

MATERIAL TOPIC - WASTE	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	2018: excludes ~11 months non-op from IBU	
Annual Production - Operated facility throughput including third-party volumes: boe	29,440,819			44,708,966			42,202,207			36,865,352			35,634,107	Use for intensity calculations to ensure numerator/denominator alignment	
WASTE	2018	2019			2020			2021			2022			Waste disposal data based on direct confirmation or information provided by the waste disposal contractor	GRI
		Hazardous	Non-Hazardous	Total	Hazardous	Non-Hazardous	Total	Hazardous	Non-Hazardous	Total	Hazardous	Non-Hazardous	Total	2019+ reporting breaks out hazardous and non-hazardous waste	
Waste by type and disposal method - Total: metric tonne	151,230	17,637	118,483	136,120	19,973	74,107	94,079	16,224	138,050	154,273	20,948	121,207	142,155		306-3
Canada	56,140	8,010	70,667	78,677	8,927	57,550	66,477	11,081	98,163	109,245	3,087	79,848	82,935		
France	4,505	1,384	2,589	3,972	619	1,754	2,372	319	224	543	517	1,145	1,662		
Netherlands	58,003	7,694	0	7,694	9,693	0	9,693	4,179	98	4,277	12,652	177	12,829		
Australia	665	89	465	554	163	156	319	453	123	576	234	83	316		
United States	28,578	0	37,753	37,753	0	14,539	14,539	0	38,895	38,895	0	26,577	26,577		
Germany	602	304	2,201	2,505	296	18	315	110	373	483	4,406	81	4,487		
Central and Eastern Europe - Hungary and Croatia	877	0	0	0	0	0	0	0	0	0	0	11,926	11,926		
Ireland	1,860	156	4,808	4,965	274	91	365	81	174	255	53	1,370	1,423		
Reuse: metric tonne	585	0	11	11	0	4	4	0	14	14	0	22	22		306-4
Canada	0	0	0	0	0	0	0	0	0	0	0	0	0		
France	0	0	0	0	0	0	0	0	0	0	0	0	0		
Netherlands	562	0	0	0	0	0	0	0	0	0	0	0	0		
Australia	23		11	11	0	4	4	0	4	4	0	4	4	Wooden pallets	
United States	0	0	0	0	0	0	0	0	0	0	0	0	0		
Germany	0	0	0	0	0	0	0	0	10	10	0	18	18		
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ireland	0	0	0	0	0	0	0	0	0	0	0	0	0		
Recycling: metric tonne	49,422	1,150	5,078	6,228	1,617	1,882	3,498	1,444	437	1,881	2,458	2,626	5,084		306-4
Canada	13	0	42	42	0	45	45	9	4	13	15	0	15		
France	305	139	46	185	223	1,727	1,950	16	209	225	65	1,084	1,150		
Netherlands	48,956	1,005	0	1,005	1,357	0	1,357	1,414	78	1,491	2,372	154	2,526		
Australia	143	2	71	73	5	60	65	3	85	88	4	41	45		
United States	0	0	136	136	0	0	0	0	5	5	0	22	22		
Germany	0	0	2	2	0	0	0	0	18	18	0	21	21		
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ireland	5	4	4,781	4,785	32	49	81	2	39	42	2	1,304	1,306		
Recovery, including energy recovery: metric tonne	301	289	3	292	47	14	61	194	19	213	367	10	376		306-4
Canada	0	0	0	0	0	0	0	0	0	0	0	0	0		
France	0	0	0	0	0	0	0	0	0	0	0	0	0		
Netherlands	0	137	0	137	2	0	2	194	9	203	106	10	116		
Australia	0			0	0	0	0	0	0	0	0	0	0		
United States	0	0	0	0	0	0	0	0	0	0	0	0	0		
Germany	301	152	3	155	45	14	59	0	10	10	260	0	260		
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ireland	0			0	0	0	0	0	0	0	0	0	0		
Incineration: metric tonne	1,374	2,122	46	2,168	850	64	914	1,005	141	1,146	873	158	1,031		306-5
Canada	0	0	0	0	0	0	0	0	0	0	0	0	0		
France	1,042	1,244	16	1,260	388	18	406	303	15	318	451	61	512		
Netherlands	23	573	0	573	7	0	7	528	12	540	305	14	319		
Australia	0	0	0	0	0	0	0	0	0	0	0	0	0		
United States	0	0	0	0	0	0	0	0	0	0	0	0	0		
Germany	301	152	3	155	238	4	242	95	5	100	66	42	108		
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ireland	8	153	27	180	217	42	259	79	110	189	51	41	92		
Deep well injection: metric tonne	51,514	7,272	77,670	84,942	9,446	41,496	50,942	9,345	93,832	103,177	11,151	68,320	79,471		306-5
Canada	15,365	1,683	41,262	42,945	2,672	28,563	31,235	9,325	61,569	70,894	885	48,557	49,442		

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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	2018: excludes ~11 months non-op from IBU				
Annual Production - Operated facility throughput including third-party volumes: boe	29,440,819		44,708,966		42,202,207		36,865,352		35,634,107	Use for intensity calculations to ensure numerator/denominator alignment				
France	0	0	0	0	0	0	0	0	0					
Netherlands	8,462	5,589	5,589	6,774	0	6,774	21	0	21	6,451	0	6,451		
Australia	0	0	0	0	0	0	0	0	0	0	0	0		
United States	27,687	0	36,408	36,408	0	12,933	12,933	0	32,263	32,263	0	19,763	19,763	
Germany	0	0	0	0	0	0	0	0	0	3,815	0	3,815		
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0	0	0	0	0	0	0	0		
Ireland	0	0	0	0	0	0	0	0	0	0	0	0		
Landfill: metric tonne	41,397	365	34,082	34,447	376	28,857	29,233	1,039	34,249	35,289	804	15,514	16,318	306-5
Canada	35,979	222	29,175	29,397	205	28,750	28,955	540	33,892	34,432	274	15,455	15,729	
France	3,151	0	2,527	2,527	8	8	16	0	0	0	0	0	0	
Netherlands	0	56	0	56	5	0	5	49	0	49	40	0	40	
Australia	499	87	383	470	158	92	250	450	33	483	230	37	267	
United States	891	0	17	17	0	8	8	0	13	13	0	22	22	
Germany	0	0	1,980	1,980	0	0	0	0	311	311	260	0	260	
Central and Eastern Europe - Hungary and Croatia	877	0	0	0	0	0	0	0	0	0	0	0	0	
Ireland	0	0	0	0	0	0	0	0	0	0	0	0	0	
On-site storage: metric tonne	0	334	1,405	1,739	1,587	1,341	2,928	1,989	6,659	8,648	3,382	3,260	6,642	306-5
Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	
France	0	0	0	0	0	0	0	0	0	0	0	0	0	
Netherlands	0	334	0	334	1,549	0	1,549	1,974	0	1,974	3,378	0	3,378	
Australia	0	0	0	0	0	0	0	0	0	0	0	0	0	
United States	0	0	1,192	1,192	0	1,341	1,341	0	6,614	6,614	0	3,235	3,235	
Germany	0	0	213	213	13	0	13	15	20	35	5	0	5	
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ireland	0	0	0	0	25	0	25	0	25	25	0	25	25	NORM waste
Other – Oilfield Waste Processing: metric tonne	6,637	6,105	188	6,293	6,050	449	6,499	1,208	2,698	3,905	1,913	31,298	33,211	306-2
Canada	4,783	6,105	188	6,293	6,050	192	6,242	1,208	2,698	3,905	1,913	15,836	17,749	
France	6	0	0	0	0	0	0	0	0	0	0	0	0	
Netherlands	0	0	0	0	0	0	0	0	0	0	0	0	0	
Australia	0	0	0	0	0	0	0	0	0	0	0	0	0	
United States	0	0	0	0	0	257	257	0	0	0	0	3,536	3,536	
Germany	0	0	0	0	0	0	0	0	0	0	0	0	0	
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0	0	0	0	0	0	0	11,926	11,926	
Ireland	1,848	0	0	0	0	0	0	0	0	0	0	0	0	
Weight of hazardous waste shipped internationally: metric tonne	90	206		206	270	0	270	147	0	147	57	0	57	306-5
Canada	0	0		0	0		0	0		0	0		0	
France	0	0		0	0		0	0		0	0		0	
Netherlands	69	0		0	0		0	0		0	0		0	
Australia	0	0		0	0		0	0		0	0		0	
United States	0	0		0	0		0	0		0	0		0	
Germany	0	0		0	0		0	0		0	0		0	
Central and Eastern Europe - Hungary and Croatia	0	0		0	0		0	0		0	0		0	
Ireland	20	206		206	270		270	147		147	57		57	
DRILL MUD AND CUTTINGS	2018	2019		2020		2021		2022						GRI 11
Drill mud & cuttings produced using non-aqueous drilling fluid, onshore disposal to controlled sites: tonne	14,970		14,710		17,184		12,549		11,694					
Canada	14,212		9,311		17,184		11,881		10,622					
France	758		854		0		0		0				0	No drilling activities in FBU

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Netherlands	0	885	0	668	905		
Australia	0	0	0	0	0		
United States	0	0	0	0	0		
Germany	0	0	0	0	168		
Central and Eastern Europe - Hungary and Croatia	0	3,660	0	0	0		
Ireland	0	0	0	0	0	No drilling activities in IBU	
Non-Aqueous drilling fluid re-used at another location (i.e. recovered and transported invert): m3	2,182	0	0	0	1,944		
United States	0	0	0	0	1,944		
Drill mud & cuttings produced using aqueous drilling fluid, onshore disposal to controlled sites: tonne	9,754	12,391	5,872	11,016	12,745		
Canada	4,837	5,689	5,088	6,890	5,777		
France	3,148	2,527	0	0	0		
Netherlands	0	250	43	1,167	585		
Australia	0	0	0	0	0		
United States	891	0	0	289	0		
Germany	0	3,925	0	289	1,251		
Central and Eastern Europe - Hungary and Croatia	877	0	742	2,671	5,132		
Ireland	0	0	0	0	0		
Drill mud & cuttings produced using aqueous drilling fluid, disposal at Vermilion controlled location: tonne	8,620	16,110	17,389	20,398	17,856		
Canada	6,648	14,918	16,048	12,830	11,756		
France	0	0	0	0	0		
Netherlands	0	0	0	0	0		
Australia	1,972	0	0	0	2,865		
United States	0	1,192	1,341	7,568	3,235		
Germany	0	0	0	0	0		
Central and Eastern Europe - Hungary and Croatia	0	0	0	0	0		
Ireland	0	0	0	0	0		
Verification / Certification							S&P Global
Sites where waste data is third-party verified							
Canada			Yes	Yes	Yes		
France			Yes	Yes	Yes		
Netherlands			Yes	Yes	Yes		
Ireland			No	Yes	Yes		
Sites where waste management is ISO 14001 certified							
Canada			Yes	Yes	Yes	Waste contractor is ISO14001 certified	
Australia			Yes	Yes	Yes	Waste contractor is ISO14001 certified	
Germany			Yes	Yes	Yes	Waste contractor is ISO14001 certified	
Ireland			Yes	Yes	Yes	Waste contractor is ISO14001 certified	
Sites where hazardous waste management is HAZWOPER certified							
Ireland			Yes	Yes	Yes		