ENVIRONMENTAL INDICATORS

GEOPARK

	Environmental Indicators	Unit	2018	2019	2020	2021	Highlights 2021
MSA	**Penalties or fines for Environmental Non-compliance**	**Quantity**	**0**	**0**	**0**	**1**	An environmental fine materialized in Brazil from a process derived from previous years
Water Withdrawal	**Total Water withdrawal (Corporate)**	**m3**	**254.513,00**	**295.475,23**	**270.615,08**	**326.934,00**	
	Fresh surface water	**m3**	16.151	30.430	40.295	29.578	**Zero** withdrawal of Surface fresh water in Permanent operations in Colombia.
	Lateral borrow areas	**m3**	48.333	22.232	28.807	21.405	We maintain our goal of eliminating the withdrawal of Surface fresh water in all our permanent operations by 2025
	fresh ground-water /wells	**m3**	190.029	242.253	201.093	275.951	
	Purchase from third parties	**m3**	0	560,23	420,08	0	
	Water withdrawal (Corporate) - without lateral borrow areas	**m3**	**206.180,00**	**273.243,23**	**241.808,08**	**305.529,00**	
	% water withdrawal variation - Corporate	**%**	**N/A**	**16,09%**	**-8,41%**	**20,81%**	Increase in water withdrawal vs. 2020, due to an increase in wells drilled and the reduction of the annual production.
	Water withdrawal intensity - Corporate	**l/boe**	**11,15**	**11,18**	**10,58**	**14,35**	
Wastewater management	**Reused/recycled within the operation or for a third party**	**m3**	**51.455**	**17.849**	**9.259**	**0**	In 2021, no reuse of water was carried out; however we maintain the goal of increasing the % of reused / recirculated water by 2025 compared to 2020.
	Percentage of withdrawn water which is reused	**%**	**20%**	**6%**	**3%**	**0%**	
	Total water discharge	**m3**	**Not Reported**	**10.978.255**	**10.753.913**	**14.837.908**	
	Discharges into surface water bodies	**m3**	Not Reported	0	0	0	**Zero** discharges in surface water bodies.
	Ground discharges	**m3**	Not Reported	0	0	1037	
	Delivered to third parties	**m3**	Not Reported	51.433	23.575	128.669,5	
	Disposal injection	**m3**	Not Reported	10.926.822	10.730.338	14.708.201,8	In 2021 re-injected water for secondary recovery was not considered.
Water -stress	% of Operations in water-stressed Areas	**%**	Not Reported	Not Reported	Not Reported	0%	
	% of water ewithdrawal inwater- stressed areas	**%**	Not Reported	Not Reported	Not Reported	0%	**We do not have any operation within water-stressed areas** This analysis was carried out based on the information from the EIAs of the company's projects and the available national water-stressed indices.
	# of Projects to maintain/improve water availability for neighboring communities within water-stressed areas	**#**	Not Reported	Not Reported	Not Reported	NA	
Spills	**Annual target**	**#**	**2,0**	**1,8**	**1,34**	**1,1**	
	Oil spilled barrels per million barrels produced	**bbl/MM BOP**	**1,13**	**1,08**	**0,7**	0,05	**0.05** Barrels spilled per 1 million barrels produced.
	# of significant environmental Incidents (>=1 bbl of oil non content)	**#**	1	4	2	1	2021 result below the reference target
	# of oil spilled barrels in significant incidents	**bbl**	3,00	28,8	17,00	1,00	

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GHG emissions Corporate	**Corporate GHG Emissions Inventory**		**TCO2e**	**Not Reported**	**Not Reported**	**7.513.764**	**6.205.882,7**	**2020** Baseline year for the corporate Inventory (Recalculated) 2018 and 2019 inventory only includes Llanos 34 (Colombia) **19.57 KgCO2e /BOE** Emissions Intensity Index (Scope 1 and 2). The increase in 2021 is due to a significant increase in the water cut in Ll34 requiring more energy for the extraction of the total fluid and the reinjection of the produced water.
		Scope 1	**TCO2e**	Not Reported	Not Reported	377.172,6	445.617,9	
		Scope 2	**TCO2e**	Not Reported	Not Reported	662,1	452,1	
		Scope 3	**TCO2e**	Not Reported	Not Reported	7.135.929	5.759.813	
	Total Scope 1 and 2 Emissions		**TCO2e**	Not Reported	Not Reported	377.835	446.070	
	GeoPark Emissions Intensity – Scope 1 and 2		**kg CO2e/BOE**	Not Reported	Not Reported	**14,77**	**19,57**	
	Intensity of emissions variation (scope 1 and 2) Vs Baseline year		**%**				**32%**	
GHG emissions Llanos 34 block	**Llanos 34 GHG Emissions Inventory**		**TCO2e**	**261.652**	**333.801**	**5.923.160**	**4.932.992**	Since 2017, GeoPark has carried out the GHG Inventory for the Llanos 34 asset, which represents more than 90% of the company's total production. In 2020, the inventory was expanded at the Corporate level, including assets in production operated in Argentina and Chile. (Baseline year recalculation).
		Scope 1	**TCO2e**	251.661	323.422	292.518	355.671	
		Scope 2	**TCO2e**	14,89	22,89	0	0	
		Scope 3	**TCO2e**	9.975	10.356	5.630.642	4.577.321	
	Llanos 34 block Emissions Intensity – Scope 1 and 2 (kg CO2e/BOE)		**kg CO2e/BOE**	**12,79**	**13,05**	**12,95**	**17,40**	
Energy - Corporate	**Total Energy Consumed**		**MWh**	**Not Reported**	**Not Reported**	**1.332.451,55**	**1.686.991,79**	**42% Increase** in energy intensity in terms of kWh/boe. The increase is due to a significant increase in the water cut in Lla34, requiring more energy for the extraction of the total fluid and the reinjection of water, which means a higher amount of fuel used to operate the lifting systems.
		Non-renewable	**MWh**	Not Reported	Not Reported	1.330.932	1.685.862	
		Contracted	**MWh**	Not Reported	Not Reported	1.519	1.129	
		Renewable	**MWh**	Not Reported	Not Reported	0	0	
	Energy intensity		**kWh/boe**	Not Reported	Not Reported	**52,10**	**74,02**	
	Energy intensity variation		**%**				**42%**	
Other Emissions	**NOx emissions**		**Ton**	Not Reported	Not Reported	Not Reported	26,66	
	SOx emissions		**Ton**	Not Reported	Not Reported	Not Reported	205,45	
	CH4 emissions		**Ton**	Not Reported	Not Reported	2.919	2605,4	
Biodiversity	# of Blocks overlapping with Protected Areas / # Total Blocks in production		**#**	Not Reported	Not Reported	1 / 6	1/ 6	Colombia - LL 34 licensed block with an area of 33,253 ha, overlaps with 4.74 hectares of the Integrated Natural Resources Management District of La Mata de La Urama (Casanare). In Chile, Fell Block in production is close to a natural protected area, with no activity within the areas
	Block area overlapped with protected areas		**ha**	Not Reported	Not Reported	4,74	4,74	
	Total licended production blocks area overlapping with protected areas		**ha**	Not Reported	Not Reported	33.253	33.253	
	# of projects in production that are located nearby protected areas and priority conservation sites		**#**	Not Reported	Not Reported	1 / 6	1 / 6	
Waste management	**Hazardous waste**	Recycled	**Ton**	853	409,63	3,08	2,3	During 2021, operational activities such as drilling were considerably higher than in 2020, in addition, in Platanillo the dismantling of old pools that the field had for water treatment took place. The decrease in hazardous waste reported in m3 is due to the fact that water-based cuts were no longer reported as hazardous. (Colombia Nov. 2021 Guide of the Min. of the Environment).
		Landfill	**Ton**	0	0	0	0	
		Security cells / Incineration/ landfarming	**Ton**	294,24	591,24	396,13	2.240,59	
		Total Hazardous waste	**Ton**	**1.147,24**	**1.000,87**	**399,21**	**2.242,89**	
		Total Hazardous waste	**m3**	**12.876,70**	**35.547,10**	**23.559,70**	**40**	
	Non-Hazardous waste	Recycled	**Ton**	86,89	74,35	309,41	76,01	75% reduction in recyclables due to the fact that in 2021 there was no scrap evacuation in Llanos 34 as it happened in 2020. The increase in unusable waste is due to the increase in activities. In addition, the report in m3, considers the water-based cuts with their new classification.
		Landfill	**Ton**	1.062,75	1.034,26	847,6	992,86	
		Total Non-Hazardous waste	**Ton**	**1.149,64**	**1.108,61**	**1.157,01**	**1.068,87**	
		Total Non-Hazardous waste	**m3**	**93**	**0**	**0**	**41.554,00**	