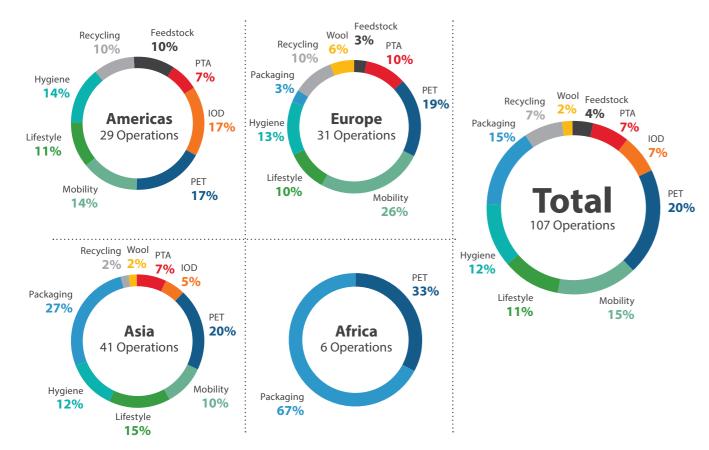
Global Performance Data

Our 2020 Sustainability Report covers 107 sites across the globe in all business units including PET, Feedstock (PTA, PIA, EO/EG, PX, NDC), IOD, Fibers, Packaging, Recycling and wool as listed below.



Coverage of Data Collection (% of Total IVL Global Production)

Material Indicators	2017	2018	2019	2020
Total energy consumption	100	100	100	100
Direct GHG Emissions Scope 1	100	100	100	100
Indirect GHG Emissions Scope 2	100	100	100	100
Total NOx Emissions	100	100	100	100
Total SOx Emissions	100	100	100	100
Total VOC Emissions	100	100	100	100
Total waste (excluding reused and recycled)	100	100	100	100
COD in treated wastewater discharged	100	100	100	100
BOD in treated wastewater discharged	100	100	100	100
Total water withdrawn by sources	100	100	100	100
Wastewater discharge	100	100	100	100
Health & safety	100	100	100	100
Process safety events	30	50	100	100
Spills	100	100	100	100
CSR	91	94	88.3	91
HR	100	100	100	100

Operations Information Included in 2020 Sustainability Report

Region / Operation	Country	Business
Americas		
AlphaPet, Inc.	USA	•
Auriga Polymers Inc.	USA	• •
Avgol America Inc.	USA	•
FiberVisions Manufacturing Company	USA	•
FiberVisions Products Products, Inc.	USA	•
Indorama Ventures (Oxide & Glycols) LLC	USA	•
Indorama Ventures Fibras Brazil Ltda	Brazil	•
Indorama Ventures Olefins LLC	USA	•
Indorama Ventures Oxides International LLC	USA	•
Indorama Ventures Oxides LLC	USA	•
Indorama Ventures Polymers Mexico, S. de R.L. de C.V.	Mexico	• •
Indorama Ventures Polymeros S.A.	Brazil	•
Indorama Ventures Propylene Oxides LLC	USA	•
Indorama Ventures PTA Montreal LP	Canada	•
ndorama Ventures Solucoes Sustentaveis Brasil Ltda.	Brazil	•
ndorama Ventures Sustainable Solutions LLC	USA	•
Indorama Ventures Sustainable Solutions Fontana Inc.	USA	•
Indorama Ventures Xylenes and PTA LLC	USA	● ● ● NDC, PIA, PX
Performance Fibers Operations Mexico, S. de R.L. de C.V.	Mexico	• • • • • • • • • • • • • • • • • • •
PHP Fibers Inc.	USA	•
Sinterama do Brazil Ltda.	Brazil	•
StarPet Inc.	USA	•
UTT de México Technical Textiles S.A. de C.V.	Mexico	•
Winnsboro Fibres LLC	USA	•
	USA	
Europe	Russia	•
Avgol Limited Liability Company		
Beverage Plastics Limited	Northern Ireland	•
FiberVisions A/S	Denmark	•
Glanzstoff Bohemia s.r.o.	Czech Republic	•
Glanzstoff Industries S.R.L.	Italy	•
Glanzstoff Longlaville S.A.S.	France	•
Indorama Ventures Corlu PET Sanayi Anonim Sirketi	Turkey	•
Indorama Ventures Europe B.V.	The Netherlands	• •
Indorama Ventures Poland Sp. z.o.o.	Poland	•
Indorama Ventures Polymers Germany GmbH	Germany	•
Indorama Ventures Portugal PTA - Unipessoal, LDA.	Portugal	•
Indorama Ventures Quimica S.L.U.	Spain	• • PIA
Kordárna Plus a.s.	Czech Republic	•
Kordárna Plus a.s.	Slovakia	•
PHP Fibers GmbH	Germany	•
Schoeller GmbH & Co KG	Austria	•
Schoeller Kresice s.r.o.	Czech Republic	•
Sinterama Bulgaria EOOD	Bulgaria	•
Sinterama S.p.A.	Italy	•
Textilcord Steinfort S.A.*	Luxembourg	•
Trevira GmbH, Bobingen	Germany	•
Trevira GmbH, Guben	Germany	•
UAB Orion Global Pet	Lithuania	•
JTT Technische Textilien GmbH & Co.	Germany	•
Wellman France Recyclage S.A.S	France	•
Wellman International Limited, Ireland	Ireland	•
Wellman International Limited, The Netherlands	The Netherlands	•

ion - To be a world-class sustainable chemical company making great products for society

IVL's Sustainable

Region / Operation	Country	Business
Asia		
Asia Pet (Thailand) Limited	Thailand	•
Avgol India Private Limited	India	•
Avgol Limited (Bagan)	Israel	•
Avgol Limited (Dimona)	Israel	•
FiberVisions (China) Textiles Products Limited	China	•
Glanzstoff Industries (Qingdao) Co., Ltd.	China	•
Guangdong IVL PET Polymer Company Limited	China	•
Hubei Gold Dragon Nonwoven Fabrics Co. Ltd.**	China	•
Indorama Holdings Limited	Thailand	•
Indorama Petrochem Limited	Thailand	•
Indorama Petrochem Limited (2 nd Branch)	Thailand	•
Indorama Polyester Industries Public Company Limited, Nakhon Pathom	Thailand	• •
Indorama Polyester Industries Public Company Limited, Rayong	Thailand	• •
Indo Rama Synthetics (India) Limited	India	•
Indorama Ventures Oxides Ankleshwar Private Limited	India	•
Indorama Ventures Oxides Australia Pty Limited	Australia	•
Indorama Ventures Packaging (Myanmar) Limited	Myanmar	•
Indorama Ventures Packaging (Philippines) Corporation, Bacolod	The Philippines	•
Indorama Ventures Packaging (Philippines) Corporation, Batino	The Philippines	•
Indorama Ventures Packaging (Philippines) Corporation, Davao	The Philippines	•
Indorama Ventures Packaging (Philippines) Corporation, Meycauayan	The Philippines	•
Indorama Ventures Packaging (Philippines) Corporation, MOP	The Philippines	•
IVL Dhunseri Petrochem Industries Private Limited (Haldia)	India	•
IVL Dhunseri Petrochem Industries Private Limited (Panipat)	India	•
Performance Fibers (Kaiping) Company Limited	China	•
Performance Fibers (Kaiping) No.2 Company Limited	China	•
Performance Fibers (Kaiping) No.3 Company Limited	China	•
Petform (Thailand) Limited, Korat	Thailand	•
Petform (Thailand) Limited, Lopburi	Thailand	• •
Petform (Thailand) Limited, Pathumthani	Thailand	•
Petform (Thailand) Limited, Rayong	Thailand	•
PT Indorama Petrochemicals	Indonesia	•
PT Indorama Polychem Indonesia	Indonesia	•
PT Indorama Polypet Indonesia	Indonesia	•
PT Indorama Ventures Indonesia	Indonesia	• •
Sinterama Yarns (Dongguan) Co., Ltd.	China	•
TPT Petrochemicals Public Company Limited	Thailand	•
Africa		
Bevpak (Nigeria) Limited	Nigeria	•
Egyptian Indian Polyester Company S.A.E.	Egypt	•
Indorama PET (Nigeria) Limited	Nigeria	•
Indorama Ventures Packaging (Ghana) Limited	Ghana	•
Indorama Ventures Packaging (Nigeria) Limited	Nigeria	•
Medco Plast Co. for Packing & Packaging Systems (S.A.E.)	Egypt	•

Remark:

Feedstock	PTA	IOD	PET	Hygiene	Lifestyle	Mobility	Packaging	Recycling	Wool

Combined PET – Feedstock, PTA, PET, Packaging, Recycling **Business Verticals:**

Fibers – Fibers (Hygiene, Lifestyle and Mobility) and Wool Integrated Oxides and Derivatives – IOD

NDC Naphthalene Dicarboxylate PIA Purified Isopthalic Acid PX

Paraxylene

 $^{*}\,$ One of the five Glanzstoff sites, the other four are Glanzstoff Bohemia and Glanzstoff Industries S.R.L., Glanzstoff Industries (Qingdao) and Glanzstoff Longlaville S.A.S.

** One of the five Avgol sites, the other four are Avgol America Inc., Avgol India Private Limited, Avgol Limited Liability Company, Avgol Limited (Bagan) and Avgol Limited (Dimona)

Global Performance Data

	GRI Standards	Unit	2017	2018	2019	2020
rodu	rtion			l		
eneral	Total production (captive consumption)	Ton of production	10,004,534	11,338,992	12,780,005	15,551,4
Criciai	PET	Ton	3,648,922	4,211,040	5,167,714	5,356,4
	PTA	Ton	3,735,362	4,192,671	4,191,627	4,243,8
	Packaging	Ton	134,838	155,319	226,184	223,3
	Fibers	Ton	1,320,941	1,438,564	1,850,305	1,757,2
	Feedstock (PIA/PX/NDC)	Ton	1,057,123	1,236,703	880,183	793,1
	Wool	Ton	2,188	2,712	6,622	4,6
	Recycling Plants Production (flakes+in process reuse)	Ton	105,160	101,983	149,734	155,5
	IOD	Ton	-	-	307,634	3,017,2
even	ue					
eneral	Total revenues (including inter-company sales)	USD (million)	10,575	12,933	14,089	13,7
lateri			10,010	1-/	. ,,	,.
801-1	Total material used	Ton	10.656.101	11 410 542	12.050.127	15.010.5
301-1	Raw materials	ION	10,656,101	11,418,542	13,058,127	15,019,5
	- PTA	Ton	4,061,686	4,281,652	5,195,207	5,260,9
	- MEG	Ton	1,492,315	1,647,427	2,034,280	2,071,9
	- Paraxylene	Ton	2,452,829	2,755,828	2,751,180	2,785,3
	- IOD raw materials	Ton	2,432,029	2,7 33,020	2,731,180	1,532,
	- Acetic Acid	Ton	139,606	162,234	168,183	1,552,
	- Purified isophthalic acid	Ton	64,042	70,510	88,511	96,
	- PET	Ton	259,809	302,396	405,181	398,
	- PP	Ton	123,825	118,622	274,540	274,
	- PE	Ton	37,193	67,172	55,494	56,
	- HDPE	Ton	5,481	7,134	9,140	8,
	- Wool	Ton	2,521	2,600	5,096	3,
	- Cardboard packaging	Ton	39,556	3,516	57,745	5,
	- Partially oriented yarn (POY) + Textile grade chips	Ton	21,150	0	4,009	13,
	Bio-raw materials	-	,	-	,	-,
	- Bio-MEG	Ton	7,447	15,808	9,130	10,
	- Celluose	Ton	11,043	11,004	10,079	7,
	- PLA	Ton	2,383	1,088	2,023	3,
	Others	Ton	1,791,707	1,830,309	1,781,332	2,106,
301-2	Total recycled materials	Ton	143,507	141,242	206,996	230,
nergy						
02-1	Total energy consumption	GJ	55,070,650	59,984,718	73,452,756	104,724,
	• Fuel oil	GJ	89,531	109,772	308,901	431,
	Natural gas	GJ	23,905,980	28,089,267	31,777,505	64,265,
	• LPG	GJ	71,919	60,629	69,024	57,
	• Diesel	GJ	90,493	150,835	188,489	252,
	• Gasoline	GJ	31,971	30,422	28,782	41,
	• Fuel gas	GJ	31,676	7,709	-	,
	• Coal	GJ	13,921,799	14,143,189	23,190,958	20,796,
	• Other	GJ	27,371	101,404	66,495	80,
	Renewable energy consumption	GJ	1,348,403	1,324,546	1,086,515	1,051,
	Biomass	GJ	855,872	901,065	658,703	618,
	Biogas	GJ	492,531	423,481	427,812	433,
	Direct energy sold	GJ	(1,416,948)	(1,961,330)	(2,422,922)	(3,077,6
	Total Indirect energy consumption (electricity, cooling, steam	GJ	16,968,455	17,928,274	19,159,008	20,825,
	purchased from outside of IVL group)					
		MWh	4,713,460	4,980,076	5,321,947	5,784,
	- Electricity purchased from conventional sources	GJ	11,934,309	12,684,116	14,060,847	15,353,
	(e.g. natural gas, coal, nuclear, heating oil)	MWh	3,315,086	3,523,366	3,905,791	4,264,
	- Purchased steam	GJ	3,763,243	3,723,250	3,492,387	4,204,
	i arciluscu siculii	MWh	1,045,345	1,034,236	970,108	1,334,
	- Purchased heating	GJ	414,514	428,143	489,516	461,
	- ruicilaseu fleatifig	MWh	-			
	- Purchased cooling	GJ	115,143	118,929	135,977	128, 222,
	- Purchased cooling	MWh	371,063	300,998	292,655	
	Panawahla alactricity conserted and co		103,073	83,611	81,293	61,
	- Renewable electricity generated and consumed	GJ	6,237	6,072	11,964	23,
	- Renewable electricity purchased through certificate	MWh GJ	1,733	1,687	3,323	6,
			1,221,327	1,423,629	1,489,077	667,
	- Reflewable electricity purchased tillough certificate	MWh	339,257	395,453	413,633	185,

Key Achievements 2020

Group CEO Chief Strategy Officer Message

Message

Chief Sustainability Officer Message

IVL's Sustainable Value Creation for Stakeholders **Responsible and Effective** Governance

- Female

Driving Sustainable Growth

Towards **Carbon Neutrality** **Empowering Our People** and Communities

	GRI Standards	Unit	2017	2018	2019	2020
		MWh	117,091	115,896	110,053	118,90
	Total steam sold	GJ	257,933	165,745	221,703	215,10
		MWh	71,648	46,040	61,584	59,75
	Total indirect electricity sold	GJ	62,778	54,964	59,547	64,10
		MWh	17,438	15,268	16,541	17,80
302-3	Energy intensity	GJ/Ton of production	5.50	5.29	5.75	6.7
302-4	Energy saved due to conservation and efficiency improvement	GJ	614,892	416,617	756,216	435,64
Nater	Withdrawal and Consumption					
303-1	Total water withdrawn by sources	m³	53,552,616	60,285,763	65,222,820	82,504,76
	- Surface water	m³	32,036,781	34,920,909	35,480,047	51,035,45
	- Once through cooling water	m³	2,533,355	1,681,646	263,010	,,,,,,
	- Municipal water and water utilities	m³	13,630,142	18,229,684	21,826,915	18,123,0
	- Groundwater	m³	5,263,939	5,341,836	7,630,654	12,661,4
	- Rainwater	m ³	88,398	111,689	22,194	, ,
	Water intensity	m³/Ton of production	5.35	5.32	5.10	5.
Pauca	<u> </u>					
	d / Recycled Water					
303-3	Total volume of recycled/reused water	m³	4,699,568	5,292,534	5,255,856	5,786,1
	% of recycled/reused water	%	8.07	8.07	7.46	6.
missio	ons					
305-1	Direct GHG emissions of all sources owned or controlled by	tCO ₂ e	3,211,409	3,688,970	4,744,746	7,035,9
305-2	company (Scope 1 emissions) Indirect GHG emissions resulting from the generation of	tCO ₂ e	2,316,591	2,224,494	2,344,695	2,409,0
	electricity, heat, or steam (Scope 2 emissions)	_				
	Total GHG emissions (Scope 1 + Scope 2)	tCO ₂ e	5,528,000	5,913,464	7,089,441	9,445,0
305-4	Scope 1 GHG intensity	tCO ₂ e/Ton of production	0.321	0.325	0.371	0.4
	Scope 2 GHG intensity	tCO ₂ e/Ton of production	0.232	0.197	0.184	0.1
	Scope 1 + Scope 2 GHG intensity	tCO ₂ e/Ton of production	0.553	0.522	0.555	0.6
	"GHG intensity in tons of CO ₂ e per currency total revenue"	tCO ₂ e/USD (million)	522.74	457.24	503.19	685
	GHG Intensity in tons of CO ₂ e per full time equivalent (FTE) employees	tCO ₂ e/FTE	363.80	371.40	312.37	374
305-7	Total NO, emissions	Ton	2,559	2,879	4,659	4,9
303 /	Total SO ₂ emissions	Ton	1,518	1,970	4,993	4,6
	Total VOC emissions	Ton	2,078	4,642	2,123	3,2
	Total PM emissions	Ton	423	639	1,136	5,2
Vaste	water Discharge	1011	723	039	1,130	
	Total water discharge volume	3	22 222 020	22.650.202	20.012.422	
306-1						
1-006	3	m³ Ton	32,222,930	33,659,202	28,812,422	48,753,3
1-006	COD in treated wastewater discharged	Ton	1,542	2,357	1,693	12,5
JU0-1	COD in treated wastewater discharged BOD in treated wastewater discharged	Ton Ton	1,542 100	2,357 357	1,693 328	12, 1,
JU0-1	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged	Ton Ton Ton	1,542 100 295	2,357 357 478	1,693 328 532	12, 1, 1,
300-I	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged	Ton Ton Ton Ton	1,542 100 295 15.60	2,357 357 478 16.70	1,693 328 532 20.45	12, ¹ 1, ² 1, ⁴
300-I	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party	Ton Ton Ton Ton Ton	1,542 100 295 15.60 4,090	2,357 357 478 16.70 4,374	1,693 328 532 20.45 2,578	12,: 1,: 1,: 2,:
300-I	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party	Ton Ton Ton Ton Ton Ton Ton Ton	1,542 100 295 15.60 4,090 888	2,357 357 478 16.70 4,374 793	1,693 328 532 20.45 2,578 420	12, 1, 1, 2,
300-I	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party	Ton	1,542 100 295 15.60 4,090 888 421	2,357 357 478 16.70 4,374 793 302	1,693 328 532 20.45 2,578 420 146	12, 1, 1, 2,
	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party	Ton Ton Ton Ton Ton Ton Ton Ton	1,542 100 295 15.60 4,090 888	2,357 357 478 16.70 4,374 793	1,693 328 532 20.45 2,578 420	12, ¹ 1, ¹ 1, ¹ 2, ¹
	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party	Ton	1,542 100 295 15.60 4,090 888 421	2,357 357 478 16.70 4,374 793 302	1,693 328 532 20.45 2,578 420 146	12, ¹ 1, ¹ 1, ¹ 2, ¹
Solid V 306-2	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste	Ton	1,542 100 295 15.60 4,090 888 421 8.01	2,357 357 478 16.70 4,374 793 302 5.41	1,693 328 532 20.45 2,578 420 146 5.79	12,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Waste	Ton	1,542 100 295 15.60 4,090 888 421 8.01	2,357 357 478 16.70 4,374 793 302 5.41	1,693 328 532 20.45 2,578 420 146 5.79	12, 1, 1, 2, 7
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste	Ton	1,542 100 295 15.60 4,090 888 421 8.01	2,357 357 478 16.70 4,374 793 302 5.41	1,693 328 532 20.45 2,578 420 146 5.79	12,4 1,4 2,4 2,7 117, 39,8
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959	1,693 328 532 20.45 2,578 420 146 5.79	12,4 1,4 2,4 7 117, 39,6 2,4
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796	12,- 1,- 1,- 2,- 1 7 117,- 39,6
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery)	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542	12, 1,, 1,, 2,, 7 117, 39,6 2,, 52,
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0	12, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748 - 11,183 5,376 721	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188 - 9,616 7,349 306	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0 9,996 12,260 1,175	12, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748 - 11,183 5,376	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188 - 9,616 7,349	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0 9,996 12,260	12, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748 - 11,183 5,376 721	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188 - 9,616 7,349 306	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0 9,996 12,260 1,175	12, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748 - 11,183 5,376 721 110,151	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188 - 9,616 7,349 306 119,570	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0 9,996 12,260 1,175 243,104	12, 1, 1, 2, 117, 39, 2, 52, 12, 6, 2, 197, 65,
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748 - 11,183 5,376 721 110,151 5,810	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188 - 9,616 7,349 306 119,570 7,960	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0 9,996 12,260 1,175 243,104 120,151	12, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Reuse - Recycling	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748 - 11,183 5,376 721 110,151 5,810 36,616	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188 - 9,616 7,349 306 119,570 7,960 43,990	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0 9,996 12,260 1,175 243,104 120,151 43,423	12, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Recycling - Recycling - Recovery (including energy recovery)	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748 - 11,183 5,376 721 110,151 5,810 36,616 5,919	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188 - 9,616 7,349 306 119,570 7,960 43,990 11,959	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0 9,996 12,260 1,175 243,104 120,151 43,423 12,835	12, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Recovery (including energy recovery) - Composting - Recycling - Recycling - Recycling - Recovery (including energy recovery) - Composting	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748 - 11,183 5,376 721 110,151 5,810 36,616 5,919 5,911	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188 - 9,616 7,349 306 119,570 7,960 43,990 11,959 6,850	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0 9,996 12,260 1,175 243,104 120,151 43,423 12,835 11,235	12, 1, 1, 1, 2, 117, 39, 2, 52, 12, 6, 2, 197, 65, 50, 10,
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748 - 11,183 5,376 721 110,151 5,810 36,616 5,919 5,911 1,367	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188 - 9,616 7,349 306 119,570 7,960 43,990 11,959 6,850 1,080	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0 9,996 12,260 1,175 243,104 120,151 43,423 12,835 11,235 1,080	12, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill (General waste)	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748 - 11,183 5,376 721 110,151 5,810 36,616 5,919 5,911 1,367	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188 - 9,616 7,349 306 119,570 7,960 43,990 11,959 6,850 1,080 38,609	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0 9,996 12,260 1,175 243,104 120,151 43,423 12,835 11,235 1,080	12, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill (General waste) - Deepwell injection	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748 - 11,183 5,376 721 110,151 5,810 36,616 5,919 5,911 1,367 35,746	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188 - 9,616 7,349 306 119,570 7,960 43,990 11,959 6,850 1,080 38,609	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0 9,996 12,260 1,175 243,104 120,151 43,423 12,835 11,235 1,080 49,596 4,784	12,4 1,1 1,1 1,1 1,1 2,4 1,1 7,7 117,7 39,4 52,4 6,6 2,1 119,7,1 119,7 110,1 10,1 1
olid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill (General waste) - Deepwell injection - Others	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748 - 11,183 5,376 721 110,151 5,810 36,616 5,919 5,911 1,367 35,746 - 18,781	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188 - 9,616 7,349 306 119,570 7,960 43,990 11,959 6,850 1,080 38,609 9,122	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0 9,996 12,260 1,175 243,104 120,151 43,423 12,835 11,235 1,080 49,596	48,/53,: 12,: 1,: 1,: 2,8 5 117,: 39,8 2,5 52,: 12,6 6,4 2,5 10,2 12,8 53,8 2,6 220,8 93,9
Solid V 306-2	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill (General waste) - Deepwell injection - Others Total Reused, Recycled and Recovered Waste Total waste disposed (not Reused, Recycled or Recovered)	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748 11,183 5,376 721 110,151 5,810 36,616 5,919 5,911 1,367 35,746 18,781 85,066 79,086	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188 - 9,616 7,349 306 119,570 7,960 43,990 11,959 6,850 1,080 38,609 9,122 98,017 72,932	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0 9,996 12,260 1,175 243,104 120,151 43,423 12,835 11,235 1,080 49,596 4,784 227,321 90,127	12,4 1,1 1,1 1,1 1,1 2,4 17,7 39,6 52,4 12,9 6,6 50,1 10,0 11,0 12,4 53,6 53,6 53,6 53,6 53,6 53,6 53,6 53,6
iolid V	COD in treated wastewater discharged BOD in treated wastewater discharged TSS in treated wastewater discharged Oil and grease in treated wastewater discharged COD in untreated wastewater discharged to third party BOD in untreated wastewater discharged to third party TSS in untreated wastewater discharged to third party Oil and grease in treated wastewater discharged to third party Vaste Total hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill - Others Total non-hazardous waste - Reuse - Recycling - Recovery (including energy recovery) - Composting - Incineration - Landfill (General waste) - Deepwell injection - Others Total Reused, Recycled and Recovered Waste	Ton	1,542 100 295 15.60 4,090 888 421 8.01 54,001 30,248 4,725 1,748 - 11,183 5,376 721 110,151 5,810 36,616 5,919 5,911 1,367 35,746 - 18,781 85,066	2,357 357 478 16.70 4,374 793 302 5.41 51,379 28,959 2,960 2,188 9,616 7,349 306 119,570 7,960 43,990 11,959 6,850 1,080 38,609 9,122 98,017	1,693 328 532 20.45 2,578 420 146 5.79 74,344 43,574 4,796 2,542 0 9,996 12,260 1,175 243,104 120,151 43,423 12,835 11,235 1,080 49,596 4,784 227,321	12,4 1,3 1,4 2,8 5 5 117,7 39,8 2,5 52,4 12,9 6,4 2,7 197,6 55,5 10,2 12,8 53,6

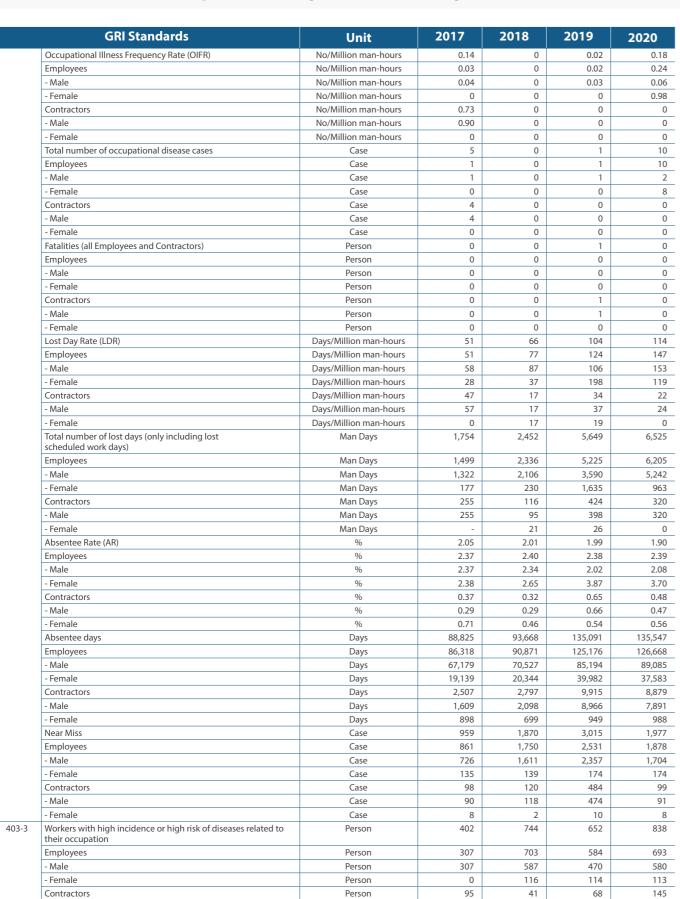
	GRI Standards	Unit	2017	2018	2019	2020
Spills						
306-3	Total significant spills	Case	42	18	20	25
		Ton	513	28	89	49
	- Hydrocarbon spills	Case	4	5	6	18
		Ton	7	13	6	33
	- Chemical spills	Case Ton	26 30	13 15	14 83	7 17
	- Other spills	Case	12	0	0	0
	Other spins	Ton	476	0	0	0
Process	Safety Events	ı	1			
	Tier 1					
	- No. of events	Case	5	8	24	18
	- Rate	Case/Million man-hours	0.48	0.43	0.44	0.32
	Tier 2					
	- No. of events	Case	3	4	14	13
	- Rate	Case/Million man-hours	0.29	0.21	0.26	0.23
Environ	mental Compliance					
307-1	ALL FINES: Monetary value of ALL fines for non-	USD	54,618	36,607	0	22,947
	compliance with environmental laws and regulations FINES OVER USD 10,000: Monetary value of significant fines over	USD	42,866	36,607	0	22,357
	USD 10,000 for non-compliance with		,	22,221	-	,_,
	environmental laws and regulations Total number of non-monetary sanctions for non-	Case	0	0	0	0
	compliance with environmental laws and regulations	Cusc	Ŭ	o	ŭ	· ·
	Total number of non-monetary sanctions for non-	Case	0	0	0	0
	compliance with environmental laws and regulations were incurred					
Employ		<u> </u>				
102-8	Total employees	Person	15,195	15,922	22.696	25,207
102-0	- Male	Person	11,844	12,524		19,790
	- Female	Person	3,351	3,398	4,947	5,417
	Total contractors	Person	2,115	3,234	6,904	6,475
	- Male	Person	1,704	2,730	6,137	5,661
	- Female	Person	411	504	767	814
Occupa	ational Health and Safety					
403-1	Total workforce represented in formal joint management - worker	Person	12,461	13,118	19,310	23,140
	health and safety committees Percentage of workforce represented in formal joint	%	82.01	82.39	01.42	91.80
	management - worker health and safety committees	90	02.01	62.39	91.43	91.00
403-2	Total Recordable Injury Rate (TRIR)	No/200,000 man-hours	1.19	1.29	1.45	0.91
	Employees	No/200,000 man-hours	1.21	1.41	1.59	0.99
	- Male	No/200,000 man-hours	1.41	1.52	1.60	1.02
	- Female	No/200,000 man-hours	0.50	0.98		0.86
	Contractors	No/200,000 man-hours	1.10	0.78	22,696 17,749 4,947 6,904 6,137 767 19,310 91.43 1.45	0.68
	- Male - Female	No/200,000 man-hours No/200,000 man-hours	1.35	0.87		0.66
	"Total Recordable Injuries	Case	206	241		259
	(not including first aid incidents)"	Cusc	200	211	331	237
	Employees	Case	176	214	335	209
	- Male	Case	160	184	270	174
	- Female	Case	16	30		35
	Contractors	Case	30	27		50
	- Male	Case	30	25	52	44
	- Female	Case	0	2	7	6
	Lost Time Injury Frequency Rate (LTIFR)	No/Million man-hours No/Million man-hours	3.61 3.98	3.71 4.16	4.18 5.07	2.38
	Employees - Male	No/Million man-hours	4.40	4.10	4.77	2.93
	- Female	No/Million man-hours	2.49	2.93	6.30	3.45
	Contractors	No/Million man-hours	1.65	1.73	1.14	0.81
	- Male	No/Million man-hours	2.03	1.92	1.10	0.90
	- Female	No/Million man-hours	0	0.82	1.43	0.50
	Total Lost Time Injuries	Case	125	138	227	136
	Employees	Case	116	126	213	124
	- Male	Case	100	108	161	96
	- Female	Case	16	18	52	28
	Contractors	Case	9	12	14	12
	- Male	Case	9	11	12	12
	- Female	Case	0	1	2	0

Case

0

Indorama Ventures PCL.

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Person

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Water Withdrawal by Source

	GRI Standards	Unit	2020
Total v	water withdrawal by source		
303-3	Total water withdrawal by source (with + without stress)	m³	82,504,769
	Surface water/rain water (with + without water stress)	m³	51,035,459
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	47,395,317
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	3,640,142
	Ground water (with + without water Stress)	m³	12,661,456
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	12,660,117
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	1,339
	Seawater (total) (with + without water stress)	m³	0
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	0
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	0
	Produced water (total) (with + without water stress)	m³	684,830
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	627,250
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	57,580
	Third-party water (with + without water stress)	m³	18,123,024
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	18,057,981
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	65,043
	Total water withdrawal by source (with water stress)	m³	34,673,306
	Surface water/rain water (with water stress)	m³	19,608,256
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	19,608,256
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	0
	Ground water (with water stress)	m³	3,747,740
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	3,747,740
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	0
	Seawater (total) (with water stress)	m³	0
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	0
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	0
	Produced water (total) (with water stress)	m³	81,039
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	34,370
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	46,669
	Third-party water (with water stress)	m³	11,236,272
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	11,171,229
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	65,043
	Total water withdrawal by source (without water stress)	m³	47,831,463
	Surface water (without water stress)	m ³	31,427,203
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	27,787,062
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	3,640,142
	Ground water (without water stress)	m ³	8,913,717
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	8,912,377
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	1,339
	Seawater (total) (without water stress)	m ³	0
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	0
	Other water (>1,000 mg/L Total Dissolved Solids)	m ³	0
	Produced water (total) (without water stress)	m³	603,791
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	592,880
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	10,911
	Third-party water (without water stress)	m³	6,886,752
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	6,886,752
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	0,880,732
	Other water (>1,000 mg/L local Dissolved Solids)	111	0

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Male

- Female

Waste Water Discharge

	GRI Standards	Unit	2020
Waste v	water discharge		
303-4	Total waste water discharge (with + without stress) (source wise)	m³	48,753,355
	Total surface water	m³	26,649,830
	Total ground water	m³	65,486
	Total sea water	m³	3,220,926
	Total third party water / municipality / common waste water treatment plant	m³	18,722,602
	Total third party water sent for used for other organization	m³	94,511
	Waste water Discharge (with water stress)	m³	25,906,869
	Surface water	m³	14,429,383
	Ground water	m³	47,719
	Sea water	m³	1,663,141
	Third party water / municipality / common waste water treatment plant	m³	9,763,971
	Third party water sent for used for other organization	m³	2,654
	Waste water discharge (without water stress)	m³	22,846,486
	Surface water	m³	12,220,446
	Ground water	m³	17,767
	Sea water	m³	1,557,785
	Third party water / municipality / common waste water treatment plant	m³	8,958,631
	Third party water sent for used for other organization	m³	91,857
	Total waste water discharge quality wise by fresh water and other water (with + without stress)	m³	48,753,355
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	39,684,310
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	9,069,045
	Waste water discharge with water stress	m³	25,906,869
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	24,694,216
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	1,212,652
	Waste water discharge without water stress	m³	22,846,487
	Freshwater (≤1,000 mg/L Total Dissolved Solids)	m³	14,990,094
	Other water (>1,000 mg/L Total Dissolved Solids)	m³	7,856,393

Global Human Resources Data

	GRI Standards	Unit	2017	2018	2019	2020
Emplo	yees					
405-1	Total employees by gender	Person	15,195	15,922	22,696	25,207
	- Male	Person	11,844	12,524	17,749	19,790
	- Female	Person	3,351	3,398	4,947	5,417
	Total Permanent employees	Person	14,525	15,221	22,027	23,134
	- Male	Person	11,299	11,944	17,225	18,158
	- Female	Person	3,226	3,277	4,802	4,976
	Total Temporary employees	Person	670	701	669	2,073
	- Male	Person	545	580	524	1,632
	- Female	Person	125	121	145	441
	Total employees by Level*	Person	14,525	15,221	22,027	23,134
	Executive Management	Person	94	101	109	115
	- Male	Person	83	88	95	100
	- Female	Person	11	13	14	15
	Senior Management	Person	388	414	577	606
	- Male	Person	301	320	468	492
	- Female	Person	87	94	109	114
	Middle Management	Person	1,485	1,619	2,341	2,458
	- Male	Person	1,185	1,281	1,820	1,911
	- Female	Person	300	338	521	547
	Junior Management	Person	6,106	5,831	8,495	8,922
	- Male	Person	4,246	3,521	5,097	5,353
	- Female	Person	1,860	2,310	3,398	3,569
	Non Management*	Person	6,452	7,256	10,505	11,033
	Male	Person	5,484	6,734	9,745	10,235
	Female	Person	968	522	760	798
	Total employees by Age*	Person	14,525	15,221	22,027	23,134
	Over 50 years old	Person	2,488	3,328	5,033	6,267
	- Male	Person	2,118	2,742	4,027	5,132
	- Female	Person	370	586	1,006	1,135
	30-50 years old	Person	8,542	9,024	13,199	13,265
	- Male	Person	6,412	6,896	10,191	10,194
	- Female	Person	2,130	2,128	3,008	3,071
	Below 30 years old	Person	3,495	2,869	3,795	3,602
	- Male	Person	2,769	2,306	3,007	2,832
	- Female	Person	726	563	788	770
New e	mployee hires*					
401-1	Total new employees	Person	1,732	1,758	2,042	1,822
	- Male	Person	1,274	1,216	1,464	1,259
	- Female	Person	458	542	578	563
Emplo	yee Turnover*		122			
		T				
401-1	Total employee turnover	Person	1,556	1,363	2,093	1,964
	- Male	Person	1,203	1,021	1,502	1,413
	- Female	Person	353	342	591	551
	Total employee turnover rate	Turnover rate (%)	10.71	8.95	9.50	8.49
	Voluntary employees turnover	Person	1,039	1,137	1,695	1,461
	Voluntary employees turnover rate	Turnover rate (%)	7.15	7.47	7.70	6.32
	Number of employees laid off	Person	113	81	0	93
	Number of negotiations	Person	35	36	0	58
Parent	al Leave*					
401-3	Number of employees who took parental leave	Person	368	768	863	615
	- Male	Person	264	543	601	328
	- Female	Person	104	225	262	287
	Number of employees who returned to work after taking parental leave	Person	345	639	726	554
	- Male	Person	257	494	559	321
	- Female	Person	88	145	167	233
	Retention to work (after parental leave and still employed for the next 12 months)	Person	325	603	693	468
	- Male	Person	239	465	532	242
	- Female	Person	86	138	161	226

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Key Achievements 2020

Group CEO Message

Chief Strategy Officer Message

Chief Sustainability Officer Message

IVL's Sustainable **Value Creation for Stakeholders** **Responsible and Effective** Governance

Driving Sustainable Growth

Towards **Carbon Neutrality** **Empowering Our People** and Communities

	GRI Standards	Unit	2017	2018	2019	2020
Emplo	yees training*		1		'	
404-1	Total training hours provided to employee	Hours	329,779	463,175	728,206	429,88
1011	- Male	Hours	247,584	352,338	552,725	335,31
	- Female	Hours	82,195	110,837	175,481	94,57
	- Mandatory course	Hours	-	-	-	214,30
	- Non-mandatory course	Hours	-	-	-	215,58
	Total average training hours	Hours/Employee	22.70	30.43	33.06	18.5
	- Male	Hours/Employee	21.91	29.50	32.09	18.4
	- Female	Hours/Employee	25.48	33.82	36.54	19.0
	Total amount spent	USD	-	-	-	2,070,05
	- Mandatory course	USD	-	-	-	625,60
	- Non-mandatory course	USD	-	-	-	1,444,44
	- Region - Asia	USD	-	-	-	870,15
	- Region - EMEA	USD	-	-	-	757,34
	- Region - Americas	USD	-	-	-	442,54
Perfori	mance Review*			,	'	
404-3	Total employees receiving regular performance reviews	Person	14,525	15,221	22,027	15,64
	Total employees receiving career development reviews	Person	14,242	14,237	21,281	6,50
Domiin	neration ratio of women to men		,2 .2	,237	2.,20.	0,5 (
		D. //	0.050	0.050	0.050	
405-2	Strategic (base salary only)	Ratio	0.960	0.960	0.962	0.96
	Managerial (base salary only)	Ratio	0.944	0.945	0.947	0.94
	Managerial (base salary + other cash incentives)	Ratio	0.940	0.949	0.950	0.95
	Supervisory and Operational	Ratio	0.929	0.930	0.931	0.93
Employ	yee Engagement Score**					
	Employee satisfaction score	%	73.60	74.91	74.91	73.8
	- Male	%	73.59	74.98	74.98	74.5
	- Female	%	79.80	80.84	80.84	77.4
	Data coverage of employee satisfaction survey	%	93.75	93.43	93.43	82.8
Collect	tive Bargaining					
102-41	Total employees covered by collective bargaining agreements	Person	7,748	7,810	11,337	9,57
	Percentage of total employees covered by collective bargaining agreements	%	50.99	51.31	51.47	41.4
	Number of consultations/negotiations with trade unions over organizational changes [unit]	Number	94	334	262	10
Humar	n Rights Integration					
412-2	"Total number of hours of employees training on human rights policies or procedures concerning aspects of human rights that are relevant to operations"	Hours	14,256	17,210	20,799	11,04
	"Total number of employees trained in human rights policies or procedures concerning aspects of human rights that are relevant to operations"	Person	11,403	12,819	19,362	9,36
	"Percentage of employees trained in human rights policies or procedures concerning aspects of human rights that are relevant to operations"	% of total employees	75.0	80.5	85.3	37
Non-di	iscrimination					
406-1	Total number of incidents of discrimination and corrective actions taken	Case	4	0	0	
	Number of incidents of discrimination and corrective actions taken regarding employees	Case	3	0	0	
	Number of incidents of discrimination and corrective actions taken to all excluding employee	Case	1	0	0	

	GRI Standards	Unit	2017	2018	2019	2020
Rights	of Indigenous People		'	'	'	
411-1	Incidents of violations involving rights of indigenous people	Case	0	0	0	0
Huma	n Rights Assessment					
412-1	Total number of operations	Number	83	91	108	123
	Total number of operations that have been subject to human rights reviews or impact assessments	Number	83	91	108	123
	Percentage of operations that have been subject to human rights reviews or impact assessments [unit]	%	100	100	100	100
Huma	n Rights Grievances					
103-2	Total number of grievances concerning human rights through formal grievance process	Case	0	0	0	8
	Number of grievances about human rights (related to employees) through formal grievance process	Case	0	0	0	7
	Number of grievance about human rights (not related to employees) through formal grievance process	Case	0	0	0	0
	Total number of human rights grievances addressed in this reporting period	Case	0	0	0	8
	Number of human rights grievances (related to employees) addressed during the reporting period	Case	0	0	0	7
	Number of human rights grievances (not related to employees) addressed during the reporting period	Case	0	0	0	0
	Total number of human rights grievances filed in the previous reporting period that resolved during the reporting period	Case	0	0	0	0
	Number of human rights grievances (related to employees) filed in previous reporting period that were resolved during the reporting period	Case	0	0	0	1
	Number of human rights grievances (not related to employees) filed in previous reporting period resolved during the reporting period	Case	0	0	0	0
Labor	Practice Grievance					
103-2	Total number of grievances about for labor practices filed through formal the grievance mechanism	Case	26	27	24	63
	Total number of grievances about labor practices addressed during the reporting period	Case	16	25	18	80
	Total number of grievances about labor practices resolved during the reporting period	Case	19	18	18	75
	Total number of grievances about labor practices filed prior to reporting period that were resolved during the reporting period	Case	15	21	22	43

^{*} Does not include temporary manpower. Temporary manpower is contingent manpower hired through an agency. Appropriate compliance training on Human Rights, Health & Safety has always been given to temporary manpower

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^{** 2017 - 2020} Restatement: Change to favourability score (Actively Engaged) is in line with best practices as it facilitates interpretability, targeted analysis leading to actionable insights and improvement actions

Global CSR Data

GRI Standards	Unit	2017	2018	2019	2020
ocal Community Engagement			'	'	
Percentage of operations with implemented local community engagement, impact assessments, and development programs	%	89	67	88	91
Total number of operations with any of the below local community engagement, impact assessments and developed programs (e.g. if site A has SIA and EIA, and site B has EIA the total number of sites with programs is 2)	Number	15	29	32	46
Number of operation with implemented social impact assessment including gender assessment	Number	11	10	9	14
Number of operation with implemented environmental impact assessment	Number	20	21	21	42
Number of operation with implemented public disclosure of results of environmental and social impact assessment	Number	13	12	13	27
Number of operation with implemented local community development programs	Number	17	18	18	25
Number of operation with implemented stakeholder engagement plans	Number	14	13	12	21
Number of operation with implemented broad base local community consultation committees and processes	Number	9	10	7	15
Number of operation with implemented work councils, occupational health and safety committees and other employee representation bodies to deal with impacts	Number	20	21	23	42
Number of operation with implemented formal local community grievance process	Number	12	3	7	18
ocial Grievances					
Number of grievances regarding society received through formal grievance process	Number	1	1	1	1
Total number of societal grievances addressed during this reporting period	Number	0	0	0	1
Total number of societal grievances resolved during this reporting period	Number	0	0	0	1
Total number of societal grievances resolved in the previous reporting period	Number	4	2	1	C
otal Philanthropic Activities					
Total philanthropic activities	%	100	100	100	100
Charitable donations	USD	888,367	970,856	350,980	449,703
Community investments	USD	645,634	971,420	715,351	451,890
Commercial Initiatives in the community	USD	325,003	406,629	730,397	188,583
Philanthropic Contributions		'	'		
Total cash contributions	USD	1,749,830	1,771,435	1,796,730	1,090,176
Time: Estimate employee costs	USD	1,918,393	1,007,502	1,142,800	696,748
Time: Employee volunteering during paid working hours	Hour	103,681	58,640	60,960	33,607
Total in-kind giving	USD	93,160	122,914	153,140	250,528
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