CDP): boe | 28,712,829 | 36,604,811 | 34,723,518 | 31,154,575 | 2015-2016: excludes non-op volumes from GBU & IBU; 2017: excludes non-op from IBU; 2018: excludes ~11 months non-op from IBU | |
| Annual Production - Operated facility throughput including third-party volumes: | 29,440,819 | 44,708,966 | 42,202,207 | 36,865,352 | 35,634,107 Use for water intensity calculations to ensure numerator/denominator alignment | |
| boe | 23) 1 10,023 | 1 1,7 00,500 | ,, | 30,000,002 | 30/30 //20 | |
| Netherlands | 0 | 0 | 0 | 0 | | |
| Australia | 0 | 0 | 0 | 0 | 0 | |
| United States | 0 | 0 | 0 | 0 | 0 | |
| Germany | 1 | 0 | 0 | 0 | 0 | |
| Central and Eastern Europe - Hungary and Croatia | 0 | 0 | 0 | 0 | 0 | |
| Ireland | 0 | 0 | 0 | 0 | 0 | |
| Reinjected: % | 79 | 86 | 83 | 82 | 84 | GRI 11.6.5 |
| Reinjected - volume: ML | 33,450 | 54,037 | 48,840 | 46,028 | 44,274 | GRI 11.6.5 |
| Canada | 17,728 | 39,047 | 34,711 | 31,484 | 30,207 | |
| France | 15,105 | 14,370 | 13,222 | 13,289 | 12,562 | |
| Netherlands | 9 | 5 | 6 | 0 | 6 | |
| Australia | 0 | 0 | 0 | 0 | 0 | |
| United States | 83 | 221 | 275 | 251 | 393 2022 includes third-party produced water volumes (East Finn, Kissack, Tall Grass) | |
| Germany | 526 | 395 | 626 | 1,004 | 1,107 | |
| Central and Eastern Europe - Hungary and Croatia | 0 | 0 | 0 | 0 | 0 | |
| Ireland | 0 | 0 | 0 | 0 | 0 | |
| Hydrocarbon discharged within produced water: tonnes | 70 | 73 | 117 | 99 | 68 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 | 70 | 73 | 117 | 99 | 68.1 | 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 | GRI 11.6.5 |
| Annual Water Consumption: ML | | 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 New data reported beginning in 2019 to align with CDP | CDP |