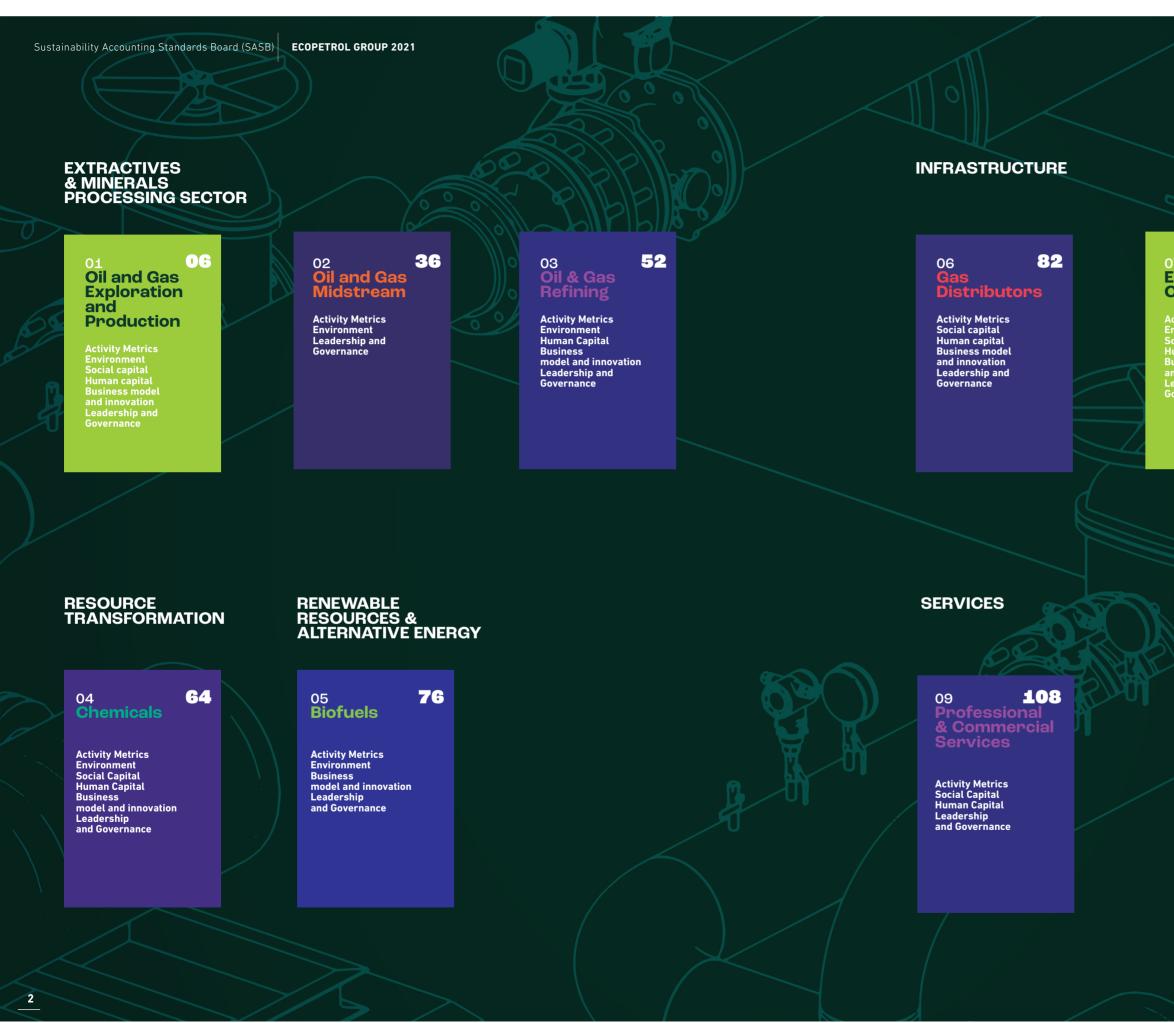
SUSTAINABILITY ACCOUNTING STANDARDS BOARD (SASB) METRICS REPORT





07 32 Electric Companies

Activity Metrics Environment Social capital Human capital Business model and innovation Leadership and Governance

08 **102** Engineering & Construction Services

Activity Metrics Environment Social capital Human capital Business model and innovation Leadership and Governance

MESSAGE FROM THE CEO OF **ECOPETROL GROUP**

Directors approved its 2040 Strategy "Energy that Transforms", which was shared with the market in February of 2022. The new strategy, covers for the first time a period spanning over ten years, integrating the fundamental pillars of the 2020 strategy and incorporating applications of the energy transition roadmap, the six principles of the Cultural Declaration, our higher purposes, and Ecopetrol's expected long-term portfolio.

The strategy is comprised of four (4) strategic pillars which reflect our vision for the next two (2) decades: i) Grow with Energy Transition; ii) Generate Value through TESG; iii) Cutting-edge knowledge; iv) Competitive Returns.

Through this strategy, Ecopetrol Group aims to continue to grow and competitively generate value, while considering the requirements and opportunities posed by the current situation and the energy transition scenario. This will be achieved by maximizing oil business value and competitiveness, as well as ensuring portfolio diversification, and maintaining our commitment to TESG and decarbonization.

The 2040 Strategy builds on our 2021 operating, financial and industrial safety results. We continue on the path towards reactivation, thanks to our ability to generate sustainable

value and respond in an agile and timely manner to current conditions. The committed and steadfast labor of the individuals who collaborate with Ecopetrol allows us to report exceptional financial results: we closed the year with a net profit of COP 16.7 trillion. a consolidated income of COP 91.7 trillion and an EBITDA of COP 42 trillion (EBITDA margin of 45.7%). Additionally, we achieved the highest reserves replacement ratio of the past 12 years (200%), and by yearend 2021 our hydrocarbon reserves reached 2,002 million barrels of oil equivalent (mboe). Consequently, these results allowed us to generate value for all of our stakeholders and contribute to the well-being of all Colombians. During the first guarter of 2022 we obtained the best quarterly result in the history of the Company: revenue, net income attributable to Ecopetrol shareholders and EBITDA, amounted to COP 32.5 trillion, COP 6.6 trillion and COP 15.9 trillion, respectively.

In 2021, we took on the challenge of consolidating Ecopetrol as the leading energy company in the Americas, while simultaneously remaining strong in our traditional business and remaining at the forefront of the energy transition to support our efforts to address climate change.

The purchase of 51.4% of the shares of Interconexión Eléctrica

S.A. ESP (ISA) for COP 14.2 trillion represented the most relevant inorganic acquisition by the Ecopetrol Group in its 70-year history. This transaction symbolizes the junction of two (2) successful paths taken by ISA and Ecopetrol to strengthen both companies, as well as to grow and exercise a leading role in the energy market, both in Colombia and the region as a whole, solidifying the path towards electrification with low-emission activities and making significant contributions towards decarbonization.

In line with its interest in moving forward from the perspective of sustainable management, Ecopetrol Group has continued to strengthen its corporate responsibility and ESG reporting processes to address the different needs for information and expectations of its stakeholders. Therefore, for the second consecutive year, it presents its Sustainability Accounting Standards Board (SASB) report following the parameters defined by the aforementioned organization, whereby it can share with its investors its information classified under these metrics.

As a result of the above, the scope of this report is broader than that of 2020, encompassing 26 companies of the Ecopetrol Group and accounting for the sustainable management approach of multiple

Group companies in the Upstream, Midstream, and Downstream segments, as well as in ISA's core business lines which are energy transmission and toll road concessions. The aforementioned is supported by the contents of Ecopetrol S.A.'s Integrated Sustainable Management Report and other disclosure mechanisms for the Ecopetrol Group.

Additionally, this report also covers more of the metrics reported for 2020. including 89% of the SASB metrics for the Mineral Extraction and Processing Sector in the Upstream crude oil and gas segment, 100% in the Midstream and 87% in Downstream segments; 100% of the metrics for the Resource Transformation sector in the Chemical Substances standard: 82% of the metrics for the Renewable Resources and Alternative Energies sector in the Biofuels standard: 100% in the Infrastructure sector in the Gas Distributors. Electric Utilities and Engineering and Construction Services standards: and 100% in the Services sector in the Professional and Commercial Services standard.

The progression in Ecopetrol's information disclosure is evidence of the Group's commitment to transparency, a core element of our corporate responsibility strategy. The expansion of the number of

Felipe Bayón

metrics reported, as well as in the scope of this report, are proof of this commitment. Ecopetrol continues to manage its material issues in line with the proposals set out in the framework of its 2040 Strategy "Energy that Transforms".

Chief Executive Officer

EXTRACTIVES & MINERALS PROCESSING SECTOR

OIL AND GAS EXPLORATION AND PRODUCTION

ACTIVITY METRICS

Code	EM-EF
Accounting Metric	Produ
Unit of measure	Thousa

	2021			
Accounting Metric	(1)	(2)	(3)	(4)
Unit of measure ¹	Mbbl/day	MMscf/day ²	Mbbl/day	MMscf/day
Ecopetrol S.A.	485,91	601,14	-	-
Hocol Petroleum Limited	18,1	110,5	-	-
Ecopetrol Permian LLC	13,48	14,52	3,21 ³	-
Ecopetrol America LLC	9,45	8,33	-	-
Ecopetrol Óleo e Gas do Brasil ⁴		Not a	ipply	

Accounting Metric
Unit of measure ¹
Ecopetrol S.A.

Hocol Petroleum Limited

¹ For 2020, the figures are reported in thousand barrels oil equivalent as it is the most widely used unit of measurement for the oil and gas sector.













P-000.A

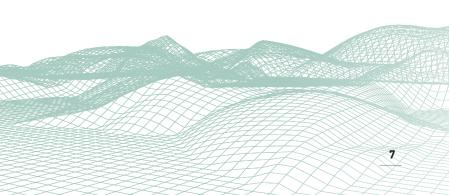
uction of: (1) oil, (2) natural gas, (3) synthetic oil, and (4) synthetic gas sand barrels per day (Mbbl/day); Million standard cubic feet per day (MMscf/day)

¹ Corresponds to the share of production that Ecopetrol and its subsidiaries have in each field, before royalties and/or any discounts.

² Million standard cubic feet per day (MMscf) is based on the energy released from the combustion of a barrel of oil. On average, in Colombia, 1 bbl is

 A mittor standard cubic feet per day (MNsc) is based on the energy refeased from the combustion of a barret of bit. On average, in Colombia, 1 bbt is taken as energetically equivalent to 5.7Mscf of natural gas.
 3 The synthetic oil reported corresponds to liquefied natural gas (LNG).
 4 Currently, Ecopetrol's subsidiary, Ecopetrol Óleo e Gás do Brasil Ltda., is a non-operating partner in five (5) exploratory assets in Brazil, represented by the following blocks: (i) Ceará - CE- M-715 (Ceará Basin), (ii) Saturno (Santos pre-salt basin) (iii) Pau Brasil (Santos pre-salt basin) and (iv and v): BM-S-54 and Sul de Gato do Mato (Gato do Mato project), assets that are currently in the evaluation stage.

	202	0	
(1)	(2)	(3)	(4)
Mbbl/day	MMscf/day	kbped	kbped
516	694,26	-	-
20,2	87,78	-	-



Accounting motric

Code	EM-EP-000.B
Accounting Metric	Number of offshore sites
Unit of measure	Number

2021

2021

of offshore sites
of offshore siles
2
2
-
3
-
-

¹ The fields correspond to Chuchupa and Ballena where Ecopetrol S.A. has 57% stake while Hocol S.A. holds 43% ² Marco Polo platform (GC-608) - operated by Occidental, processing K2 production (Occidental) with 20.8% EA working interest

Petronious platform (VK-786) - operated by Chevron, processing Dalmatian production (Murphy) with 30% EA working interest Gulfstar-1 platform (MC-724) - operated by Hess, processing Esox production (Hess) with 21.43% EA working interest and Gunflint production (QuarterNorth Energy) with 31.5% EA working interest

^a Ecopetrol Óleo e Gás do Brasil Ltda. ("Ecopetrol Brasil") has currently 4 (four) offshore assets (as Non Operator) located in Santos Basin, Brazil. All assets are under a pre operational/exploration phase, as follows: Pau Brasil: BP as the Operator. Asset under exploration phase until 2025. Planning and preparing well drilling for 2023;

Saturno: Shell as the Operator. Asset under exploration phase until 2026. Drilled well in 2020 (dry hole); Under review of the remaining prospectivity of the area for future decisions

Gato do Mato Blocks (BMS- 54 and Sul de Gato do Mato): Shell as the Operator. Both blocks are under a Joint Appraisal Plan (Exploration Phase); Currently, development studies for the Declaration of Commerciality (estimated for oct/2022). Ceará: PetroRio in the capacity as Operator for the first exploration period, which will take place in June 2022, and internal decision to return the block

approved in 2021.

	2020
Accounting metric	
Unit of measure ¹	Number of offshore sites
Ecopetrol S.A.	2
Hocol Petroleum Limited	2

¹ The fields correspond to Chuchupa and Ballena where Ecopetrol S.A. has 57% stake while Hocol S.A. holds 43%

Code	EM-EP-000.C
Accounting Metric	Number of terrestrial sites
Unit of measure	Number

Number of terrestrial sites
189² fields
52³ fields
114 wells ⁴
-
-

¹ Types of onshore sites:

• Oil Type: Corresponds to fields with oil or petroleum wells. · Gas type: Corresponds to fields with gas wells.

• Definition of well: Refers to any ground drilling designed with the goal of finding and extracting combustible fluid, either oil or gaseous hydrocarbons.

Definition of field: Refers to an area with a given number of wells from which hydrocarbons are extracted from the subsoil.
 ² 184 sites correspond to development fields and 5 to exploratory fields (RECETOR WEST, FLAMENCOS, BORANDA, EL NIÑO, LORITO).
 ³ 34 sites correspond to development fields and 18 to exploratory fields.

⁴ Number of terrestrial sites: Active wells: 96; non-productive wells: 8; drilling phase wells: 4; completion phase wells: 6. This report does not include non-operating wells, as they are not considered materially relevant for Ecopetrol

Accounting metric
Unidad de medida
Ecopetrol S.A.
Hocol Petroleum Limited

ENVIRONMENT

Greenhouse Gas Emissions (GHG)

EM-EP
(1) Gros under e
Metric

	2021	
(1)	(2)	(3) ¹
tonCO ₂ e	%	%
10.296.909	4,69	Not apply
271.213 ³	3,09	Not apply
26.5314	9	100
37.3205	7	-
	Not apply	
	tonCO2e 10.296.909 271.213 ³ 26.531 ⁴	(1) (2) tonCO2e % 10.296.909 4,69 271.2133 3,09 26.5314 9 37.3205 7

(released methane) in Colombia. Joint Ventures.

		2020			
Accounting metric	(1)	(2)	(3) ¹		
Unit of measure	tonCO ₂ e	%	%		
Ecopetrol S.A. ²	10.238.780	4	Not apply		
Hocol Petroleum Limited	Information not available for 2020				

(released methane) in Colombia. midstream subsidiary, was no longer under Ecopetrol's operational control.

2020	
	Number of terrestrial sites
	204 Productive + 21 Exploratory
	39 Productive + 19 Exploratory

P-110a.1

oss global Scope 1 emissions, (2) Percentage methane, (3) percentage covered emissions-limiting regulations

tons CO₂-e (t), percentage (%)

¹ A percentage covered does not apply under the GHG regulatory emission limit because there is no regulation associated with such emissions

² For Ecopetrol S.A. this metric is prepared under the ISO 14064-1 methodology and the GHG Protocol, and the organizational limit of the inventory is established as operational control, under this approach the company accounts for 100% of its Greenhouse Gas (GHG) emissions attributable to the operations over which it exercises control, Ecopetrol S.A.'s GHG inventory includes the refining segment, Barrancabermeja Refinery and the assets operated by the Cartagena Refinery. Additionally for the year 2021, CENIT and ODC, subsidiaries from the midstream segment, are no longer under the operational control of Ecopetrol. For this reason, the historical series corresponding to the period 2018 - 2020 is recalculated in this report. ³ To calculate the emissions, reference is made to the provisions of the World Resources Institute's (WRI) Greenhouse Gas Protocol o and the World Business

Council for Sustainable Development (WBCSD) and Colombian Technical Standard NTC-ISO 14064-1, Greenhouse Gases in its Part 1: Specification with guidance, at the level of organizations, for the quantification and reporting of GHG emissions and removals. For the last two bimesters of the year, average consumption values were used, therefore emissions may vary for 2021 yearend statistics. ⁴ According to the API Methodology 2009 combustion, flaring, and venting emissions were estimated using mass balance calculations; for the fugitive

emissions calculated emission factors were used. Ecopetrol Permian holds a 49% share in the JV Rodeo.

⁵ The total volume of GHG emissions is based on actual reported emissions, but the distribution between CO2, CH4 and N20 is estimated based on the Marco Polo facility, which is processing HCs from K2, the largest producing field for EA. Note that Ecopetrol America is not the Operator for any of the production in the US GoM. Note that the reported emissions represent the sum of Ecopetrol America's equity share / working interest in the respective

¹ A percentage covered does not apply under the GHG regulatory emission limit because there is no regulation associated with such emissions

² With respect to the data presented for Ecopetrol S.A. it is worth noting that Ecopetrol's atmospheric emissions inventory is structured under the operational control approach, for upstream, midstream and downstream activities. The indicator was recalculated for 2020 due to two (2) operational events, in 2020 Ecopetrol assumed the operation of the Pauto - Floreña asset, which was not reported in the initial figure, and by 2021 Cenit, a

Code	EM-EP-110a.2
Accounting Metric	Amount of gross global Scope 1 emissions from: (1) flared hydrocarbons, (2) other combustion, (3) process emissions, (4) other vented emissions, and (5) fugitive emissions
Unit of measure	Metrics tons CO ₂ -e

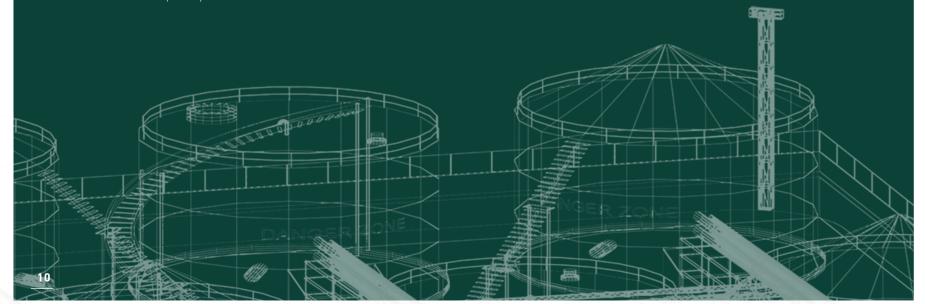
			2021		
Accounting metric	(1)	(2)	(3)	(4)	(5)
Unit of measure	tonCO2e	tonCO ₂ e	tonCO ₂ e	tonCO ₂ e	tonCO ₂ e
Ecopetrol S.A. ¹	924.991	7.743.355	1.405.285		223.278
Hocol Petroleum Limited	52.691	210.171		3.137	5.214
Ecopetrol Permian LLC	18.823	6.841		82²	785
Ecopetrol America LLC	3.478³	26.814		6.297	731
Ecopetrol Óleo e Gas do Brasil					

¹ For Ecopetrol S.A. this metric is prepared under the ISO 14064-1 methodology and the GHG Protocol, and the organizational limit of the inventory is established as operational control, under this approach the company accounts for 100% of its Greenhouse Gas (GHG) emissions attributable to the operations over which it exercises control, the GHG inventory of Ecopetrol S.A. includes the refining segment, Barrancabermeja Refinery and the assets operated by the Cartagena Refinery.

² In the Permian case, our production circuit is closed and our estimation for vented emissions is related to the crude oil flashing losses in oil storage tanks, we assume a 95% efficiency for the Vapor Recovery Units, that's the reason why our number is low. ³ The numbers are for EA working interest in non-operated JVs.

			2020			
Accounting metric	(1)	(2)	(3)	(4)	(5)	
Unit of measure	tonCO ₂ e	tonCO ₂ e	tonCO ₂ e	tonCO ₂ e	tonCO ₂ e	
Ecopetrol S.A. ¹	923.432	7.774.397	1.307.403		233.548	
Hocol Petroleum Limited	Information not available for 2020					

¹ With respect to the data presented for Ecopetrol S.A. it is worth noting that Ecopetrol's atmospheric emissions inventory is structured under the operational control approach, for upstream, midstream and downstream activities, including emissions from the Barrancaberneja Refinery and the assets operated by the Cartagena Refinery. The indicator was recalculated for 2020 due to two (2) operational events, in 2020 Ecopetrol assumed the operation of the Pauto - Floreña asset, which was not reported in the initial figure, and by 2021 Cenit, a midstream subsidiary, was no longer under Ecopetrol's operational control.



Code	EM-EP
Accounting Metric	Discus emissi those t
Unit of measure	Discus

Ecopetrol S.A Hocol Petroleum Limited Ecopetrol Permian LLC Ecopetrol America LLC Ecopetrol Óleo e Gas do Brasil	(Sc (Sc 205	e Ecc opes opes 50 (S ined
Ecopetrol S.A.	cor cha	opetr npre allen keho
	•	Gr inc eff en (Ni sta
	•	Ge to inc an ca Cu
	•	inr en Co
	•	in Th an
	•	Pe
	•	lde ree
	•	Co are by
	•	Re
	•	lm us
	•	lm ge
	•	De pro an ow mo
	•	De inc orc em

P-110a.3

ssion of long-term and short-term strategy or plan to manage Scope 1 sions, emissions reduction targets, and an analysis of performance against targets

ssion and analysis

2021

opetrol Group committed to achieve net-zero carbon emissions by 2025 s 1 and 2) and to reduce 25% of its CO2 emissions by 2030 with respect to 2019 es 1 and 2). Additionally, it also committed to reduce 50% of total emissions by Scope 1, 2 and 3). To achieve this, Ecopetrol and each of its subsidiaries have l actions to reduce GHG emissions in accordance with their climate ambitions.

rol defined its 2040 corporate strategy "Energy that transforms", which ehensively responds to the current environmental, social and governance nges, maintaining its focus on generating sustainable value for all olders. The strategy is based on four strategic pillars:

rowing with Energy Transition: Growing with the transition involves the gradual cursion into emerging businesses aligned with new global trends to mitigate the fects of climate change, such as the production of low-carbon hydrogen as an nergy source, carbon capture, use and storage (CCUS), Natural Climate Solutions ICS) and the implementation of the CO2 shadow price, with a price curve that arts at 20 USD/TonCO₂e today and increases to 40 USD/tonCO₂e by 2030.

enerate value with TESG: This pillar includes a strategic action plan that seeks accelerate and prioritize decarbonization and energy efficiency through the corporation of renewable energy sources for self-consumption (wind, solar nd geothermal energy). In this context, the EG will increase its self-generation apacity with renewable energies between 400 - 450 MW by 2024.

utting-edge knowledge: develop the necessary capabilities to face growth and istainability challenges, through a comprehensive science, technology and novation strategy (ST&I), that contributes to diversification, increasing clean nergy, decarbonizing operations and empowering human talent.

ompetitive returns: ensure the continuity of strict capital discipline, rigor the efficient use of resources and protection of GE's cash flow.

ne decarbonization plan for meeting reduction goals includes short, medium nd long term actions in:

ermanent updating and continuous verification of the greenhouse gas inventory.

entification, development and implementation of operational initiatives to duce emissions

ontinued implementation of emissions reduction initiatives in the operating reas focused on energy efficiency, where the goal is to increase efficiency by 6% / 2028.

educe routine flaring to zero by 2030.

nprove processes for detecting and measuring fugitive emissions and venting sing state-of-the-art technologies, and reduce methane emissions.

nplement the renewable energy portfolio (solar photovoltaic, wind and eothermal projects) with the goal of achieving between 400 and 450 MW by 2024.

evelop emerging technologies, with the implementation of green hydrogen roduction pilots and Carbon Capture, Use and Sequestration. Between 2022 nd 2030, green hydrogen efforts will focus on the expansion of hydrogen in wn operations with industrial-scale projects, and applications in sustainable obility will begin for cars and buses.

evelop and consolidate an offset portfolio through Natural Climate Solutions, cluding the development of emission reduction and removal projects, in der to generate at least two million carbon credits by 2030, to offset residual missions that cannot be mitigated or eliminated.

Hocol	As a result of the 2020 and 2021 inventory review, the need to improve the process to acquire, monitor and analyze variables was identified, in order to ensure data	Air Quality				
	traceability, standardization of criteria and data automation, and thus avoid the human factor.	Code	EM-EP-120a.1			
	On the other hand, the Net-zero Carbon Management System was structured	Accounting Metric	Air emissions of the following po volatile organic compounds (VOC			
	to achieve short-, medium- and long-term goals. This system incorporated the necessary elements based on Hocol and the Ecopetrol Business Group's processes, strategies, plans and goals.	Unit of measure	Metric tons			,
	The elements with the highest priority: i) road maps for each of HOCOL's Net-zero	A	(2)		021	(1)
	Carbon Plan elements. An additional component has been included, that corresponds to Scope 3 emissions management for 2022; ii) the design of roadmaps for each	Accounting Metric Unit of measure	(1) tonNOx	(2) tonSOx	(3) tonVOCs	(4) tonPM10
asset; iii) regulation: HOCOL has t that are in the process of being ap	asset; iii) regulation: HOCOL has been active in consultative phases of regulations	Ecopetrol S.A.	23.036,00	3.864,79	99.085,26	770,39
	that are in the process of being approved; mapping of current legislation and tax	Hocol Petroleum Limite	,		available for 2021	
	benefit opportunities; iv) survey of the energy inventory of all Hocol operations; v) design and implementation of a policy for the management of fugitive emissions	Ecopetrol Permian LLC	u			
	and venting; vi) use of gas from tailings and venting; vii) design and implementation	Ecopetrol America LLC		Information not available for 2021		
	of plans for offsetting emissions; and, viii) feasibility of using renewable energy to supply part of the energy demand.	Ecopetrol Álhenca ELC Ecopetrol Óleo e Gas do	Bracil		apply	
			DI dSIL	INUL	арріу	
rasil	Short-term Strategy/Long-term Strategy: The company recognizes the role climate change strategy play and, therefore, aim to manage the greenhouse gases (GHGs) emissions through operational energy efficiency through out the joint venture partners. The Company plans to manage and follow strictly, as a Non Operator in Brazil in Gato do Mato Project, with the joint venture partners, the GHG emissions	boilers in the field have not been	ing out the information on air emissions from n operating since November 2019 and the electric an 1 MW. However, the source inventory inform	c generators do not req ation is being organize	quire isokinetic studies d d in order to quantify air	lue to their capacity,
	and assess possible mitigation measures, in line with applicable local requirements and the Company 's headquarters strategy. The Company aim to have joint venture partners aligned with the GHG reduction emissions. The partners in Gato do Mato project have agreed to apply six Energy Transition Principles jointly developed with other industry companies. Such principles aim to support collective industry		(4)		020	(1)
		Accounting Metric	(1)	(2)	(3)	(4)
		Unit of measure	tonNOx	tonSOx	tonVOCs	tonPM10
	acceleration to contribute to the Paris Agreement goals by delivering progress on	Ecopetrol S.A. ¹	23.587,47	3.905,81	105.202,11	808,28
	reducing GHG emissions, the role of carbon sinks, and transparency and alignment	Hocol Petroleum Limite	d	Information not	available for 2020	
	on climate change with trade associations.					
	on climate change with trade associations. Emissions reduction target(s): As a Non Operator in Brazil, the Company manages		or Ecopetrol S.A., the indicator was recalculate e assets operated by Refinería de Cartagena an y.			
	on climate change with trade associations. Emissions reduction target(s): As a Non Operator in Brazil, the Company manages with the joint venture partners the GHG emissions and assess possible mitigation measures, in line with applicable local requirements and the headquarters	Barrancabermeja refinery and the	e assets operated by Refinería de Cartagena an			
	on climate change with trade associations. Emissions reduction target(s): As a Non Operator in Brazil, the Company manages with the joint venture partners the GHG emissions and assess possible mitigation measures, in line with applicable local requirements and the headquarters strategy. For the Projects in Brazil, the Company estimates the Gato do Mato Project, located offshore in Santos Basin, will start production in Q4/2025 or Q1/2026. In this sense, there is a plan to align with Operator the GHG emissions for	Barrancabermeja refinery and the	e assets operated by Refinería de Cartagena an			
	on climate change with trade associations. Emissions reduction target(s): As a Non Operator in Brazil, the Company manages with the joint venture partners the GHG emissions and assess possible mitigation measures, in line with applicable local requirements and the headquarters strategy. For the Projects in Brazil, the Company estimates the Gato do Mato Project, located offshore in Santos Basin, will start production in Q4/2025 or Q1/2026. In this sense, there is a plan to align with Operator the GHG emissions for reduction and mitigation measures.	Barrancabermeja refinery and the midstream segments, respectivel	e assets operated by Refinería de Cartagena an			
	on climate change with trade associations. Emissions reduction target(s): As a Non Operator in Brazil, the Company manages with the joint venture partners the GHG emissions and assess possible mitigation measures, in line with applicable local requirements and the headquarters strategy. For the Projects in Brazil, the Company estimates the Gato do Mato Project, located offshore in Santos Basin, will start production in Q4/2025 or Q1/2026. In this sense, there is a plan to align with Operator the GHG emissions for reduction and mitigation measures. Actions to achieve the target(s): As production begins (Q4/2025 or Q1/2026), the Company plans to follow strictly with Operator and joint venture partners the GHG emissions and mitigation measures, in order to optimize the energy consumption in	Barrancabermeja refinery and the midstream segments, respectivel Water Management	e assets operated by Refinería de Cartagena an y. EM-EP-140a.1 (1) Total fresh water withdrawn, fresh water withdrawn and (4) pr	d Cenit, which are inclu (2) total fresh wa ercentage fresh v	uded in this report for th	e downstream and
	on climate change with trade associations. Emissions reduction target(s): As a Non Operator in Brazil, the Company manages with the joint venture partners the GHG emissions and assess possible mitigation measures, in line with applicable local requirements and the headquarters strategy. For the Projects in Brazil, the Company estimates the Gato do Mato Project, located offshore in Santos Basin, will start production in Q4/2025 or Q1/2026. In this sense, there is a plan to align with Operator the GHG emissions for reduction and mitigation measures. Actions to achieve the target(s): As production begins (Q4/2025 or Q1/2026), the Company plans to follow strictly with Operator and joint venture partners the GHG	Barrancabermeja refinery and the midstream segments, respective Water Management Code	e assets operated by Refinería de Cartagena an y. EM-EP-140a.1 (1) Total fresh water withdrawn,	d Cenit, which are inclu (2) total fresh wa ercentage fresh w water Stress	uded in this report for th	e downstream and
	 on climate change with trade associations. Emissions reduction target(s): As a Non Operator in Brazil, the Company manages with the joint venture partners the GHG emissions and assess possible mitigation measures, in line with applicable local requirements and the headquarters strategy. For the Projects in Brazil, the Company estimates the Gato do Mato Project, located offshore in Santos Basin, will start production in Q4/2025 or Q1/2026. In this sense, there is a plan to align with Operator the GHG emissions for reduction and mitigation measures. Actions to achieve the target(s): As production begins (Q4/2025 or Q1/2026), the Company plans to follow strictly with Operator and joint venture partners the GHG emissions and mitigation measures, in order to optimize the energy consumption in the project; Seek with partners to minimize flaring, wherever practical and according 	Barrancabermeja refinery and the midstream segments, respective Water Management Code Accounting Metric	e assets operated by Refinería de Cartagena an y. EM-EP-140a.1 (1) Total fresh water withdrawn, fresh water withdrawn and (4) p High or Extremely High Baseline	(2) total fresh wa ercentage fresh v e Water Stress rcentage (%)	uded in this report for th	e downstream and
	 on climate change with trade associations. Emissions reduction target(s): As a Non Operator in Brazil, the Company manages with the joint venture partners the GHG emissions and assess possible mitigation measures, in line with applicable local requirements and the headquarters strategy. For the Projects in Brazil, the Company estimates the Gato do Mato Project, located offshore in Santos Basin, will start production in Q4/2025 or Q1/2026. In this sense, there is a plan to align with Operator the GHG emissions for reduction and mitigation measures. Actions to achieve the target(s): As production begins (Q4/2025 or Q1/2026), the Company plans to follow strictly with Operator and joint venture partners the GHG emissions and mitigation measures, in order to optimize the energy consumption in the project; Seek with partners to minimize flaring, wherever practical and according 	Barrancabermeja refinery and the midstream segments, respective Water Management Code Accounting Metric	e assets operated by Refinería de Cartagena an y. EM-EP-140a.1 (1) Total fresh water withdrawn, fresh water withdrawn and (4) p High or Extremely High Baseline	(2) total fresh wa ercentage fresh v e Water Stress rcentage (%)	uded in this report for th iter consumed, (3) water consumed in	e downstream and
	 on climate change with trade associations. Emissions reduction target(s): As a Non Operator in Brazil, the Company manages with the joint venture partners the GHG emissions and assess possible mitigation measures, in line with applicable local requirements and the headquarters strategy. For the Projects in Brazil, the Company estimates the Gato do Mato Project, located offshore in Santos Basin, will start production in Q4/2025 or Q1/2026. In this sense, there is a plan to align with Operator the GHG emissions for reduction and mitigation measures. Actions to achieve the target(s): As production begins (Q4/2025 or Q1/2026), the Company plans to follow strictly with Operator and joint venture partners the GHG emissions and mitigation measures, in order to optimize the energy consumption in the project; Seek with partners to minimize flaring, wherever practical and according 	Barrancabermeja refinery and the midstream segments, respective Water Management Code Accounting Metric Unit of measure	e assets operated by Refinería de Cartagena an y. EM-EP-140a.1 (1) Total fresh water withdrawn, fresh water withdrawn and (4) p High or Extremely High Baseline Thousand cubic meters (m³), Pe	(2) total fresh wa ercentage fresh v Water Stress rcentage (%)	uded in this report for th ater consumed, (3) water consumed in 021	percentage n regions with
	 on climate change with trade associations. Emissions reduction target(s): As a Non Operator in Brazil, the Company manages with the joint venture partners the GHG emissions and assess possible mitigation measures, in line with applicable local requirements and the headquarters strategy. For the Projects in Brazil, the Company estimates the Gato do Mato Project, located offshore in Santos Basin, will start production in Q4/2025 or Q1/2026. In this sense, there is a plan to align with Operator the GHG emissions for reduction and mitigation measures. Actions to achieve the target(s): As production begins (Q4/2025 or Q1/2026), the Company plans to follow strictly with Operator and joint venture partners the GHG emissions and mitigation measures, in order to optimize the energy consumption in the project; Seek with partners to minimize flaring, wherever practical and according 	Barrancabermeja refinery and the midstream segments, respectived Water Management Code Accounting Metric Unit of measure Accounting metric	e assets operated by Refinería de Cartagena an y. EM-EP-140a.1 (1) Total fresh water withdrawn, fresh water withdrawn and (4) p High or Extremely High Baseline Thousand cubic meters (m³), Pe (1)	(2) total fresh wa ercentage fresh v e Water Stress rcentage (%) 2 (2)	uded in this report for th ater consumed, (3) water consumed in 021 (3)	percentage regions with (4)
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	 on climate change with trade associations. Emissions reduction target(s): As a Non Operator in Brazil, the Company manages with the joint venture partners the GHG emissions and assess possible mitigation measures, in line with applicable local requirements and the headquarters strategy. For the Projects in Brazil, the Company estimates the Gato do Mato Project, located offshore in Santos Basin, will start production in Q4/2025 or Q1/2026. In this sense, there is a plan to align with Operator the GHG emissions for reduction and mitigation measures. Actions to achieve the target(s): As production begins (Q4/2025 or Q1/2026), the Company plans to follow strictly with Operator and joint venture partners the GHG emissions and mitigation measures, in order to optimize the energy consumption in the project; Seek with partners to minimize flaring, wherever practical and according 	Barrancabermeja refinery and the midstream segments, respectived Water Management Code Accounting Metric Unit of measure Accounting metric Unit of measure Ecopetrol S.A.1	e assets operated by Refinería de Cartagena an y. EM-EP-140a.1 (1) Total fresh water withdrawn, fresh water withdrawn and (4) p. High or Extremely High Baseline Thousand cubic meters (m³), Pe (1) (1) (1) (1) (1) (1) (1) (1)	(2) total fresh wa ercentage fresh va ercentage fresh v e Water Stress rcentage (%) 2 (2) m3 1.987 ² 146,20	uded in this report for th ater consumed, (3) water consumed in 021 (3)	percentage n regions with (4) %
	 on climate change with trade associations. Emissions reduction target(s): As a Non Operator in Brazil, the Company manages with the joint venture partners the GHG emissions and assess possible mitigation measures, in line with applicable local requirements and the headquarters strategy. For the Projects in Brazil, the Company estimates the Gato do Mato Project, located offshore in Santos Basin, will start production in Q4/2025 or Q1/2026. In this sense, there is a plan to align with Operator the GHG emissions for reduction and mitigation measures. Actions to achieve the target(s): As production begins (Q4/2025 or Q1/2026), the Company plans to follow strictly with Operator and joint venture partners the GHG emissions and mitigation measures, in order to optimize the energy consumption in the project; Seek with partners to minimize flaring, wherever practical and according 	Barrancabermeja refinery and the midstream segments, respectivel Water Management Code Accounting Metric Unit of measure Accounting metric Unit of measure Ecopetrol S.A.1 Hocol Petroleum Limite	e assets operated by Refinería de Cartagena an y. EM-EP-140a.1 (1) Total fresh water withdrawn, fresh water withdrawn and (4) pr High or Extremely High Baseline Thousand cubic meters (m³), Pe (1) M3 11.561 d 182,20	(2) total fresh wa ercentage fresh wa ercentage fresh v Water Stress rcentage (%) 2 (2) m3 1.987 ² 146,20 Not	uded in this report for th ater consumed, (3) water consumed in 021 (3) 7 1 -	percentage n regions with (4) %

¹ Corresponds to Ecopetrol S.A.'s water extraction and use, excluding the Barrancabermeja refinery, which is included in this report under the corresponding sector.
 ² Water consumption is estimated according to the "CDP Water Security ²⁰²¹ Reporting Guidance" for the Oil & Gas sector.
 ³ America, as an off-shore company, does not extract water in its production process. The water used is immaterial as it is only used for human consumption on the platform, and for cleaning processes.

12

		202	20	
Accounting metric	(1)	(2)	(3)	(4)
Unit of measure	m³	m ³	%	%
Ecopetrol S.A.	23.467 ¹	1.904	1	-
Hocol Petroleum Limited	189,10	189,10	-	-

¹ For comparative purposes, ²⁰²⁰ data is adjusted to exclude information from the Barrancabermeja Refinery.

Code	EM-EP-140a.2
Accounting Metric	(1) Volume of produced water and flowback generated;(2) percentage discharged,(3) injected,(4) recycled;(5) hydrocarbon content in discharged water
Unit of measure	Thousand cubic meters (m³), Percentage (%), Metric tons (t)

			2021		
Accounting metric	(1)	(2)	(3)	(4)	(5)
Unit of measure	m ³	%	%	%	ton
Ecopetrol S.A.	388.370 ¹	11,80	63,40	24,80	101,80
Hocol Petroleum Limited	19.865	1,42	79,21	19,37	1,67
Ecopetrol Permian LLC	1.510	-	57,20	42,80	-
Ecopetrol America LLC	11	100	-	-	-
Ecopetrol Óleo e Gas do Brasil	-				

¹ Ecopetrol S.A. and Hocol do not carry out hydraulic fracturing activities and therefore do not generate flowback.

			2020		
Accounting metric	(1)	(2)	(3)	(4)	(5)
Unit of measure	m ³	%	%	%	ton
Hocol Petroleum Limited	18.515	2,38	94,35	Information not available for 2020	2,57
Ecopetrol S.A.	403,4411	17,75	60,49	21,76	386,60

¹ Ecopetrol S.A. and Hocol do not carry out hydraulic fracturing activities and therefore do not generate flowback.

Code	EM-EF
Accounting Metric	Percer all frac
Unit of measure	Percer

	2021
Accounting metric	(1)
Unit of measure	%
Ecopetrol S.A.	Not apply
Hocol Petroleum Limited	Not apply
Ecopetrol Permian LLC ¹	100 ²
Ecopetrol America LLC	Not apply
Ecopetrol Óleo e Gas do Brasil	Not apply

¹ To date, only Permian carries out hydraulic fracturing activities.
² 94 of 94 hydraulic fracturing wells are reported to the public.

	2020
Accounting metric ¹	(1)
Unit of measure	%
Ecopetrol S.A.	Not apply
Hocol Petroleum Limited	Not apply

¹ To date, the companies have not carried out multi-stage hydraulic fracturing of horizontal wells activities for non- conventional reservoirs

Code	EM-EP
Accounting Metric	Percen deterio
Unit of measure	Percen

	2021
Accounting metric	(1)
Unit of measure	%
Ecopetrol S.A.	Not apply
Hocol Petroleum Limited	Not apply
Ecopetrol Permian LLC	-
Ecopetrol America LLC	Not apply
Ecopetrol Óleo e Gas do Brasil	Not apply

	2020
Accounting metric	(1)
Unit of measure	%
Ecopetrol S.A.	Not apply
Hocol Petroleum Limited	Not Apply

P-140a.3

entage of hydraulically fractured wells for which there is public disclosure of acturing fluid chemicals used

Percentage (%)

P-140a.4

ntage of hydraulic fracturing sites where ground or surface water quality iorated compared to a baseline

ntage (%)

Biodiversity impacts

ode ccounting Metric	EM-EP-160.a1 Description of environmental management policies and practices for active sites
nit of measure	Discussion and analysis
	2021
opetrol S.A.	Ecopetrol S.A. Environmental Strategy is aimed at formulating environmental protection guidelines, and is embedded and articulated in accordance with Ecopetrol S.A.'s Sustainability Strategy and the Corporate Responsibility Strategy. It also seeks to promote compliance with corporate goals within the energy transition framework. This strategy is developed in accordance with the guidelines established in the ISO 14001 standard. It seeks to maintain an operation that is in harmony and balance with the environment, one that progressively reduces potential impacts and risks to ecosystems, and generates environmental value, in harmony with the environment and stakeholders.
	Ecopetrol S.A.'s Environmental Strategy is comprised of the following 8 Strategic Pillars:
	Environmental planning and compliance: The prior knowledge and diagnosis of environmental aspects and determinants, as well as, the specific regulations of the areas where Ecopetrol S.A develops its projects and operations allow for identifying potential environmental impacts and essential opportunities for the conception and planning of measures focused mainly, on the application of the mitigation hierarchy, contributing to the successful development of operations, the viability of new projects and the sustainable development of the territories where it operates.
	Climate action: Ecopetrol maintains its commitment to reduce its carbon footprint and thus joins efforts to limit the increase in global temperature to below 1.5°C. To this end, it takes actions to reduce carbon emissions both in operations and in the company's value chain, reduce the operation's vulnerability to climate variability and change, as well as adequately manage risks and identify opportunities in relation to climate change.
	Towards water neutrality: On a global level, the goals associated with water management are framed in Sustainable Development Goal 6, which seeks to ensure universal access to safe and affordable drinking water for all by 2030, and as a result of this, comprehensive water management in Ecopetrol, must contribute to the equitable provision, economically sound and environmentally sustainable provision of water resources, in coordination with Ecopetrol's Corporate Strategy, the TESG agenda, the water neutrality roadmap, and the climate action, biodiversity and circular economy strategic pillars.
	Biodiversity and ecosystem services: The purpose of the biodiversity strategic pillar is to adequately manage the risks and opportunities associated with biodiversity and ecosystem services, meeting stakeholder expectations and ensuring the continued license to operate. This pillar has four main axes: i) Mitigation hierarchy, ii) Nature- based solutions, iii) Generation of knowledge, and iv) Biodiversity culture.
	 Mitigation hierarchy: Its purpose is to prevent, avoid and mitigate impacts on biodiversity and compensate for residual impacts. Ecopetrol S.A. does not have, nor does it plan to carry out exploration, production or refining activities in areas classified as high biodiversity value categories I to IV by the International Union for Conservation of Nature (IUCN), or in areas declared World Heritage Sites by UNESCO.
	 Nature-based solutions: Seeks to maintain biodiversity and ecosystem services in strategic areas, identifying synergies between nature, society and the local economy to respond to challenges such as climate change (Natural Climate Solutions), water resource management and biodiversity.

Continue to next page

Circular Economy: Circular Economy has been defined as a "Production and consumption system that promotes efficiency in the use of materials, water and energy, taking into account the resilience of ecosystems, the circular use of material flows through the implementation of technological innovation, alliances and collaborations between actors, and the promotion of business models that respond to the fundamentals of sustainable development" (ENEC. Ministry of the Environment and Sustainable Development, Ministry of Commerce, 2019). In this sense, a circular economy is adopted as an enabler that contributes to the energy transition, net zero carbon emissions goal, reduction of the water footprint, closing the cycle of materials and waste, and diversification of new businesses, to ensure the competitiveness and long-term sustainability of the company, while advocating for the conservation of natural resources and the welfare of society.

Clean air for the environment: Estimate the contribution to reducing atmospheric emissions of criteria pollutants and/or improving air quality from decarbonization initiatives, energy transition, clean fuels, strategic environmental investment, and mandatory environmental investment (1% and offsets).

Integrated waste management: This strategic pillar leverages the adoption of operational and organizational measures to reduce (to economically and technically feasible levels) the quantity and hazardous nature of waste generated, based on three (3) fundamental aspects: a) Reduction at the source or origin; b) recovery of materials through the use of waste, through the implementation of the circular economy concept of Multi-R or 9Rs; c) incorporation of disruptive technologies.

Prevention and remediation: This pillar focuses on the prevention of operational incidents affecting the environment, incorporating proactive risk management and analysis of the potential materialization of environmental risks specific to the company's different businesses.

For additional information please visit: https://www.ecopetrol.com.co/wps/por- tal/ Home/sostecnibilidad/ambiental/estrategia-ambiental

Hocol Petroleum

Ecopetrol Permian

Brasil

Limited

16

2021

• Generation of knowledge: includes the generation of information on biodiversity and ecosystem services to strengthen the decision-making process.

• Biodiversity culture: seeks to strengthen the value of biodiversity and ecosystem services in the Company.

Hocol currently follows an Occupational Health and Safety Management System in accordance with the provisions set forth in Decree 1072 of 2015, which is implemented, evaluated and improved on an ongoing basis.

Since Ecopetrol's U.S. companies are purely non-operating, the description of the environmental management policies and practices of the fields and platforms are attributed to the environmental management policies formulated by the respective operator for each facility where business operations are carried out.

Information not available for 2021

EM-EP-160a.2

Code

Accounting Metric	(1) Number and (2) aggregate volume of hydrocarbon spills, (3) volum volume impacting shorelines with ESI rankings 8-10, and (5) volume				
Unit of measure	Number, barrels (bb	ols)			
	2021				
Accounting metric	(1)	(2)	(3)	(4)	(5)
Unit of measure	Number of sites	bbls	bbls	bbls	bbls
Ecopetrol S.A.	5	157,76	Not apply	-	-
Hocol Petroleum Limited	11	1,20	Not apply	-	1
Ecopetrol Permian LLC	1	4	Not apply	-	4
Ecopetrol America LLC	-	-	Not apply	-	-
Ecopetrol Óleo e Gas do Brasil			Not apply		

			2020		
Accounting metric	(1)	(2)	(3)	(4)	(5)
Unit of measure	Number of sites	bbls	bbls	bbls	bbls
Ecopetrol S.A.	4	125	Not apply	-	12,5
Hocol Petroleum Limited	4	23	Not apply	-	22,7

Code	EM-EP-160a.3	
Accounting Metric	Percentage of (1) proved and (2) probable reserves in or near sites with protected conservation status or endangered species habitat	ł
Unit of measure	Percentage (%)	
	2021	

Accounting metric ¹	(1)	(2)
Unit of measure	%	%
Ecopetrol reports no operations in IUCN (International Union for Conservation of Natur	re) categories I to I'	/ protected areas.
Ecopetrol S.A.	0,32	0,03
Hocol Petroleum Limited ²	0,94	-
Ecopetrol Permian LLC	-	-
Ecopetrol America LLC	-	-
Ecopetrol Óleo e Gas do Brasil	Not	apply

¹ For the year 2021, the metric was calculated based on the map suggested by SASB "Explore the World's Protected Areas (protectedplanet.net)" which includes the total land and marine protected areas. ² The Totare field is located within the Armero protected area.

	2020
Accounting metric ¹	(1)
Ecopetrol S.A. Hocol	Ecopetrol S.A. and Hocol S.A. declare that they do not have – nor do they plan to intervene with – any exploration, production or refining activities in areas of great biodiversity value classified according to the International Union for Conservation of Nature (IUCN) in categories I and IV, nor in World Heritage sites declared by UNESCO.

SOCIAL CAPITAL

Security, Human Rights & Rights of Indigenous Peoples

Code	EM-EF
Accounting Metric	Percer
Unit of measure	percer
Accounting metric ¹	

20	2021	
(1)	(2)	
%	%	
-	-	
-	-	
-	-	
-	-	
Not apply		
	(1) % - - - -	

¹ The calculation was made based on the 2020 (last reported) armed conflict information available on the UPSALA website [https://www.pcr.uu.se/] and the locations where the company has reserves.

	20	2020	
Accounting metric ¹	(1)	(2)	
Unit of measure	%	%	
Ecopetrol S.A.	2,24	1,58	
Hocol Petroleum Limited	-	-	

¹ The calculation was made based on the 2019-armed conflict information (last available) reported on the UPSALA page (https://www.pcr.uu.se/) and the locations where the company has reserves.

Code	EM-EP
Accounting Metric	Percen
Unit of measure	Percen

	20	2021	
Accounting metric ¹	(1)	(2)	
Unit of measure	%	%	
Ecopetrol S.A.	23,77	26,31	
Hocol Petroleum Limited	51	1	
Ecopetrol Permian LLC	-	-	
Ecopetrol America LLC	-	-	
Ecopetrol Óleo e Gas do Brasil	Not a	Not apply	

¹ For the year 2021, the metric was calculated based on the National Land Agency's map "https://data-agenciadetierras.opendata.arcgis.com/" which includes the total number of indigenous reserves.

	20	2020	
Accounting metric ¹	(1)	(2)	
Unit of measure	%	%	
Ecopetrol S.A.	17,57	14,51	
Hocol Petroleum Limited	62,41	-	

versus the total area of the field.

P-210a.1

entage of (1) proved and (2) probable reserves in or near areas of conflict entage (%)

P-210a.2

ntage of (1) proved and (2) probable reserves in or near indigenous land ntage (%)

¹ Reserves in indigenous lands were determined as the proportion of the area overlaid with indigenous territories

Code	EM-EP-210a.3
Accounting Metric	Discussion of engagement processes and due diligence practices with respect to human rights, indigenous rights, and operation in areas of conflict
Unit of measure	Discussion and analysis

2021

Ecopetrol S.A.

Ecopetrol promotes a corporate culture based on respect and promotion of Human Rights (HR). Its commitment, enshrined in the Ecopetrol Human Rights Guide, meets the highest international standards in this area. To this end, the Company adhered to the United Nations Guiding Principles on Business and Human Rights and other international instruments that reflect the highest standards in corporate management of human rights issues. This commitment extends to its employees and suppliers, and must be followed when developing their activities. Additionally, the Company promotes its adoption among its partners, associates and other actors with whom it has a contractual or business relationship, especially in the framework of those activities carried out jointly with Ecopetrol. The Company confimrms its commitment to respect human rights as established in the International Bill of Human Rights and in the ILO Declaration on Fundamental Principles and Rights at Work.

PRINCIPLES FOR HHRR MANAGEMENT: The Company is guided by six principles in human rights management:

- Due diligence in HHRR
- All encompassing
- Complementary
- Collaborative work
- Differential approach
- Monitoring and self-evaluation

DUE DILIGENCE: Ecopetrol S.A. follows a Guideline for Risk Management Cycle in HHRR, whose objective is to provide guidelines for risk management in HHRR for the Ecopetrol Group (EG, Ecopetrol, the Company), through the definition of key concepts and considerations for planning, identification, evaluation, treatment and monitoring of HHRR risks. This, in accordance with the provisions of the Guideline for Integrated Risk Management in the Ecopetrol Group and the highest national and international standards on human rights. This cycle takes into consideration different sources of information that provide input into the manner in which the Company's manages due diligence. Within the framework of this cycle, Ecopetrol identifies and manages the risks and negative impacts derived from its business activities, the supply chain or other contractual or business relationships, and establishes action plans for their prevention, mitigation or remediation. This Management Cycle has foreseen the survey of operational risks and provides input to the current Integrated Risk Management System, which identifies risks at the strategic and process levels.

This exercise identifies potential risks and impacts caused by the Company, those in which it may contribute or which it may be associated with. It also incorporates those risks and impacts on human rights derived from the environment, especially for the community, employees and contractor employees. In developing this cycle, the Company ensures that it incorporates into its management the perceptions and expectations of its stakeholders, especially those who may be more vulnerable. Given that some of the areas where Ecopetrol operates are affected by conflict. a situation that increases the risk for the Company, its suppliers, partners and other parties with whom it has a relationship, of becoming involved in human rights abuses, Ecopetrol will intensify its due diligence actions and foster their implementation across its value chain.

Continue to next page

Hocol

Petroleum Limited

The Company identifies security and public order risks for its areas of operation. In following with the fact that security, understood as the keeping of order, peace and the enjoyment of rights, is the responsibility of the State and consequently inherent to its social purpose. Given that the Public Force is in charge of fulfilling this role, security matters are handled through agreements therewith, through physical and electronic security schemes, procedures and protocols.

The company complies with all local, state, and federal laws, including laws related to human rights. The policies and procedures with respect to human rights can be found in the following Company documents: See Code of Ethics and Conduct pages 6, 14 - 15, 19, 23 in reference to the Company's human rights, labor, and nondiscrimination standards. See Code of Ethics and Conduct pages 15-16 in reference to reporting any violations of the policies and standards therein. See Employee Handbook page 10 in reference to nondiscrimination standards. See Employee Handbook pages 14-20 in reference to the reporting and disciplinary action procedures for violations of policies therein. The Company does not operate within areas of conflict.

Ecopetrol

Permian

2021

Hocol respects the rights to ethnic and cultural diversity. It recognizes the right of indigenous peoples, Afro-Colombians and ethnic minorities to be consulted on projects, works or activities that may directly affect them, as established in ILO onvention 169. Hocol has mechanisms in place to optimally manage requests, complaints and claims filed in connection with its activities, which results in the prevention of conflict and improved relations with stakeholders.

Hocol is committed to the respect of human rights, adopted and followed by its enior level management of the company, and set forth in its Code of Ethics and Conduct. Respecting human rights implies acting with due diligence to avoid negative impacts on human rights and to ensure their respect within the framework of operations and business activities. This includes compliance with regulations on ecent work, fair labor practices, prohibition of forced or child labor, and adopting measures to prevent all forms of discrimination. Hocol has voluntarily subscribed to the United Nations Global Compact, and also seeks to make significant contributions to the advancement of the SDGs, and achieve international standards of corporate due diligence based on the United Nations Guiding Principles on Business and Human Rights (UNGPs).

Ecopetrol Permian The Company does not operate, nor does it intend to operate, within or near indigenous communities.

Information not available for 2021

Code	EM-EP-210b.1
Accounting Metric	Discussion of process to manage risks and opportunities associated with community rights and interests
Unit of measure	Discussion and analysis
	2021
Ecopetrol S.A.	Ecopetrol has prioritized exceptional material elements, including Climate Change, Integrated Water Management and Local Development.
	Local Development is one of the exceptional material elements prioritized within Ecopetrol; that is, it aims to be the best practice and for its management to be recognized worldwide for the generation of proprietary knowledge and technology, which enables such development in its areas of influence. This translates into Ecopetrol's commitment to improve the quality of life in the prioritized areas, consolidating high levels of confidence in territories of influence, by attaining three [3] objectives: i . Closing socio-economic gaps; ii . Reducing social conflict factors; iii . Obtaining social license in terms of trust and identity. In order to increase the Group's operational execution capacity, achieve excellent environmental performance levels across all Company processes and become a positive transformation agent, attracting alliances, resources and generating sustainable development in its areas of influence the adaptation and contribution to the improvement of environmental conditions is essential. It is considered a material element due to the potential to generate value, its relevance to stakeholders and its alignment with Ecopetrol's Culture Declaration.
Hocol Petroleum	References for procedures:
imited	 Values and Fundamentals: Pioneering, Human and Reliable
	 Relationship Principles: The Company conducts all its activities within a sustainable development framework that prioritizes the preservation of health, the physical integrity of people and society in general, as well as the protection of assets and the environment.
	Good Governance Code.
	 Social Management Processes: Coordination and Social Strategy, Socioeconomic and Cultural Impacts, Prior Consultation, Operations Support, IPQR (for its acronym in Spanish- concerns, petitions, complaints and claims), Social Investment and Social Incidents.
	 Regulatory Framework: Environmental License (Environmental Management Plans - ANLA), Community Benefit Programs (ANH), Indigenous Prior Consultation (Ministry of the Interior Law 21/91 - ILO Dec. 169), Environmental Management Measures (Regional Autonomous Corporations).
	 Social Investment Procedure: The purpose of this Social Investment Procedure is to establish the mechanisms that ensure the criteria and activities required for the adequate management of Hocol S.A.'s social investment: Social Capital, Economic Development, Environmental Sustainability, Infrastructure and Community Equipment and Transversal (Differential Approach).
	 IPQR Procedure: The purpose of this procedure is to define the ideal mechanism that allows for optimal management of IPQR, whose compliance ensures the timely, clear and thorough response to the concerns, requests, complaints and claims submitted to Hocol.
	Hocol Policies: Social Responsibility, Sustainability and Procurement of goods and services.
Ecopetrol Permian	The Company is not an operator, but generally, the Company's community standards can be found in the Code of Ethics and Conduct pages 14-15, 19.
Ecopetrol America LLC	The Company is not an operator and, as an offshore company, does not work near communities.
Ecopetrol Óleo e Gas do Brasil	Information not available for 2021.

Code	EM-EF
Accounting Metric	(1) Nu
Unit of measure	Numb

Accounting metric Unit of measure Ecopetrol S.A. Hocol Petroleum Limited Ecopetrol Permian LLC Ecopetrol America LLC

Ecopetrol Óleo e Gas do Brasil

	202	2020		
Accounting metric	(1)	(2)		
Unit of measure	Number	Days		
Ecopetrol S.A.	Information not a	vailable for 2020		
Hocol Petroleum Limited	2	3		



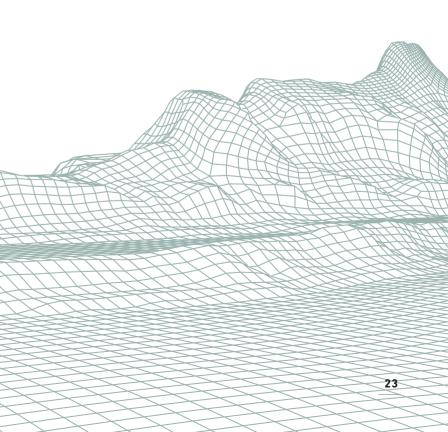
EP-210b.2

umber and (2)duration of non-technical delays

ber, days

2021	
(1)	(2)
Number	Days
7 ¹	217
2 ²	84
-	-
-	-
Not a	pply
	(1) Number 71 22 -

¹ During 2021 seven (7) incidents associated with the National Strike were reported that affected operations in the Caño Sur, Churuyaco, La Jagua, Loro, Quriyaná, San Antonio and Acae San Miguel fields. ² During 2021 two (2) incidents were reported that affected operations in the production fields of Ocelote in the municipality of Puerto Gaitán (Meta) and Ortega Tetuán in the municipalities of Ortega and San Luis (Tolima).



HUMAN CAPITAL

Workforce Health and Safety

Code	EM-EP-320a.1
Accounting Metric	(1) Total recordable incident rate (TRIR), (2) fatality rate, (3) near miss frequency rate (NMFR), and (4) average hours of health, safety, and emergency response training for (a) full-time employees, (b) contract employees and (c) short-service employees
Unit of measure	Rate, hours (h)

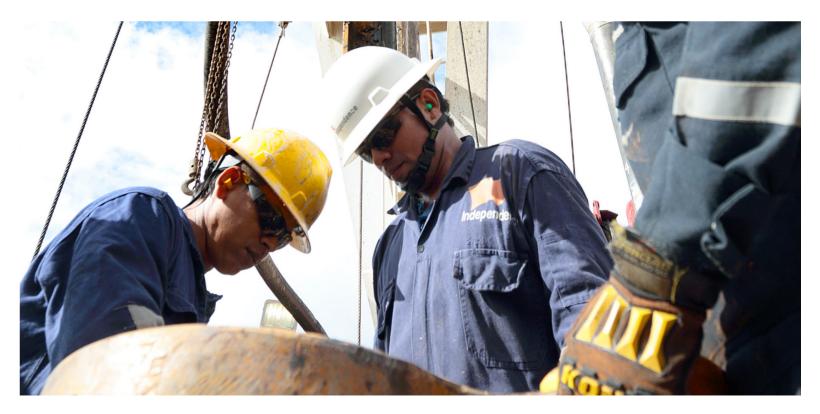
2021 Accounting metric (1) (2) (3) (4) Unit of measure Rate Rate Rate Hours Ecopetrol S.A.¹ (a) Information not (a) Information not (a) 0,37 (a) available for 2021 available for 2021 (b) Information not (b) Information not (b) 0,46 (b) available for 2021 available for 2021 (c) Information not (c) Information not (c) Information not (c) Information not available for 2021 available for 2021 available for 2021 available for 2021 Total: Information Total: Information Total: 0,44 Total: not available for 2021 not available for 2021 Hocol Petroleum (a) Information not (a) -(a) -(a) 6,69 Limited available for 2021 (b) Information not (b) 0,24 (b) -(b) available for 2021 (c) Information not (c) -(c) -(c) available for 2021 Total: Information Total: 0,19 Total: -Total: 6,69 not available for 2021 Ecopetrol (a) -(a) -(a) -(a) 2,73 . Permian LLC (b) -(b) -(b) -(b) -(c) -(c) -(c) -(c) -Total: -Total: -Total: -Total: 2,73 Ecopetrol (a) -(a) -(a) -(a) 0,26 America LLC² (b) -(b) -(b) -(b) -(c) -(c) -(c) -(c) -Total: -Total: -Total: -Total: 0,26 Ecopetrol Óleo (a) 0,08 e Gas do Brasil (b) 0,21 Not apply Not apply Not apply (c) 0 Total: 0,12

¹ Ecopetrol S.A. measures TRIF, an indicator for recordable injuries (fatalities, lost time, accidents, medical treatment and restricted work) according to OSHA standard, which is the standard used in the Oil & Gas sector. The rate is calculated by taking one million hours as a constant variable. ² Ecopetrol America utilizes the OSHA definition to classify and identify near misses. Ecopetrol America utilizes a Initial Incident Report form that the HSE Manager reviews and classifies all incidents based on the OSHA incident definitions

Accounting metric Rat Unit of measure (a) 0 Ecopetrol S.A.¹ (b) 0 (c) Information available

Hocol Petroleum Limited

(c) Information available



	20	20	
(1)	(2)	(3) ²	(4)
Rate	Rate	Rate	Hours
(a) 0,13	(a) 0,01	(a) 0,21	(a) 7,66
(b) 0,06	(b) -	(b) 0,01	(b) 32,45 h
Information not vailable for 2020	(c) Information not available for 2020	(c) Information not available for 2020	(c) Information not available for 2020
Total: 0,07	Total: -	Total: 0,05	Total: 26,91 h
(a) -	(a) -	(a) -	(a) Information not available for 2021
(b) 0,12	(b) -	(b) -	(b) Information not available for 2021
Information not vailable for 2020	(c) Information not available for 2020	(c) Information not available for 2020	(c) Information not available for 2020
Total: 0,09	Total: -	Total: -	Total: No disponible en 2020

¹ Ecopetrol S.A. measures TRIF, an indicator for recordable injuries (fatalities, lost time, accidents, medical treatment and restricted work) according to OSHA standard, which is the standard used in the Oil & Gas sector.
² The NMFR was calculated by weighting the accident rate and hours worked for employees and contractors.

Code	EM-EP-320a.2	BUSINESS MOI	DEL AND INNOVAT	ION		
ccounting Metric	Discussion of management systems used to integrate a culture of safety throughout the exploration and production lifecycle	Reserves Valuation	& Capital Expenditures			
Jnit of measure	Discussion and analysis					
		Code	EM-EP-420a.1			
	2021	Accounting Metric	Sensitivity of hydrocarbon account for a price on car		price projection sce	enarios that
Ecopetrol S.A.	Ecopetrol S.A. uses the HSE Management System to establish the necessary elements under which the company manages risks.	Unit of measure	Million barrels (MMbbls),	Million standard cubic f	eet (MMscf)	
	The system consists of the development of a logical and staged process, based on continuous improvement and includes culture, leadership, policy, organization, planning, implementation, evaluation, auditing and improvement actions with the			2021		
	aim of anticipating, recognizing, evaluating and controlling risks that may affect	Accounting metric	(1)	(2)	(3)	(4)
	safety, occupational health and the environment.	Unit of measure	MMbbls	Bscf ¹	MMbbls	MMscf
	The HSE management system is comprised of 22 sub-elements, each of which defines the principle, the basic requirements for implementation, and in turn, provides with the descent of the basic requirements for th	Grupo Empresarial Ecopetrol (Ecopetrol, Ho Permian y America) ²	ocol, reserve levels, aligne	on the analysis of sensit d with the scenarios pre ill be reported in the nex	esented in the TCFD	and 20-F
	guidance on the documents detailing the application of the basic requirements.	Ecopetrol Óleo e Gas	Not apply for 2021.			
Hocol Petroleum Limited	Ensure strict compliance with Colombian regulations.	do Brasil				
Linned	 Continue strengthening operational leadership, associated with clean and safe operations. 	¹ Reported in Bscf (Billions of cu	ubic feet) onducted a sensitivity analysis on oil an	d and recorded as of Decombor	21 2021 based on Pront	anuda ail pricas
	Rigorous Operational Discipline on all work fronts.	Brent crude oil prices. The sens	sitivity analysis assumes a constant ICE	Brent price of US\$ 76 per barr	el in 2022, between US\$ 6	52 and US\$ 68 per
	 Ensure early identification of acts, substandard conditions and address them in a timely manner. 	analysis is performed correspon	, and between US\$ 60 and US\$ 63 there nds to 82% of oil, NGL and natural gas r nanagement remain unchanged for the	reserves, as of December 31, 20		
	• Provide follow-up, support, assistance and assurances to operations and work fronts, with visits from the leadership team, management and cross inspections.					
	 The company uses the Balanced Scoreboard (BSC) to evaluate the performance of workers in Occupational Health and Safety (OSH) related issues. 			2020		
	Monitor workers' health conditions.	Accounting metric				
	Monitor workplace conditions.	Unit of measure	MMbbls			
	 Collect information to determine whether hazard and risk prevention and control measures are implemented and effective. 	Ecopetrol S.A.		at considers scenarios a ported in the next annua	, ,	sis is being
	Analyze the result of OSH indicators and previous OSH audits.	Hocol Petroleum Limite	ed		-	
	 The OSHMS meets the overall OSH needs of the company. 					
Ecopetrol Permian LLC	Following management systems are some examples that have been implemented by the operator:					
	Safety Observations	Code	EM-EP-420a.2			
	Field personnel are encouraged to provide observations of unsafe	Accounting Metric	Estimated carbon dioxide	emissions embedded in	proved hydrocarbo	n reserves
		Unit of measure	Metric tons tonCO ₂ e			
	work conditions/situations. These are recorded in a system and action/ improvements are made.					
	 work conditions/situations. These are recorded in a system and action/ improvements are made. Safety Orientation for all employees/contractors working/visiting the field (including H2S training etc). 					
	 improvements are made. Safety Orientation for all employees/contractors working/visiting the field (including H2S training etc). Ecopetrol America's work force is mainly office based personnel and thus a 				2021	1
	 improvements are made. Safety Orientation for all employees/contractors working/visiting the field (including H2S training etc). Ecopetrol America's work force is mainly office based personnel and thus a Management System is not required but certain aspects of a HSE management 	Accounting metric				
Ecopetrol America LLC	 improvements are made. Safety Orientation for all employees/contractors working/visiting the field (including H2S training etc). Ecopetrol America's work force is mainly office based personnel and thus a 	Unit of measure			tonCO	2 e
	 improvements are made. Safety Orientation for all employees/contractors working/visiting the field (including H2S training etc). Ecopetrol America's work force is mainly office based personnel and thus a Management System is not required but certain aspects of a HSE management system are utilized to ensure a safe workplace for all employees. For all Joint 	Unit of measure Ecopetrol S.A.			tonCO 686.397.0	2 e 173,28
America LLC	 improvements are made. Safety Orientation for all employees/contractors working/visiting the field (including H2S training etc). Ecopetrol America's work force is mainly office based personnel and thus a Management System is not required but certain aspects of a HSE management system are utilized to ensure a safe workplace for all employees. For all Joint Venture operations, Ecopetrol ensures that the Operator of Record has in place the required HSE Management System (SEMS), prior to start of operations. 	Unit of measure Ecopetrol S.A. Hocol Petroleum Limite			tonCO 686.397.0 Information not ava	2 e 173,28 ailable for 2021
	 improvements are made. Safety Orientation for all employees/contractors working/visiting the field (including H2S training etc). Ecopetrol America's work force is mainly office based personnel and thus a Management System is not required but certain aspects of a HSE management system are utilized to ensure a safe workplace for all employees. For all Joint Venture operations, Ecopetrol ensures that the Operator of Record has in place the 	Unit of measure Ecopetrol S.A.			tonCO 686.397.0	2e 173,28 ailable for 2021 ailable for 2021

¹ The information requested for proven reserves in gigagrams, net calorific value in terajoules per gigagram and the effective carbon dioxide emission factor are not parameters estimated by Hocol. Hocol's volumetric calculation methodology for estimating reserves (current SEC regulations) does not consider the estimation of these parameters. Hocol does not have an approved methodology to meet this request.

Accounting metric	
Unit of measure	tonCO2e
Ecopetrol S.A.	0,72
Hocol Petroleum Limited	Information not available for 2020

Code	EM-EP-420a.3
Accounting Metric	(1) Amount invested in renewable energy, (2) revenue generated by renewable energy sales
Unit of measure	Reporting currency

	2021		
Accounting metric	(1)	(2)	
Unit of measure	COP \$	COP \$	
Ecopetrol S.A.	15.447 millions		
Hocol Petroleum Limited	742 millions	-	
Ecopetrol Permian LLC			
Ecopetrol America LLC ¹	-	-	
Ecopetrol Óleo e Gas do Brasil			

¹ Ecopetrol America does not have any investment in renewable energy in the US-GOM

	2020	
Accounting metric	(1)	(2)
Unit of measure	COP \$	COP \$
Ecopetrol S.A.	6.749 millions	
Hocol Petroleum Limited	656 millions	



Code	EM-EP-
Accounting Metric	Discuss influend develop
Unit of measure	Discuss

Limited

Hocol

Ecopetrol S.A. Hocol Petroleum Ecopetrol Permian LLC Ecopetrol America LLC Ecopetrol Óleo e Gas do Brasil

20% of the plan's investments will be allocated to the execution of ISA's projects in Colombia and internationally in the energy transmission, toll roads and telecommunications businesses.

In terms of Unconventional Reservoirs, investments of more than USD \$700 million are planned, to continue the growth of production activities in the Permian basin in Texas, USA, while investments in the amount of USD \$20 million will be made in the Kalé and Platero Integral Research Pilot Projects located in the Middle Magdalena Valley.

In line with the Group's energy transition and TESG objectives, close to USD \$50 million will be invested in the decarbonization agenda during 2022, including new competitive renewable energy and gas use projects, which are an integral part of the roadmap designed to move towards the goal of reducing CO2 equivalent emissions by 25% by 2030, and be a net zero-emissions company by 2030. In addition, the plan includes investments of more than USD \$200 million in water management projects, close to USD \$30 million in projects to continue improving fuel guality, and investments of USD \$6 million in the development of pilot projects and green and blue hydrogen studies for applications in refineries and mobility, among others.

Petroleum Limited

-420a.4

sion of how price and demand for hydrocarbons and/or climate regulation ice the capital expenditure strategy for exploration, acquisition, and pment of assets

sion and analysis

2021

In 2022, the Ecopetrol Group presented its 2040 Strategy, which includes four (4) key drivers i) Grow with Energy Transition; ii) Generate Value through TESG; iii) Cuttingedge knowledge; iv) Competitive Returns

In addition, it updated its business plan for the 2022-2024 period, which focuses on the profitable growth of production within the framework of the strategy and continuity set forth in Interconexión Eléctrica S.A.'s (ISA) 2030 Strategic Plan.

The plan calls for organic investments by 2022 in the amount of between USD 4,800 million to USD \$5,800 million. Seventy percent of the investments will be allocated to projects in Colombia, and the remaining 30% to projects in the United States (14%), Brazil (8%), Peru (5%) and Chile (3%).

The plan's objective continues to focus on growing the exploration and production (E&P) business, to which 63% of investments will be allocated, specifically on projects with a greater production and reserve contribution, as well as in enhanced recovery technologies. These projects incorporate the cost of GHG emissions in their economic evaluation, calculated using the CO2 shadow price methodology.

In line with the Ecopetrol Group's strategy and capital discipline criteria, efforts focused on the evaluation and execution of businesses that allowed for portfolio rotation and optimization. This effort continued despite the challenges imposed by the environment, especially in relation to the behavior of crude oil prices and the new demand projections impacted by the COVID 19 pandemic, associated with declining economic indicators.

LEADERSHIP AND GOVERNANCE

Business Ethics & Transparency

Code	EM-EP-510a.1
Accounting Metric	Percentage of (1) proved and (2) probable reserves in countries that have the 20 lowest rankings in Transparency International's Corruption Perception Index
Unit of measure	Percentage (%)

	2021		
Accounting metric	(1)	(2)	
Unit of measure	%	%	
Ecopetrol S.A.	-	-	
Hocol Petroleum Limited	-	-	
Ecopetrol Permian LLC	-	-	
Ecopetrol America LLC	-	-	
Ecopetrol Óleo e Gas do Brasil	-	-	

	20	20
Accounting metric	(1)	(2)
Unit of measure	%	%
Ecopetrol S.A.	-	-
Hocol Petroleum Limited	-	-

Code	EM-EP-510a.2
Accounting Metric	Description of the management system for prevention of corruption and bribery throughout the value chain
Unit of measure	Discussion and analysis

Ecopetrol S.A Ecopetrol and Ecopetrol Group have a Comprehensive Policy that includes ethics and transparency among its main pillars. Ecopetrol's ethics and compliance strategy is based on a Compliance Program, whose aim is the ethical and integral behavior of senior management, employees, beneficiaries, contractors, suppliers, partners and other related parties, assuming special responsibility for the company's internal control. The Code of Ethics and Conduct is the pillar of the Compliance Program.

> The Code expressly rejects any acts of money laundering, financing of terrorism, fraud, bribery and corruption in all its forms (FCPA violations, transnational bribery, gifts, entertainment and hospitality, conflicts of interest, facilitation payments), lobbying, political contributions, antitrust and anticompetitive practices, among other statements. Unethical conduct is not tolerated at all.

> The Code of Ethics and Conduct also contains higher mandatory guidelines that specifically include the rejection of any form of discrimination or sexual harassment in the workplace, and the fostering of social responsibility and respect for human rights.

The Compliance Program also meets the laws, regulations, guidelines and best practices for the fight against corruption, fraud, bribery, money laundering and financing of terrorism.

Continue to next page

Hocol Petroleum Limited

Detection and Response: Hocol's ethical channel for dealing with gueries and complaints regarding acts related to fraud, corruption, money laundering, bribery, financing of terrorism, financing the proliferation of weapons of mass destruction and all conduct that goes against the provisions of the company's code of ethics and conduct.

Continuous monitoring of all counterparties, operations and processes of the company that have risks associated with corruption, bribery, LAFT/FPADM.

Continuous improvement: periodic updates on standards, guidelines, procedures, manuals, instructions, according to national and international standards applicable to companies with respect to risk management of corruption, bribery, ML/FT/FT/FPDAM.

Participation in initiatives such as EITI and GLOBAL PACT that generate best practices in relation to business ethics and transparency programs.

Ecopetrol Permian LLC

Ecopetrol America LLC

Ecopetrol Óleo

e Gas do Brasil

Preventive monitoring: Binding and restrictive lists, relevant news from subsidiaries not included in restrictive lists, politically exposed persons, information on employees, third party intermediaries, potential conflicts of interest, payments to restricted or high-risk jurisdictions, credit card payments, payments not associated with a contract;

Money Laundering Policies can be reported Ecopetrol Brasil is aligned with the principles and procedures of the Ecopetrol Group to operate safely, responsible and reliable; The Company respects and value the staff and contractors; how the Company work with the joint venture partners and suppliers; protecting the value of our projects; and working with governments and communities, including our commitment to human rights. The anti bribery, ethics and compliance codes applies to all employees, officers and members of the board. Ecopetrol Brasil provides contractors with the codes and

procedures with regards to anti bribery. ethics and compliance and expects and encourages the contractors and the employees to act in a way that is consistent with the Company's code and take appropriate actions where the Company believes they have not met the expectations or their contractual obligations. Ecopetrol Brasil periodically provides the employees with anti-bribery, ethics and compliance training and communications on how to apply the code's principles, in order to align general principles and seek transparency. Ecopetrol Brasil complies with international and national laws and regulation regarding compliance and ethics in Brazil, as well as is aligned with ethics and compliance business and principles of the Ecopetrol Group.

2021

Hocol develops all its actions aimed at managing corruption, bribery and ML/FT/ FPDAM risks, within the framework of its business ethics program, which defines the following activities, among others:

Prevention: training and communications aimed at all levels of the company and related third parties such as customers, partners, allies, suppliers and contractors.

Periodic risk management cycles where potential risks and the controls defined to mitigate them are evaluated.

Procedures to obtain information on counterparties through due diligence carried out by Hocol's Procurement area.

Code of Ethics & Conduct: adopted by the Board of Directors of Ecopetrol USA, Inc. on February 4th 2021;

Policy: Anticorruption Policy, Antifraud Policy, AML/FT Policy Controls: 19 Anticorruption controls, 16 Antibribery controls, 96 Antifraud controls, 19 AML/FT/FPADM controls;

Ethics Hotline: third-party outsourced reporting system where violations to the Code of Ethics & Conduct, Anti-Corruption Policy & Guidelines, Anti-Fraud or Anti-

The Company has an specific channel ""Línea Ética"", in order to facilitate and collaborate with compliance matters and to investigate and cure any inappropriate situation not aligned with our codes and principles.

Management of the Legal & Regulatory Environment

Code	EM-EP-530a.1	
Accounting Metric	Discussion of corporate positions related to government regulations and/or policy	
	proposals that address environmental and social factors affecting the industry	
Init of measure	Discussion and analysis	
	2021	Ecopetrol
Ecopetrol S.A.	Ecopetrol articulates its climate change strategy with the National Government's public policy and contributes to the construction of technical and regulatory guidelines to strengthen the country's institutional capacity in terms of climate change.	America LLC
	In 2021, Ecopetrol participated in the work groups for the construction of the following documents, regulations and strategies associated with climate change: (i) Colombia's Long Term Climate Strategy E2050, (ii) Updated Comprehensive Climate Change Management Plan for the Mines and Energy sector, (iii) Climate Action Law, (iv) Conpes document: "Public policy to reduce disaster risk conditions and adapt to climate variability phenomena", (v) Energy Transition Law and fostering of non-conventional energy sources, (vi) Hydrogen Roadmap for Colombia, and (vii) Proposed resolution for the regulation of fugitive emissions, venting and gas flaring. Additionally, the Company adhered to the Net-zero Carbon Program led by the Ministry of the Environment and Sustainable Development and	
	signed a Voluntary Agreement with the Ministry of Mines and Energy to promote net-zero carbon and climate resilience in the hydrocarbon sector. Regarding global initiatives, the company is a member of the Climate and Clean Air Coalition (CCAC) led by the United Nations, the International Petroleum Industry Environmental Conservation Association (IPIECA), Zero Routine Flaring by 2030, an	
Hocol Petroleum Limited	Hocol has designed a net-zero carbon management system based on the Sustainable Development Strategy, which seeks to provide low-emission clean energy through a decarbonization plan that includes efficient management in the detection, handling and use of leaks and venting, reduction of flaring,	
	implementation of energy efficiency strategies across all operations, and the use of renewable energies. To achieve net-zero carbon, emissions offsetting projects will be developed in the regions of influence.	Ecopetrol Óleo e Gas do Brasil
	Hocol plays an active role in the consultation phases of the regulations developed by the competent entities regarding net-zero carbon and guarantees strict compliance with existing requirements. Additionally, it is a participant in trade association programs such as Naturgas or the National Net-zero Carbon Program of the Ministry of the Environment and Sustainable Development, through which	
	it seeks to strengthen the transfer of knowledge, guarantee compliance with the organization's goals, and contribute to sector and national goals.	
Ecopetrol Permian LLC	Ecopetrol Permian (EP) is a Non-Operator in its onshore activities and relies on the Operator to conduct operations in compliance with all existing environmental or social factor rules and regulations affecting the oil and gas industry. In conducting its operations, the Operator must abide by all local, state, and federal rules and regulations and it must adjust to shifts and changes of the legal and regulatory	
	environment. Texas oil and gas activity is regulated primarily by the Texas Railroad Commission and the Texas Commission on Environmental Quality. The Texas legislature creates the laws affecting the Texas oil and gas industry. The courts of Texas interpret those laws and regulations across several counties and districts, which carries the inherent risk of producing ever-changing case law.	
	EP has forged a successful relationship with an experienced and reputable Operator in its venture in order to manage the risks associated with this legal and regulatory environment. The risks and opportunities of any proposed activity are evaluated by diligent professionals before the activity can proceed.	

Continue to next page

2021

The overall strategy by EP, as a Non-Operator, to manage risks and opportunities associated with the legal and regulatory environment is to continue maintaining relationships with knowledgeable operators that are committed to the best industry practices in conjunction with the best legal practices. The venture enjoys the highest level of guidance from its legal counsel, land experts, and other professionals when navigating the legal and regulatory environment

Finally, the American legal system guarantees the independence of the judicial branch and therefore protects the rights and guarantees of individuals, companies and governmental entities.

Ecopetrol America (EA) is a Non-Operator in all of its Gulf of Mexico (GOM) operations and relies on the Operator to conduct all operations in compliance with all existing environmental or social factor rules and regulations in effect for the GOM. The primary governmental agency overseeing operations in the GOM is the Bureau of Safety and Environmental Enforcement (BSEE). Operator's duty to its Non-Operators to comply with these rules and regulations is also a requirement contained in the Operating Agreement.On 1/227/22 a Federal Judge issued a ruling that does represent a threat to GOM focused oil companies. The judge ruled with regard to GOM Lease Sale 257 that was held in Nov., 2021, that the federal agency errored in its environmental impact determination of Sale 257. The Court held that it will vacate the Record of Decision for Lease Sale 257, and the action taken based on the Record of Decision, including Lease Sale 257, and remand it to the agency for further proceedings.

Operator must design its wells not only to the safety standards as required by BSEE, but also to meet industry acceptable standards to satisfy its Non-Operator co-owners. Well plans and well schematics are part of every well proposal and pre-spud meetings are held with co-owners to discuss operational, safety and environmental aspects of the planned wells. New reporting requirements include Non-Operators reporting their share of Green House Gas emissions.

The overall strategy by EA to manage risks and opportunities associated with the legal and regulatory environment is for EA to establish 'best relationships' with the Operator, particularly among the respective company's drilling and operational personnel, as well as its mid-level and upper management. Operator's hold frequent partner meetings to discuss planned operations and best field development strategies.

The way the Company interacts with governments depends on the legal and regulatory framework in each country. Ecopetrol Brasil has a legal and regulatory rules mapping considering the main risks of Brazil. The Company engage across a range of issues relevant to our business, from compliance with regulation to understanding the Brazil's tax framework to collaborating on social initiatives. The Company engages with governments authorities and also with Brazilian Petroleum, Natural Gas and Bio fuels Institute (IBP) in order to mitigate the major industry regulatory, tax and legal risks for the E&P industry.

The Company engages with Brazilian Petroleum and Natural Gas and Bio fuels Institute (IBP) in order to mitigate the environmental and social factors affecting the E&P industry, as well as with the Joint venture partners for our projects as Non Operators. Ecopetrol Brasil has a periodically follow up on the rules and legislation regarding the legal and regulatory framework for Brasil E&P activities in order to manage main risks. Furthermore, Ecopetrol Brasil participates in the monthly Committees' meetings regarding relevant matters for the industry, as Local Content, Tax and Accounting regulation and Legal/Regulatory aspects. In addition, the Company has meetings with governmental authorities (such as Ministry of Mines and Energy - MME, National Agency of Petroleum, Natural Gas and Biofuels - ANP and others) in order to discuss relevant topics needed for our activities in Brazil.

Ecopetrol Brasil actively participates, through governmental authorities (Ministry of Mines and Energy - MME, National Agency of Petroleum, Natural Gas and Biofuels - ANP and others) of the discussions involving the main topics of the E&P industry, including changing in legislation and regulatory framework, as well as public audiences from ANP. In addition, Ecopetrol is associated with IBP, a major brazilian E&P forum for the industry. In this sense, Ecopetrol Brasil participates in the monthly Committees' meetings regarding relevant matters for the industry, as Local Content, Tax and Accounting regulation and Legal/Regulatory aspects.

Critical Incident Risk Management

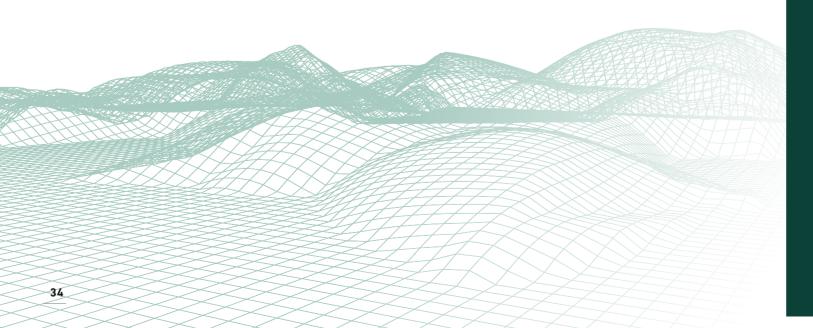
Code	EM-EP-540a.1
Accounting Metric	(1) Process Safety Event (PSE) rates for Loss of Primary Containment (LOPC) of greater consequence (Tier 1)
Unit of measure	Rate

	2021
Accounting metric	
Unit of measure	Rate
Ecopetrol S.A.	0,03 ¹
Hocol Petroleum Limited	-
Ecopetrol Permian LLC	-
Ecopetrol America LLC	-
Ecopetrol Óleo e Gas do Brasil	Not apply

¹ The multiplying factor of 1,000,000 is used, according to API 754 International Standard

	2020
Accounting metric	
Unit of measure	Rate
Ecopetrol S.A.	0,05
Hocol Petroleum Limited	0,23

The multiplying factor of 1,000,000 is used, according to API 754 International Standard



Code
Accounting Metr
Unit of measure
Ecopetrol S.A.
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Ecopet

Americ

P-540a.2

ption of management systems used to identify and mitigate catastrophic il-end risks

sion and analysis

2021

m of Process Safety is to achieve the best operational performance possible, ressing major technological risks, through the application of necessary ures and actions for the prevention and mitigation of the release of hazardous inces or energy. The impact of these measures lies in a reduction of ional and occupational accidents, with the potential occurrence of a major nt or disaster, thus providing an effective management framework for trol's operations and demonstrating the commitment to the first principle of ltural Declaration, Life First.

as Safety is classified as a leading element in Ecopetrol's TESG 2040 Strategy. trol's ambition is to become a global benchmark in industrial safety, adopting ractices and developing operations under tolerable levels of Process Safety o achieve this, the Company works on four (4) fronts:

onsistency, commitment and visible leadership in process safety.

isk-based process safety management.

rend analysis and learning from experience.

merging risk management.

ocol implemented SAHARA, a tool through which it automated its Risk ent System through a solution that allows for the automatic management of ent stages of the risk cycle across all Company's risk fronts (business, project s, process safety and operational and/or corporate activities) using a single This makes it easier for senior management and risk owners at all levels their risks and establish actions to address the behavior of each of the risk nin the organization. SAHARA generates heat maps for both inherent and risks. The solution automatically calculates the effectiveness of each of the more than 370 controls) associated with the existing risks across all company and facilitates the monitoring of risks by sending automatic alerts to the rs when the actions established are close to reaching their expiration date or have expired. Automatic alerts are generated when Risk Indicators or KRI's e the defined thresholds. This allows Senior Management, process owners, anyone who is conducting the activity, to take timely actions for avoiding the ation of the alerted risks. The tool also has a content analytics module where sary reports for an adequate risk management can be found. The tool allows nloading of a comprehensive report containing all of Hocol's process risks.

ing management systems are some examples that have been implemented operator :

HAZOPS/What IFs conducted prior to construction.

PSSR/Commissioning prior to facility startup.

MOC process in place for any change.

Daily JSAs (job safety analysis)

RCFA - Root Cause Failure Analysis

Permit to work

Pre JSA

Well control training and certification

etrol America's work force is mainly office based personnel and thus a igement System is not required but certain aspects of a HSE management m are utilized to ensure a safe workplace for all employees. For all Joint ire operations, Ecopetrol ensures that the Operator of Record has in place the red HSE Management System (SEMS), prior to start of operations.

EXTRACTIVES & MINERALS PROCESSING SECTOR



ACTIVITY METRICS

Code	EM-M
Accounting Metric	Total ı petrol
Unit of measure	Thous

Accounting Metric¹ Unit of measure

Cenit transporte y logística de hid Oleoducto Central S.A.S (Ocensa) Oleoducto Bicentenario de Colom Oleoducto de los Llanos Orientale Oleoducto de Colombia S. A. (ODO Promotora de Gases del Sur S.A.

per day" as the reference unit for the transport of hydrocarbons. ² Total barrels transported through Segment 2 (current segment). Distributors (IF-GU) category.



Oleoducto de Colombia



ODi





Accounting metric¹ Unit of measure Cenit Ocensa OBC ODL ODC

¹ For 2020, the figures are reported in barrels transported daily as it is the most used unit of measure in the oil and gas industry.

1D-000.A

metric ton-kilometers of: (1) natural gas, (2) crude oil, and (3) refined leum products transported, by mode of transport

sands of barrels per day (Mbbls/day), tons per day (ton/day)

	2021			
	(1)	(2)	(3)	
	ton/day	Mbbls/day Pipeline	Mbbls/day Polyduct	
drocarburos S.A.S. (Cenit)	-	268,26	267,55	
]2	-	537,35	-	
nbia S.A.S. (OBC)	-	20,80	-	
es S. A. (ODL)	-	196,20	-	
C)	-	187,23	-	
. E.S.P. (Progasur)³	4.701	-	-	
			·	

¹ Total metric ton-kilometers of: [1] natural gas, [2] crude oil, and [3] refined petroleum products transported, by mode of transport

The unit SASB recommends is "metric ton-kilometer transported". However, most companies in the subsector use "thousands of barrels transported

³ Progasur is a natural gas transport company whose primary activity is the operation of gas pipelines related to the transport of gas from production fields to distribution systems. Consequently, in addition to the Midstream metrics (EM-MD), it reports certain metrics in the Gas Utilities and

2020			
(1)	(2)	(3)	
ton/day	Mbbls/day Pipeline	Mbbls/day Polyduct	
-	268	231	
-	561	-	
-	10,50	-	
-	210,80	-	
-	189	-	

ENVIRONMENT

Progasur

Greenhouse Gas Emissions

Code	EM-MD-110a.1			
Accounting Metric	(1) Gross global Scope 1 emissions, (2) perconnections under emissions-limiting regulations	centage meth	nane, (3) pe	ercentage covered
Unit of measure	Metric tons (tonCO $_{\rm 2}$ e) , percentage (%)			
			2021	
Accounting Metric	(1))	(2)	(3) ¹
Unit of measure	tonCC	0 ₂ e	%	%
Cenit	136.7	757	0,53	Not apply
Ocensa	301.8	317 ²	1,79	Not apply
OBC	1.484,	,06 ³	67,58	Not apply
ODL	18.276,	,70 ^{3,4}	12,90	Not apply
ODC	37.68	80	0,53	Not apply

Not apply

¹ The percentage covered under the regulations limiting GHG emissions is not applicable herein, because there is no regulation in Colombia related to said emissions (or the methane emitted).

1466

-

² To calculate GHG emissions, the GHG protocol and the ISO 14064-1:2006 standard are used as methodological tools, using the emission factors methodology for the calculation considering the preliminary activity data of the operations area obtained from the direct measurements of consumption made by the area.

The fuel emission factors have been taken from the Mining and Energy Planning Unit using its Emission Factors of Colombian Fuels calculator (FECOC, 2016) and others from the IPCC. The 2020 emission factor for electricity is used considering that the 2021 update of said factor has not been published to date. All global warming potential values (GWP) from the IPCC ARS Report are used.

Additionally, the Ministry of the Environment and Sustainable Development bestowed the Company recognition for pledging to establish goals and voluntary commitments to reduce GHG emissions within the framework of the National Carbon Neutrality Plan.

³ The estimate of GHG emissions is done following the standards of the GHG Protocol, the NTC ISO 14064-1:2006 and considering the methodologies suggested in reference documents such as the API Specifications 2006. In general, emissions under Scope 1 are categorized as: combustion in fixed sources, process venting, fugitive emissions, flaring (not applicable) and mobile combustion sources. The emission of the three (3) predominant gases in the Oil and Gas industry is estimated under the guidelines of API Specifications 2006. The emission factors used are mostly referenced in this same document.

⁴ The significant decrease evidenced is because the ODL's 2020 GHG emissions inventory was structured using the financial control approach (inclusion of emissions generated in all the company's assets), and therefore it includes the emissions produced by the three thermal generation units in the EBR which Ecopetrol leases since April 2019. However, during the carbon neutrality certification process carried out by the Colombian Institute of Technical Standards and Certification (ICONTEC for its Spanish acronym), this company recommended the emissions from these units not be included (which are being reported by Ecopetrol).

⁶ For 202¹, the data excludes some Ocensa equipment that was being considered in 2020 and is now included only in the Ocensa numbers. In addition, the uploading to the SAP-EC (Environmental Compliance) program continued, providing an estimate of GHG emissions and criteria pollutants based on consumption information. This information is captured by including information from existing tools, thereby improving the reliability of the data and the timeliness for decision-making on atmospheric emissions issues.

⁶Taking into account the different sources of supply and the molar compositions of the gases that are transported (information from producers and transporters), if a loss of containment should occur, the volumes released into the atmosphere will be determined by the aforementioned molar fraction.

	2020				
Accounting metric	(1)	(2)	(3) ¹		
Unit of measure	tonCO ₂ e	%	%		
Cenit	105.042,15²	11,11	Not apply		
Ocensa	330.522	1,52	Not apply		
OBC	1,003	97	Not apply		
ODL	89.542 ³	3	Not apply		
ODC	41.193	0,09	Not apply		

¹ A percentage covered under the regulatory GHG emissions limit does not apply. There is no regulation associated with such emissions (or methane emitted) in Colombia.

²⁶ The metric EM-EP-110a.1 reported for Ecopetrol S.A. includes Cenit and Refinería de Cartagena's operated assets, in accordance with ISO 14064-1 methodology and the GHG Protocol, which establishes the organizational limit of the inventory as operational control.

³ ODL has three power generation plants, one that is rented, and adds to the emissions inventory due to Financial Control, contributing to 96.9% of Scope 1 emissions

EM-MD-110a.2

Goals:

Code

Ocensa

Accounting Metric

Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets

ssion and analysis

2021

I is committed to managing these emissions through reduction projects erations and the endorsement of sustainable development in the territory gh forest carbon projects that grant co-benefits. This commitment has ged through the Decarbonization Plan, which is the roadmap for:

term – 2021: obtained the Carbon Neutral certification granted by ICONTEC 21.

Term – 2030: contribute to the 25% reduction goal by:

Baseline: quantifies the GHG emissions produced by the operation. The emission report for the years 2019 and 2020 was obtained In September 2021 through a verification and corroboration process with Ruby Canyon Environmental Inc.

Emissions reduction projects: an emission reduction of around 23,651 tons C02e was obtained in 2021, thanks to projects such as the San Fernando Solar Park, with a self-generation projection of 60MW, which contributed with a 1,687 tons C02e reduction to the figure above.

Emissions offsetting: within the framework of the Carbon Neutral Certification process, 2020 was defined as the base year, which was fully offset. CENIT purchased 260,755 carbon credits in the RED++ Delfines Cupica conservation project located in the department of Chocó. This project is carried out by the Afro-descendant community councils of Los Delfines and Cupica as proposed conservation actions for the tropical rainforest, helping to avoid deforestation and recovering degraded areas.

The Ecopetrol Group has committed to achieving net-zero emissions by 2050 (Scopes 1 and 2), and to reduce CO_2 emissions 25% by 2030 versus 2019 (Scopes 1 and 2), as well as to reduce 50% of total emissions by 2050 (Scopes 1, 2 and 3). To achieve this, Ecopetrol and each of its subsidiaries have defined actions to reduce GHG emissions.

Ocensa is committed to continuing with the Scope 1 and 2 emissions quantification and verification processes by an independent third party and hopes to expand the quantification of GHG emissions to include Scope 3. Likewise, it seeks to promote and strengthen the development of GHG emissions mitigation and offset projects f that contribute to reducing emissions in the long term, strengthen the climate change adaptation program, and continue with the energy efficiency plan.

Reduce by 51% Scope 1 and 2 emissions by 2030 (base year: 2019), thus bringing emissions into line with the national goal. Reach, in 2030, 12 MW installed capacity from renewable sources. As a decarbonization strategy, Ocensa plans to be a net-zero emissions company by 2050; it began to develop a corporate Energy Program and Decarbonization Plan, which includes projects to reduce fuel use (or replace it with electricity from grids or outposts with fewer emissions, projects for the use of renewable energy in pumping stations and maritime terminal, the certification of the Energy Management System, planting of 100,000 trees, and the evaluation of new renewable energy technologies.

Continue to next page

	2021			All Guality	
OBC	In 2021, the Colombian Institute of Technical Standards and Certification (ICONTEC				514.445
ODL	for its Spanish acronym) recognized the company as carbon neutral through offset emissions from transport and pumping activities. This achievement is the result of an offset strategy including 17,242 tons CO ₂ e tons in ODL and 1,380 in OBC in			Code Accounting Metric	EM-MD Air emis volatile
	the Palameku Kuwei Redd+ Project and through the program aimed at reducing GHG emissions by transforming operating processes. In line with the Generate Value through TESG pillar of the Ecopetrol Group's 2040 Strategy to maintain a low carbon emission operation and reduce the vulnerability of infrastructure to climate			Unit of measure	Metrics
	variability and change, the decarbonization plan and sustainability strategy were established, which demonstrates the senior management's commitment. The GHG emissions management plan is established on these are the pillars and framed			Accounting metric	
	within a PDCA cycle (plan, do, verify and act for its Spanish acronym), with which			Unit of measure	
	it expects to meet the reduction targets: by 2030, 25% decrease in Scope 1 and 2 emissions according to ISO 14064-1 (2006) versus the baseline of 2019; by 2050,			Cenit'	
	net-zero "O" Scopes 1 and 2 emissions.			Ocensa [°]	
	Deduce and Concert and Consistence through short and there and the a term			0BC ³	
	Reduce net Scopes 1 and 2 emissions, through short, medium and long-term actions through GHG emissions management, nature-based climate solutions			ODL ⁴	
	and by using innovation and technology, according to the goals of the Ecopetrol			0DC⁵	
	Group. Additionally, a 50% reduction in total emissions (Scopes 1, 2 and 3, according to the ISO 14064-1 standard). Within the decarbonization plan and low-carbon operation strategy, ODL has developed energy efficiency activities through			Progasur ⁶	
	the pumping optimization project, continued implementation of solar energy in valve housing, and sustainable mobility with carbon-neutral corporate routes.			¹ Mass balance: is based on ap estimated from the fuel comp	
ODC	Is aligned with the Ecopetrol Group's commitment to achieving net-zero emissions by 2050 (Scopes 1 and 2), and reduce CO2 emissions 25% by 2030 versus 2019 (Scopes 1 and 2), as well as to reduce 50% of total emissions by 2050 (Scopes 1, 2 and 3). To achieve this, Ecopetrol and each of its subsidiaries have defined actions to reduce GHG emissions per their climate ambition.			considering the burning efficie ² To calculate the emissions of the United States Environmen Considering that fuel consump to the technology of the equipr underestimate the values. ³ OBC and ODL report the inve group, uses to record, quantify	if each of the air po ntal Protection Age ption by type of equi ment that employs entory in the SAP E
	Short-term strategy: quantify emissions, verify emissions by a third party, and define the pipeline decarbonization strategy. In 2022, the company expects to be certified as carbon neutral with the purchase of bonds, using the 2020 inventory as the base year.			(storage of hydrocarbons in ta (valves, flanges, seals, PRV) ar For estimating SOx emissions fuel. For the remaining polluta ⁴ The significant decrease evid of emissions generated in all t	nd industrial wast in combustion pro ants, the emission denced is because the company's ass
	Long-term strategy: the pipeline is working on a strategy to meet the goal of reaching net-zero emissions by 2050. In this process, actions aimed at reducing emissions are identified, such as changing combustion engines to electric motors, implementing solar parks to access renewable energy sources and reducing fugitive emissions, among others.			which Ecopetrol leases since 4 Standards and Certification [I0 being reported by Ecopetrol]. ^{\$} For 2021, the data excludes s ⁴ The air pollutant emissions e operation and the emission fac	CONTEC for its Spa some Ocensa equip estimate is based o
Progasur	The company carries out activities focused on the non-emission of gases with the encouragement of management and framed within the maintenance plans and the optimal operation of the gas pipelines. These plans also aim to preserve the physical			Accounting motois	
	integrity of the transportation systems and assess the risks present in the areas			Accounting metric Unit of measure ¹	
	of influence. Likewise, the company focuses its efforts on promoting a culture of accident prevention and avoidance.				
		8		Cenit	
				Ocensa	
			1 the		
				ODC	

to atmospheric emission.

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-120a.1

ssions of the following pollutants: (1) NOx (excluding N2O), (2) SOx, (3) organic compounds (VOCs), and (4) particulate matter (PM10) tons (ton)

	2021					
	(1) (2) (3) (4)					
	tonNOx	tonSOx	tonCOV	tonPM10		
	1.543	122,31	1.338,91	33,53		
2	2.457,54	671,57	64,02	79,80		
	0,69	0,01	28,64	0,05		
	10,96	0,44	556,32	0,34		
	338,45	297,80	97,79	10,60		
	0,98	0,01	0,42	0,06		
	0,70	0,01	0,42	0,00		

onservation of matter in the process. Basically, in fixed combustion sources, CO2 emissions are the volume of fuel burned in each source that generates emissions, as well as for flare burning, or each statior

utants, the factors provided by Ecopetrol are used, which in turn were obtained from AP-42 issued by

cy, multiplying these values by the company's fuel consumption. ipment was not differentiated and that the atmospheric pollutants emissions evaluated are subject the fuel, the most conservative emission factor values are used within those available in order not to

C tool (SAP Environmental Compliance Tool that Ecopetrol, as the leading company of the corporate ia pollutant emissions, which are categorized into: fixed sources of combustion, process venting unloading of tank trucks and barges), fugitive sources - circulation of hydrocarbons through accessories ewater treatment, flaring (not applicable), mobile combustion sources. ocesses, the stoichiometric balance methodology is carried out based on the sulfur contained in the factors methodology is used derived from Compilation AP42. the ODL's 2020 GHG emissions inventory was structured using the financial control approach (inclusion sets), and therefore it includes the emissions produced by the three thermal generation units in the EBR fer, during the carbon neutrality certification process carried out by the Colombian Institute of Technical anish acronym), this company recommended the emissions from these units not be included (which are

ment that was being considered in 2020 and is now included only in the Ocensa numbers n a calculation that includes the mileage traveled (annual) of the vehicles rented for the company's

2020					
(1) (2) (3) (4)					
tonNOx	tonSOx	tonCOV	tonPM10		
1.588	125,93	1.496	28		
2.774,34	766,27	72,18	89,86		
0,76	0,01	26	0,05		
1.578	470	698	49		
549	501	90	17		

¹ Metric is reported according to the unit of measure available for each company. ² ODL has three power generation plants, one of which is rented, and adds to the emissions inventory due to financial Control, contributing significantly

Ecological impacts

de	EM-MD-160a.1	
Inting Metric	Description of environmental management policies and practices for	
y	active operations	
of measure	Discussion and analysis	
	2021	
it	During 2021, we strived to comply with current environmental regulations, identify	
	and manage the potential impacts and environmental risks of the operation, and	
	encourage sustainable development in the areas of influence. Cenit is consolidated	
	as a Carbon Neutral company, on the path towards an ever more innovative and	
	environmentally responsible business, working on: 1) the environmental feasibility	
	of projects and operations; 2) compliance with environmental regulations;	
	 addressing damages arising from to environmental incidents; circular economy; biodiversity; water management; and, decarbonization. 	
	content, of blocketer, of water management, and, if accurbenization.	
ISa	Within the activities of the pipeline's operation, Ocensa has identified risks and	
	opportunities to prevent or reduce the possibility of external conditions that may	
	affect the company, as well as to mitigate its impact on the environment. In the	
	planning of the Environmental Management System (EMS), some of the established processes include:	
	 Procedure to identify environmental issues and impacts: to identify, evaluate 	ODL
	and asses environmental issues and impacts and determine controls to prevent,	
	minimize or offset the effects that may be caused to people and the environment.	
	 Matrix to identify environmental issues and impacts: the matrix is prepared based on our own methodologies. Some of the elements included in the 	
	identification are: work facilities, inventory of substances, potentially exposed	
	natural resources, environmental or other legal requirements.	
	Life cycle matrix: the significant environmental issues that the company can	
	control and those it can influence have been identified, including changes, new	
	developments, and new or modified products or services.	
	 Environmental Management System Handbook: establishes the elements, 	
	guidelines and responsibilities within Ocensa to comply with the EMS.	
	Environmental performance measurement: internal audits, management	
	meetings and reviews, daily, weekly and monthly controls are carried out to verify compliance with the established parameters.	
	Likewise, guidelines, processes and procedures have been implemented and studied, including:	
	Environmental Management Plan	
	Sustainability Strategy and Circular Economy	
	Comprehensive Responsibility Policy	
	Environmental Control Program	
	Prevention and Monitoring Program	
	Company Risk Matrix	
	The company's policies and practices are aligned with the performance standards of	
	the International Finance Corporation	
	Within the framework of legal compliance, the Sustainability Policy, the commitment	
	to encourage a responsible governance model, and the strategic pillars of the	
	Ecopetrol Group, the following stand out:	
	Preventive approach for environmental compliance	
	Goals: 25% reduction in emissions by 2030, Scopes 1 and 2, net-zero "0" emissions	
	Goals: 25% reduction in emissions by 2030, Scopes 1 and 2, net-zero "0" emissions by 2050, Scope 3 categories I to IV. Has no projects or operations in areas declared World Heritage by UNESCO.	

2021

ar Economy. Transition with three (3) supply strategies: htract product as a service; (2) agree to extended responsibility through reverse cs service; and, (3) incorporate circular payment methods.

nvironmental incidents and barrels spilled due to operational causes.

esult of environmental monitoring, 85 activities associated with the gement of 77 alerts and responses to eight (8) incidents were identified, which iddressed by OBC and its Fundación Oleoducto Vivo. To guarantee an adequate use to the requests, expectations and complaints received from the different olders, the company has the "SER" call line mechanism. In 2021, 154 requests iddressed. In 2021, 2,499 relationship activities were carried out to ensure ation was delivered, adequate risk and impact management, encourage unity participation, and have accountability. The program for savings and the nt use of resources with the reuse of treated industrial water, use of rainwater, management, and a monitoring plan was implemented. The sustainable gement of natural resources is emphasized with voluntary management h the inclusion of ecosystems, biodiversity and people, with the Living stems Program.

s to reduce the risk of contagion and spread of COVID-19: tests for early ion, hygiene, disinfection barriers, isolation, identification of close contacts and ful control measures were carried out.

the framework of legal compliance, the Sustainability Policy, the commitment burage a responsible governance model, and the strategic pillars of the trol Group, the following stand out:

ntive approach for environmental compliance

25% reduction in emissions by 2030, Scopes 1 and 2, net-zero "0" emissions 0, Scope 3 categories I to IV. Has no projects or operations in areas declared Heritage by UNESCO.

ar Economy. Transition with three (3) supply strategies: (1) Contract product as ice; (2) agree to extended responsibility through reverse logistics service; and, prporate circular payment methods.

nvironmental incidents and barrels spilled due to operational cause: As a of environmental monitoring, 66 activities associated with the management of ts and responses to two (2) incidents were identified, which were addressed by d its Fundación Oleoducto Vivo.

rantee an adequate response to the requests, expectations and complaints ad from the different stakeholders, ODL has the "SER" call line mechanism. In 73 requests were addressed.

1, 1,583 relationship activities were carried out to ensure information elivered, adequate risk and impact management, encourage community pation, and have accountability. The program for savings and the efficient resources with the reuse of treated industrial water, use of rainwater, management, and a monitoring plan was implemented. The sustainable gement of natural resources is emphasized with voluntary management in the inclusion of ecosystems, biodiversity and people, with the Living stems Program.

s to reduce the risk of contagion and spread of COVID-19: tests for early ion, hygiene, disinfection barriers, isolation, identification of close contacts and ful control measures were carried out.

Continue to next page

	2021	Code	EM-MD-160a.3	
ODC	Oleoducto de Colombia S.A. is committed to the prevention and promotion of	Accounting Metric	(1) Terrestrial acreage disturbed, (2) percentage of impacte	d area restored
protection of the environ Comprehensive risk mar	the health and safety of all its workers, direct and contractors, as well as to the protection of the environment and the continuous improvement of processes.	Unit of measure	Hectares (ha), percentage (%)	
	Comprehensive risk management is carried out both in a strategic and a day-to-			2021
	day context, identifying hazards/issues, evaluating the risks/impacts of processes and activities, establishing the necessary control measures to prevent incidents	Accounting metric	(1)	(2)
	and occupational health illnesses, thus ensuring the achievement of business objectives. We implement high-performance standards and strictly comply with the applicable national and international legal requirements the Company endorses within the framework of its corporate governance, respect for human rights and the value promise for all stakeholders	Unit of measure	ha	%
		Cenit ¹	0,0	8 100
		Ocensa ²	0,0	5 100
		OBC ³	1,7	3 100
	The Company, in the performance of its activities and to guarantee synchronization with the environment, carries out an integral HSEQ operational management to minimize environmental impacts and optimize resources, as well as following the	ODL ³	1,6	0 100
Progasur		ODC ⁴	-	-
		Progasur⁵	55,5	0 100
guidelines of the comprehensive management system for the entire life cycle of the infrastructure. Progasur has a comprehensive HSEQ management policy that includes: environmental management plans with their corresponding files and disaster risk management plans, environmental programs under the ISO 14001:2015 standard, maintenance plans with a management plan for integrity, environmental programs and the HSEQ Comprehensive Management Policy.		reported to the environmental au activities. In 2021, due to third pa activities of spilled product follow ² Restoration: process that seeks before the damage occurred. For	er reported only includes the effects of operational environmental events and correspon thority through the initial environmental incidents reports, which may vary depending on rties actions unrelated to the operation, an alteration of 195.7 ha was identified on whicl ving Decree 321 of 1999. to return a damaged, altered, or degraded ecosystem to its original condition, or at leas the restoration of the area that was affected, Ocensa resorted to the execution of an in s	n the closure of recovery n Cenit is carrying out cleaning t to a state close to what it was situ bioremediation process,

Code	EM-MD-160a.2
Accounting Metric	Percentage of land owned, leased, and/or operated within areas of protected conservation status or endangered species habitat
Unit of measure	Percentage (%)

	2021
Accounting metric	(1)
Unit of measure	%
Cenit	8,47
Ocensa	1,88
OBC ²	-
ODL ²	0,78
ODC	-
Progasur	-

¹ Document to review conservation areas https://www.protectedplanet.net/country/COL, National Spatial Reference System (NSRS) ² 45 ha in conservation sites out of a total of 2,379 ha owned, leased and/or operated. The areas were calculated in Unique National Origin CTM12

	2020
Accounting metric	(1)
Unit of measure	%
Cenit	8,50
Ocensa	1,90
OBC	
ODL	3,90
ODC	-

	2	2020		
Accounting metric	(1)	(2)		
Unit of measure	ha	%		
Cenit	0,011	100 ²		
Ocensa	-	Not apply		
OBC	-	Not apply		
ODL	-	Not apply		
ODC	0,91	63		

¹ The figure only includes affectations to the environment from operational events. It corresponds to information officially reported to the Environmental Authority through the initial reports of environmental incidents, this could change based on the closure of the recovery efforts. For the following report we will provide detailson the areas impacted by third parties external to the operation. ² It does not include environmental compensations made due to impacts different from operational spills.

which is a technological alternative for the cleaning of contaminated soils and aquiters with the use of microorganisms to mineralize or transform organic pollutants into chemically simpler compounds. In this way, by applying the product directly to the soil using piezometers and the opening of control windows, the molecular decomposition of the hydrocarbon chains into more assimilable compounds was achieved, which provided a restoration of 100%

³ Definition of "Restoration" within the framework of plant recovery activities through revegetation through interventions in areas with geotechnical works in the maintenance phase of the hydrocarbon transport system. Assistance practices are guided by preventive environmental management, complying with its legal commitments via follow-up and monitoring activities to carry out the maintenance and monitor the integrity system plan, including technical visits in the field, socialization with communities, progress reports and the Environmental Compliance Reports (ICA for its Spanish acronym). Damage by third parties is not included.

⁴ During 2021, there were no events due to loss of containment or damage by third parties, nor were there operational spills. ⁵ Restoration is the sum of the actions that are carried out after the intervention on the land to restore it to the previous state before the Company's activities.

Environmental management practices: Approachment and agreements with the community so the restoration is effective.

Review 100% of the pipeline's right-of-way to assess its condition, the environmental conditions and the stability of the terrain. Monitoring of alarms generated by the IDEAM (Colombian environmental authority for its Spanish acronym). Addressing information or situations reported by the community regarding the stability of the land.

Code	EM-MD-160a.4
Accounting Metric	(1) Number and (2) aggregate volume of hydrocarbon spills, (3) volume in Arctic, (4) volume in Unusually Sensitive Areas (USAs), and (5) volume recovered
Unit of measure	Number, barrels (bbls)

2021 (2) (3) (4) Accounting metric (1) (5) Number bbls bbls bbls bbls Unit of measure of spills Cenit¹ 10 0.36 Not apply Not apply 0.17 Ocensa² 3 15,90 Not apply Not apply -OBC --Not apply Not apply -ODL _ Not apply Not apply --ODC Not apply -Not apply --Progasur --Not apply Not apply -

¹ Operational spills are reported under this metric. In 2021, seven (7) affected the soil and three (3) affected both water and soil. This year there was a decrease of events classified as operational, from 13 (2020) to 10 (2021), which evidences the positive impact of improvements implemented in the operation. To clarify, in 2021 there were 257 containment losses caused by third parties. There were also three (3) events associated with natural causes that had an impact due to containment losses over 195,693.5 m2 (195.7 Ha), of which 58,331.5 m2 (58.3 Ha) were recovered. Additionally, five (5) oil spills were reported due to an unknown cause which is under investigation. The number of bbls removed in 2018 and 2019 are not available because the system operator did not keep such records.

² One of the events was the spill of oily substances in the PK274+200 section, wherein the in situ bioremediation of 594.14m3 of the terrain was carried out, guaranteeing the recovery of 100% of the affected area (0.0465 Ha). The remaining two events occurred offshore and were dealt with immediately, preventing any negative impact on the marine ecosystem. The event related to PK274+200 is not a primary containment loss, because it is part of an oil release from 2018. Additionally, the 5.3 barrels spill is an IFSP Level 2 event that occurred in 2021, and the second offshore event was not a process safety event because, according to API Standard 754, it does not meet the criteria to be considered level 1 or 2.

			2020		
Accounting metric	(1)	(2)	(3)	(4)	(5)
Unit of measure	Number of spills	bbls bb	bbls	bls bbls	bbls
Cenit	1261	5.176			3.108 ²
Ocensa	-	-	No operations in the Arctic or in Unusually Sensitive Areas		Not apply
OBC	-	-			Not apply
ODL	-	-			Not apply
ODC	-	-			Not apply

¹ From the 126 spills, 110 were originated by third parties , 13 classified as operational ² The figure can change based on the closing events and the cleaning and mitigation activities, which corresponds to information reported officially on the National Licensing Environmental Authority (ANLA) through the final reports of environment incidents.



Competitive Behavior

Code	EM-M
Accounting Metric	(1) Tot with fe
Unit of measure	Repor

	2021
Accounting metric ¹	(1)
Unit of measure	COP \$
Cenit	-
Ocensa	-
OBC	-
ODL	-
ODC	-
Progasur	_

¹ There were no monetary losses to report.

	2020
Accounting metric ¹	(1)
Unit of measure	COP \$
Cenit	-
Ocensa	-
OBC	-
ODL	-
ODC	-



1D-520a.1

tal amount of monetary losses as a result of legal proceedings associated federal pipeline and storage regulations

rting currency

¹ There were no fines or sanctions. We have no knowledge of losses in 2020 due to legal proceedings associated with federal pipeline and storage regulations.

Operational Safety, Emergency Preparedness & Response

Code	EM-MD-540a.1
Accounting Metric	Number of reportable pipeline incidents, (2) percentage significant
Unit of measure	Number, percentage (%)

	2021	
Accounting metric ¹	(1)	(2)
Unit of measure	Number	%
Cenit	3	100
Ocensa	2	
OBC ¹		
ODL ¹		
ODC ¹		
Progasur ¹		

	2020	
Accounting metric ¹	(1)	(2)
Unit of measure	Number	%
Cenit	1	100
Ocensa	1	100
OBC		Not apply
ODL		Not apply
ODC		Not apply

¹ There were no reportable pipeline incidents.

Code	EM-MI
Accounting Metric	Percer
Init of measure	Percer

	2021	2021	
Accounting metric ¹	(1)	(2)	
Unit of measure	Número de incidentes	%	
Cenit ¹	Not apply	35,83	
Ocensa ²	Not apply	64,55	
OBC	Not apply	100	
ODL	Not apply	100	
ODC	Not apply	60,75	
Progasur ³	Not apply	Not apply	

Magnetic Flux Leakage scan (MFL)
 Straight beam ultrasonic testing
 Ultrasound angle beam testing for axial cracks

 Ultrasound angle beam testing for axial cracks
 Circumferential defect detection using ultrasonic guided waves
 Geometry
 XYZ mapping with inertial measurement
 ² 548 of a total of 849 km of hazardous liquid pipelines were inspected. The total length of pipeline Ocensa operates and maintains, including the offshore pipeline, is app. 849 km. In 2021, an inspection was carried out with intelligent pipeline integrity gauges that detect metal loss, cracks and geometric inertial technologies on a total of 548 km of pipeline. It must be noted that the established frequency of these inspections is based on the applicable corporate technical criteria and are carried out in periods greater than one year, ranging from three [3] to five [5] year intervals. Therefore, this indicator does not require a 100% result in each period and is calculated considering the length of the pipeline to be inspected according to the criteria and the technical need established for each period. Ocensa does not operate or maintain pipelines for the transport of gas. ³ The company does not have natural gas distribution pipelines.

	2020	2020	
Accounting metric	(1)	(2)	
Unit of measure	%	%	
Cenit	Not apply	32	
Ocensa	Not apply	31,91 ¹	
OBC	Not apply	100	
ODL	Not apply	100	
ODC	Not apply	100	

¹ It must be noted that these inspections have an established frequency based on the applicable corporate technical criteria and are carried out in periods greater than one validity, ranging from 3 to 5 year intervals. Therefore, this indicator does not require a 100% result in each period and is calculated taking into account the length of the planned pipeline according to the criteria and the technical need established for each period.

1D-540a.2

ntage of (1) natural gas and (2) hazardous liquid pipelines inspected ntage (%)

12,362 of 6,592 km of hazardous liquids pipelines inspected in 2021. In-line inspection (ILI) with robotic vehicles is used to assess pipeline integrity using

Code	EM-MD-540a.3		
Accounting Metric	Number of (1) accident releases and (2) nonaccident releases (NARs)		• Equip
-	from rail transportation		of ele
Unit of measure	Number		offsho of spe
2021	This metric does not apply for reporting companies in this subsector.		Public
2020	This metric does not apply for reporting companies in this subsector.		(PMA share
			the ar
Code	EM-MD-540a.4		• Joint
Accounting Metric	Discussion of management systems used to integrate a culture of safety and		to har
	emergency preparedness throughout the value chain and throughout project lifecycles		Comn
Unit of measure	Discussion and analysis		by our
	,	OBC	The Oleodu
		ODL	have an En
	2021	UDL	Spanish ac to the proc
Cenit	Cenit has a Process Safety Management System to offer confidence about the		an emphas
Joint	reasonable precautions with which it undertakes and manages its activities and		for disaster
	processes. Said system is currently in progress, taking into consideration therein		authorities
	international standards for the Oil & Gas sector such as API 754, CCPS2 guidelines		Plan; Emer
	and OSHA 29 CFR 1910.119 and Decree 1347 of 2021.		Policy; SGE
	Departing emergencies, there is a structure in place to prepare for and respond to		prioritized
	Regarding emergencies, there is a structure in place to prepare for and respond to operational emergencies based on an assessment of legal requirements, risk analysis,		Regarding
	possible outcome evaluations, lessons learned, investigation of incidents and the		in integrity
	process implementation outcomes, among others. It includes the definition of the		safety; geo
	necessary elements to ensure an adequate response to operational emergencies,		response;
	mitigation of their consequences and compliance with the requirements of the Law,		systems; ir systems; tr
	which spans from the design stage of new infrastructure, through its operation, maintenance and even dismantling. The comprehensive management of operational		of municip
	emergencies includes actions to be taken prior, during and after the materialization of		(PAM for its
	an undesired event.		In terms of
	Finally, regarding the prevention and management of events that could have catastrophic		are those in
	impacts, in compliance with Law 1523 of 2012 and Decree 2157 of 2017, since 2018		Manageme
	Cenit adopted its Disaster Risk Management Plan (PGRD for its Spanish acronym) that		acronym) t responsible
	is revised and adjusted yearly. The PGRD defines the activities aimed at identifying, expressing, programming, prioritizing and monitoring the activities of the company		responsible
	with regard to the processes of risk knowledge, risk reduction, disaster management,	ODC	Through th
	sectoral implementation & territorial harmonization (includes risk communication), and		each of the
	monitoring and verification.		monitored
			work sites
Ocensa	Safety and emergency preparedness systems in the value chain: Includes		plans of ea the Emerg
	constant upkeep and strengthening of initiatives in three (3) areas to prepare		managem
	for a timely emergency response: company and coordination, training and		Throughou
	education, equipment and facilities. This incorporates the interactions between areas and interest groups in order to potentially involve them in the emergency		partners, i
	preparedness cycle.		national di
	• Standards and guidelines: Ocensa's safety and emergency management	Progasur	The Comp
	system fully complies with national regulations and is aligned with technical		acronym)
	guidelines including ISO 22300:2021, ISO 22301:2019, ISO 22320:2013, BS		a disaster and/or cre
	11200 and NFPA1600.		the infras
	Company and coordination: Planning tools have been developed for emergency response, such as a continuity plan, emergency and contingency plans, specific		
	response, such as a continuity plan, emergency and contingency plans, specific risk analyses, disaster scenario procedures, mutual aid agreements, local		The main
	emergency response plans and response protocols.		awarenes
			associated
	 Education and training: Annual workshops cycles are held to promote a culture 		
	 Education and training: Annual workshops cycles are held to promote a culture of safety and emergency preparedness, wherein the strategies of the emergency 		are define Conseque

2021

uipment and facilities: Aimed at safeguarding and improving the availability elements and infrastructure for emergency response at onshore stations and fshore operations, considering inspection routines, maintenance, and updating specialized equipment, as well as corroborating records at control points.

ublicizing the system: The emergency plans, environmental management plan MA for its Spanish acronym) and the Ocensa disaster management plan are hared with the Community Action Boards (JAC) and fishermen's associations in e area of direct influence (AID).

bint oversight between the labor force and management: The response times handle any eventuality are shared between the support team, the Local command and the Executive Committee, together with a rotating participation or our collaborators.

eoducto de los Llanos and the Oleaoducto Bicentenario de Colombia pipelines in Emergency, Crisis and Business Continuity Management System (SGECC for its in acronym) in place that cover all operational areas, the population associated processes, operations and maintenance, and the different stakeholders, with phasis on workers, inhabitants of the areas of influence, Territorial Councils aster risk management, and local municipal, departmental and national ities. The governing documents of the SGECC are: Disaster Risk Management imergency and Contingency Plan; Emergency, Crisis and Continuity Management SGECC Handbook; Business Impact Analysis; and, Business Continuity Plan for zed processes and value chain processes and operations.

ing safety management, the system emphasizes prevention, considering actions prity plans; equipment reliability; infrastructure maintenance plans; process geo-threat management; prevention contracts; emergency preparedness and se; systems alerts and alarm systems; knowledge, risk reduction and monitoring s; inspection, testing and maintenance of fire detection and fire extinguisher s; training; drills; training of community leaders in emergencies; strengthening icipal disaster assistance groups; mutual aid plans with companies in the sector or its Spanish acronym), among others.

is of emergency and/or disaster response, the internal management areas se in strategic, tactical and operational levels, characterized by the Crisis ement Team (CMT) and the Emergency Management Team (IMT for its Spanish m) that includes groups for tactical and operational response, as well as those sible for process continuity.

the Occupational Health and Safety management program for contractors, f the partner companies with which the ODC currently has contracts is bred through monthly and/or quarterly meetings, field inspections at different ites and HSE evaluations. In the latter the emergency and contingency of each contractor are reviewed along with the interface they have with hergency and Contingency Plan of the ODC facilities and their prevention mement included their annual planning (e.g. training, drills, inspections, etc.). shout the year, 10 HSE campaigns were carried out with contractors and rs, including a response preparedness campaign within the framework of the al drill in October 2021.

ompany has a Risk and Disaster Management Plan (PGRD for its Spanish rm) that includes risk awareness, identification and reduction, as well as ster management program (PEC) based on the assessment of potential r credible natural, anthropic, socio-natural and operational threats in rastructure.

ain objective of the PGRD in the company is to define and record the ness, reduction, and mitigation actions required to manage risks ated with the operation and conditions of the infrastructure. The actions fined according to the results of the analysis and risk assessment. quently, the company has an Incident Command which supports the ny's management in handling possible contingencies.

EXTRACTIVES & MINERALS PROCESSING SECTOR









ACTIVITY METRICS

Code	EM-RM
Accounting Metric	Refinir
Unit of measure	Barrel

Accounting Metric Unit of measure

Refinería de Barrancabermeja¹ Refinería de Cartagena S.A.S (Ref

2020
(1)
bbls-e
51.416.090

Code	EM-R
Accounting Metric	Refini
Unit of measure	Millior

	2021
Accounting Metric	(1)
Unit of measure	Mbbls/day
Refinería de Barrancabermeja	0,24
Refinería de Cartagena	0,16

Accounting metric Unit of measure Refinería de Cartagena

A.000-MR

ing throughput of crude oil and other feedstocks

els of oil equivalent (bbls-e)

	2021
	(1)
	bbls-e
	77.016.503
efinería de Cartagena)	54.859.908

¹ For 2021, the Barrancabermeja Refinery reports its metrics separately under the Refining and Marketing standards. In 2020, the Barrancabermeja Refinery reported under the Exploration and Production standard and its numbers were consolidated within the metrics reported by Ecopetrol S.A.

RM-000.B

ning operating capacity

on barrels per calendar day (Mbbls/day)

2020
(1)
Mbbls/day
0,16

ENVIRONMENT

Greenhouse Gas Emissions

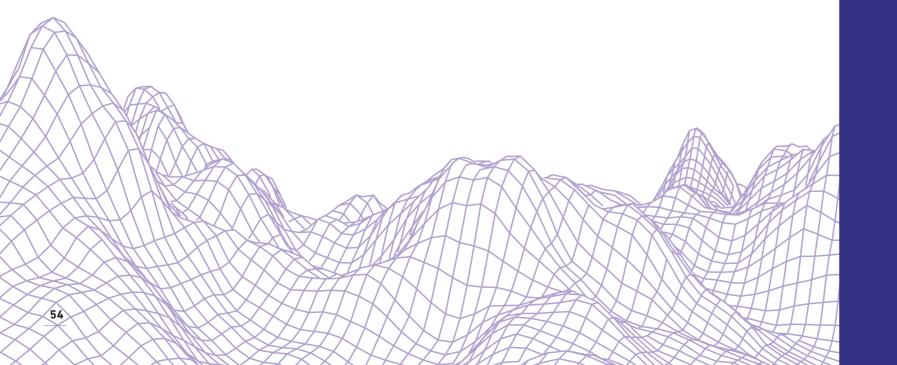
Code	EM-RM-110a.1
Accounting Metric	(1) Gross global Scope 1 emissions, (2) percentage covered under emissions- limiting regulations
Unit of measure	Metric tons CO ₂ e (tonCO ₂ e) Percentage (%)

	2021		
Accounting Metric	(1)	(2) ¹	
Unit of measure	tonCO ₂ e	%	
Refinería de Barrancabermeja	3.106.618	-	
Refinería de Cartagena	2.039.682	-	

¹ The percentage covered under the regulations limiting GHG emissions is not applicable herein, because there is no regulation in Colombia related to said emissions (or the methane emitted).

	2020		
Accounting Metric	(1)	(2)	
Unit of measure	tonCO ₂ e	%	
Refinería de Cartagena	2.203.8341	The percentage covered under the regulations limiting GHG emissions is not applicable herein, because there is no regulation in Colombia related to said emissions (or the methane emitted).	

¹ The amount reported in the EM-EP-110a.1 metric for Ecopetrol S.A. includes the operated assets of Cenit and the Cartagena Refinery under the ISO 14064-1 methodology and the GHG Protocol, which establishes the inventory organizational limit as the operational control.



Code	EM-RM-
Accounting Metric	Discussion emission those tar
Unit of measure	Discussio
Refinería de Barrancabermeja	The Ecop and 2), ar well as to Ecopetro The Barr
	Strategy for its Sp portfolio
	This port • Ene effic
	 Ren and
	 Vent Circ Nati
	In 2021, 109% col following
	Optimize of boiler,
Refinería de Cartagena	The Carta the goal o set by the
	This port • Ene effic
	RenVentCirc
	EmeNation
	A cumula to the GH establish Refinery (CLCDS)
	The initia 1operatir the perfo performa

M-110a.2

- ssion of long-term and short-term strategy or plan to manage Scope 1 ions, emissions reduction targets, and an analysis of performance against targets
- sion and analysis

2021

- opetrol Group committed to reaching net-zero emissions by 2050 (Scopes 1 and to reduce CO₂ emissions 25% by 2030 versus 2019 (Scopes 1 and 2), as to reduce 50% of total emissions by 2050 (Scopes 1, 2 and 3). To achieve this, crol and each of its subsidiaries have defined actions to reduce GHG emissions.
- arrancabermeja Refinery has joined the Colombian Low Carbon Development gy led by the Ministry of Environment and Sustainable Development (MADS Spanish acronym) and committed to the GHG reduction goals through a lio of decarbonization initiatives.
- ortfolio is demarcated into five (5) major areas:
- nergy efficiency (energy integration, improvement of furnace and boiler fficiency, steam distribution)
- enewable energies (generation and consumption of renewable energy nd fuels)
- enting, fugitive emissions and reduced reduction in flares
- ircular economy
- ature-based solutions
- 1, emissions were reduced by 36,245 tons of $CO_2e/year$, which was a completion of the established goal (33,069 tons of $CO_2e/year$) through the ing measures:
- ized boilers using the Optimus system, reliability and optimization assurance er, and upholding the non-dispatch of energy to Cira.
- ntagena Refinery has a portfolio of GHG reduction initiatives 2020-2030 with al of reducing by 25% its GHG greenhouse gases by 2030, in line with the target the Ecopetrol Group.
- ortfolio is demarcated into five (5) major areas:
- nergy efficiency (energy integration, improvement of furnace and boiler fficiency, steam distribution)
- enewable energies (generation and consumption of renewable energy and fuels)
- enting, fugitive emissions and reduced reduction in flares
- ircular economy
- merging technologies
- ature-based solutions
- ulative reduction of 34,822 tons of $CO_2e/year$ was achieved in 2021 with respect GHG emission reduction goal, which meant the realization of 146% of the ished goal (23,900 tons of $CO_2e/year$). Based on the foregoing, the Cartagena ry has be included in the Colombian Low Carbon Development Strategy S) led by MADS and the country's reduction goals.
- itiatives developed in 2020 that permitted this GHG reduction were: ating control of energy variables in eight (8) process units, improvement in rformance of the GTG_HRSG cogeneration set (electric-steam), and the mance of the turboexpander in the Catalytic Cracking Unit.

Air Quality

Water Management

Accounting metric

Barrancabermeja

Unit of measure

Refinería de

Refinería

de Cartagena

ile organic compounds (VOCs)	Code	EM-RM-120a.1
Unit of measure	Accounting Metric	Air emissions of the following pollutants: (1) NOx (excluding N2O), (2) SOx, (3) particulate matter (PM10), (4) H2S, and (5) volatile organic compounds (VOCs)
Unit of measure	Jnit of measure	Metric tons (t)

			2021		
Accounting Metric	(1)	(2)	(3)	(4)	(5)
Unit of measure	tonNOx	tonSOx	tonPM10	tonH ² S	tonCOV
Refinería de Barrancabermeja	3.316,80	8.880,20	390,10	-	7.610,10
Refinería de Cartagena	1.947,10	2.067,00	242,50	-	4.940,80

			2020		
Accouting metrics	(1)	(2)	(3)	(4)	(5)
Unit of measure	tonNOx	tonSOx	tonPM10	tonH ² S	tonCOV
Refinería de Cartagena	2.061,30	2.811,50	306,40	-	3.509,70

Code	EM-RM-120a.2
Accounting Metric	Number of refineries in or near areas of dense population
Unit of measure	Number

	2021
Accounting Metric	(1)
Unit of measure	Number
Refinería de Barrancabermeja	1
Refinería de Cartagena	1

	2020
Accounting Metric	(1)
Unit of measure	Number
Refinería de Cartagena	1

			2020	
Accounting metric	(1)	(2)	(3)	(4)
Unit of measure	Mil m ³	%	%	%
Refinería de Cartagena ¹	7.190	57	100	100

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¹ Cartagena Refinery does not collect water directly from natural sources; instead, the water used in the processes is supplied by a third party.

Code	EM-RM
Accounting Metric	Numbe standa
Unit of measure	Numb

	2021
Accounting Metric	(1)
Unit of measure	Número de incidentes
Refinería de Barrancabermeja	-
Refinería de Cartagena	-

	2020
Accounting Metric	(1)
Unit of measure	Número de incidentes
Refinería de Cartagena	-

M-140a.1

al fresh water withdrawn, (2) percentage recycled,(3) percentage extracted) percentage consumed in regions with High or Extremely High Baseline Stress

and cubic meters (m³), Percentage (%)

2021				
(1)	(2)	(3)	(4)	
Mil m ³	%	%	%	
21.506	56	18,50	41,09	
6.970	69	100	100	

M-140a.2

ber of incidents of non-compliance associated with water quality permits, lards, and regulations

ber, percentage (%)

Hazardous Materials Management

Code	EM-RM-150a.1
Accounting Metric	Amount of (1) hazardous waste generated, (2) percentage recycled
Unit of measure	Metric tons (ton), percentage (%)

	202	21
Accounting Metric	(1)	(2)
Unit of measure	ton	%
Refinería de Barrancabermeja	12.437	48,7
Refinería de Cartagena	2.418 ¹	26

¹ The decrease is due to less oily sludge (tank bottoms) resulting from the rescheduling of tank maintenance.

	202	20
Accounting Metric	(1)	(2)
Unit of measure	ton	%
Refinería de Cartagena	4.686	4,77

Code	EM-RM-150a.2
Accounting Metric	(1) Number of underground storage tanks (USTs), (2) number of UST releases requiring cleanup, and (3) percentage in states with UST financial assurance funds
Unit of measure	Number and percentage

		2021	
Accounting Metric ¹	(1)	(2)	(3)
Unit of measure	UST Number	Number of UST releases	%
Refinería de Barrancabermeja	Not apply	-	-
Refinería de Cartagena	Not apply	-	-

		2020	
Accounting Metric ¹	(1)	(2)	(3)
Unit of measure	UST Number	Number of UST releases	%
Refinería de Cartagena	Not apply	-	-

¹ Neither of the two refineries has underground storage tanks.

HUMAN CAPITAL

Workforce Health & Safety

Code	EM-RN
Accounting Metric	(1) Tota freque
Unit of measure	Rate

		202	21
Accounting Metric	(1) ¹	(2)	(3)
Unit of measure	Rate	Rate	Rate
Refinería de Barrancabermeja	(a) 0,75	(a) -	(a) Not available for 2021
	(b) 0,52	(b) -	(b) Not available for 2021
	Total: 0,62	Total: -	Total: Not available for 2021
Refinería de Cartagena	(a) -	(a) -	(a) Not available for 2021
	(b) 1,34	(b) -	(b) Not available for 2021
	Total: 1,29	Total: -	Total: Not available for 2021

	2020	
(1)	(2)	(3)
Rate	Rate	Rate
TRIF: 0,19	-	0,04
	Rate	(1) (2) Rate Rate

Code	EM-RM
Accounting Metric	Discuss
Unit of measure	Discuss

Refinería de Barrancabermeja	Ecopetro mandato protect li
Refinería de	was esta
Cartagena	internati
	The HSE continuo planning to anticip occupatio
	The HSE

Management System includes 22 sub-elements; each sub-element defines the principle, the basic implementation requirements, and provides direction on the documents that detail the application of the basic requirements.

M-320a.1

tal recordable incident rate (TRIR), (2) fatality rate, and (3) near miss ency rate (NMFR) for (a) full-time employees and (b) contract employees

¹ TRIR is measured in refineries by measuring recordable incidents (fatalities, accidents with lost work time, medical treatment cases, and restricted work cases) according to the OSHA standard, which is the standard used in the Oil & Gas sector.

1-320a.2

sion of management systems used to integrate a culture of safety sion y analysis

2021

rol S.A. has the HSE Management System, which aims to defining the basic tory requirements under which the company manages risks in order to life and promote care for the environment. The HSE Management System ablished based on current national regulations (Decree 1072 of 2015) and tional standards (ISO 45001 and ISO14001).

E Management System consists of a logical and staged process based on ous improvement and that includes culture, leadership, policy, organization, g, application, evaluation, audit and actions for improvement in order ipate, recognize, evaluate and control the risks that may affect safety, tional health and the environment.

BUSINESS MODEL AND INNOVATION

Product Specifications & Clean Fuel Blends

Accounting Metric	Percentage of Renewable Volume Obligation (RVO) met through: (1) production of renewable fuels, (2) purchase of "separated" renewable identification numbers (RIN)		
Unit of measure	Percentage (%)		
		20)21
Accounting Metric ¹		(1)	(2)
Unit of measure		%	%
Refinería de Barrancabermeja		Not	apply
Refinería de Cartagen	а	Not	apply

	2020		
Accounting Metric ¹	(1)	(2)	
Unit of measure	%	%	
Refinería de Cartagena	Not a	Not apply	

¹ Neither of the two (2) refineries has a renewable volume obligation

Code	EM-RM-410a.2
Accounting Metric	Total addressable market and share of market for advanced biofuels and associated infrastructure
Unit of measure	Reporting currency, percentage (%)

2021

This metric does not apply to reporting companies in this subsector. The Barrancabermeja Refinery (GRB for its Spanish acronym) does not have infrastructure for biofuel production. GRB acquires third party Ecodiesel for the production of Biodiesel (B2E)

	2020	
Accounting Metric ¹	(1)	(2)
Unit of measure	Reporting currency	%
Refinería de Cartagena	Not available	for 2020

LEADERSHIP AND GOVERNANCE

Code	EM-RM
Accounting Metric	Total a price f
Unit of measure	Report

Accounting Metric

Unidad de medida Refinería de Barrancabermeja Refinería de Cartagena

Accounting Metric Unidad de medida

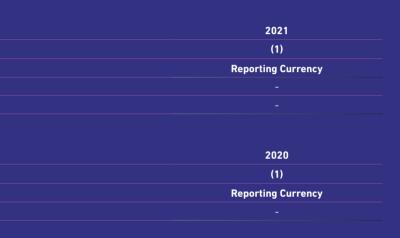
Refinería de Cartagena



M-520a.1

mount of monetary losses as a result of legal proceedings associated with fixing or price manipulation

ing currency



Management of the Legal & Regulatory Environment

Code	EM-RM-530a.1	Code	EM-RM-540a.1		
Accounting Metric	Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry	Accounting Metric	Process Safety Event (PSE) rates for Loss of Primary Containment (LOPC) o greater consequence (Tier 1) and (2) lesser consequence (Tier 2)		LOPC) of (1)
Jnit of measure	Discussion and analysis	Unit of measure	Rate		
	2021			20	021
Refinería de	The Barrancabermeja Refinery oversees the dynamics related with government	Accounting Metric		(1)	(2)
Barrancabermeja	regulations and policies focused on risk management and monitors the environmental legal compliance.	Unit of measure		Rate	Rate
		Refinería de Barranca	bermeja	0,10	0,21
	Regarding actions regarding climate change and air quality management, the Refinery considers; (i) the Colombian Low Carbon Development Strategy (CLCDS)	Refinería de Cartagen	a	-	0,10
	led by MADS when implementing mitigation and adaptation actions; (ii) Colombia's Long-term Climate Strategy Term - E2050, proposed as an instrument of State			20	20
	Policy to strengthen the country's resilience and guide the transformation towards	Accounting Metric		(1)	(2)
	a low-carbon economy; (iii) the Alliance for Carbon Neutrality, which involves the participation of the private sector. At the sectoral level, the Refinery employs the	Unit of measure		Rate	Rate
	Comprehensive Climate Change Management Plan for the Mining and Energy	Refinería de Cartagen	a	-	0,19
	sector (PIGCCme for its Spanish acronym), which defines the specific mitigation, adaptation, governance and knowledge actions to contribute towards national and the				
	corporate GHG reduction goals. Water resources and biodiversity management in the Barrancabermeja Refinery are aligned with government guidelines and the "Program	Code	EM-RM-540a.2		
	for efficient water use and saving" issued by Law 373 of 1997 of the MADS. The Company's Management System defines the process of hazard identification and assessment and risk assessment in order to control the intrinsic risks in a process, area or activity, establishing the necessary measures to eliminate or mitigate the probability of occurrence of negative events and those that generate losses. Finally, the Refinery has environmental permits for the use of resources with the Regional Autonomous Corporation of Santander - CAS, as well as an Environmental Management Plan wherein the mechanisms to manage the risks and opportunities associated with each legal and regulatory feature thereof are defined.	Accounting Metric	Challenges to Safety Systems indicator rate (Tier	3)	
		Unit of measure	Rate		
				2021	
		Accounting Metric		(1)	
		Unit of measure		Rate	
		Refinería de Barranca	bermeia	Not available fo	r 2021
Refinería	Regulatory projects that are issued by the government and that entail environmental	Refinería de Cartager		Not available fo	r 2021
de Cartagena	requirements for which there is no installed capacity within Refinery's equipment and operations to comply with said prerequisite are identified as risks.			2021	
	An identified opportunity is the space for dialogue and agreement with the government	Accounting Metric		(1)	
	that occurs prior to the authorization of said administrative acts that occurs within the legislative procedures Cartagena Refinery and Ecopetrol have to undertake.			Rate	
	GHG emissions and air quality: There is a portfolio of 2020-2030 decarbonization	Refinería de Cartage	าล	4,25	
	initiatives aligned with the Ecopetrol Group's 2040 Strategy. Regarding the GHG emission reduction goal, a cumulative reduction of 34,822 tons of CO ₂ e/year was achieved in 2021, which meant the realization of 146% of the established goal				
	(23,900 tons of CO ₂ e/year). Based on the foregoing, the Cartagena Refinery has be	Code	EM-RM-540a.3		
	included in the Colombian Low Carbon Development Strategy (CLCDS) led by MADS and the country's GHG reduction goals.	Accounting Metric	Discussion of measurement of Operating Disciplir Performance through Tier 4 Indicators	e and Manageme	nt System
	Management of water resources and biodiversity: The Cartagena Refinery has developed initiatives for water saving and the efficient use, reuse and recirculation of water in its operations, as well as initiatives for the management and treatment of wastewater. These types of actions are aligned with government guidelines and the "Program for efficient water use and saving" issued by Law 373 of 1997 of the MADS. Additionally, it is currently involved in implementing the project "Plan for	Unit of measure	Discussion and analysis		
			2021		
		Accounting Metric	(1)		
		Refinería de	The management and monitoring of the performa	nce of the Risk ar	d Critical
	reconversion to clean technologies for wastewater management" to comply with the new regulations for discharges into marine waters, under Resolution 883 of 2018. All these initiatives are also aimed at improving the quality of discharges and the protection of marine biodiversity.	Barrancabermeja	Incident Management System through Tier 4 indic by the Refinery's senior management through the (Structured Operation, Static Equipment, Rotating Electronics, Electrical Equipment, Maintenance) a	ators is carried o Asset Manageme Equipment, Cont	ut with oversigh ent committees rol and

Dynamic risk management: through the Management System, the Company anticipates, recognizes, evaluates and controls risks that may affect people, the surroundings, the environment or communities, ensuring the application of controls and dynamic risk management. Additionally, the company contributes in the circular economy and national hazardous waste policy, participating with the MADS to define management policies and the comprehensive management of waste and hazardous waste to implement circular economy projects and initiatives.

Critical Incident Risk Management

Init of measure	
Refinería de Barrancaber	meja
Refinería de Cartagena	
ccounting Metric	
Init of measure	
Refinería de Cartagena	
Code	EM-RI
Accounting Metric	Challe
Unit of measure	Rate
Accounting Metric	
Jnit of measure	
Refinería de Barrancaber	meja
Refinería de Cartagena	
Accounting Metric	
Unit of measure	
Refinería de Cartagena	

Code	EM-RM-540a.3
Accounting Metric	Discussion of measurement of Operating Discipline and Management System Performance through Tier 4 Indicators
Unit of measure	Discussion and analysis

Accounting Metric	
Refinería de Barrancabermeja	The ma Inciden by the F (Structu Electro
Refinería de Cartagena	At the C manage
	At Mana
	At the C risk red

Cartagena Refinery, operating safety risk management is monitored and ged through the following indicators and scenarios:

nagement level: Incident Severity Indicator ASP N1

Operational level: Incident Severity Indicators ASP N1, ASP N1 Index, VH-H . duction index

RESOURCE TRANSFORMATION





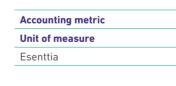


RT-CH-000.A	
Production by reportable segment	
Metric tons (ton)	
	2021
	(1)
	ton
	499.759
	2020
	(1)
	ton
	487.403
	Production by reportable segment



Greenhouse Gas Emissions

Code	RT-CH-110a.1
Accounting Metric	Gross global Scope 1 emissions, perc emissions-limiting regulations
Unit of measure	Metric tons (t) CO_2 -e, Percentage (%)



Accounting metric	(1)	(2)
Unit of measure	tonCO ₂ e	%
Esenttia	62.297,30	Not apply ¹





I-110a.1
global Scope 1 emissions, percentage covered under ions-limiting regulations

20	2021		
(1)	(2)		
tonCO ₂ e	%		
60.983,09	Not apply ¹		
20	21		

¹ A percentage covered under the regulatory GHG emissions limit does not apply because there is no regulation associated to such emitted emissions [or methane] in Colombia.

Code Αссοι

Unit d

Esent

	Discussion of lower terms and also at terms starts may a plan to assume Course 1
ounting Metric	Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets
of measure	Discussion and analysis
	2021
ıttia	The Ecopetrol Group committed to reaching net-zero emissions by 2050 (Scopes 1 and 2), and to reduce CO_2 emissions 25% by 2030 versus 2019 (Scopes 1 and 2), as well as to reduce 50% of total emissions by 2050 (Scopes 1, 2 and 3). To achieve this, Ecopetrol and each of its subsidiaries have defined actions to reduce GHG emissions consistent with their climate goals.
	In the short term:
	 Achieve carbon neutral certification.
	 Define a budget to carry out their Decarbonization Strategy.
	• Expand the decarbonization portfolio by searching for leveraging strategies.
	In the medium term:
	 Execute the corporate Climate Change Strategy in line with the 2030 Agenda and aligned with the parent company.
	 Implement initiatives focused on reducing GHG emissions from flaring (optimizing the process through technical changes in ethylene and propylene compressors).
	 Exploring initiatives to recover exhaust gas emissions from cogenerators and improve their efficiency.
	 Strengthen the Energy Efficiency Program.



Air Quality

Code	RT-CH
Accounting Metric	Air en (3) vol
Unit of measure	Microg

		20)21	
Accounting Metric	(1)	(2)	(3)	(4)
Unit of measure	µg/m³	µg/m³	µg/m³	µg/m³
Esenttia	676,82	-	-	-
		20	120	
Accounting Metric	(1)	(2)	(3)	(4)
Unit of measure	µg/m³	µg/m³	µg/m³	µg/m³
Esenttia	686,37	_	-	_

Energy Management

Code	RT-CH
Accounting Metric	(1) Tot (4) tot
Unit of measure	Gigajo

		20	21	
Accounting Metric	(1)	(2)	(3)	(4)
Unit of measure	GJ	%	%	GJ
Esenttia	1.442.703	61,18	0,22	606,11

		20	20	
Accounting Metric	(1)	(2)	(3)	(4)
Unit of measure	GJ	%	%	GJ
Esenttia	1.479.042	59,70	0,10	596,05

CH-120a.1

emissions of the following pollutants: (1) NOX (excluding N2O), (2) SOX, olatile organic compounds (VOCs), and (4) hazardous air pollutants (HAPs) ograms per cubic meter (µg/m3)

CH-130a.1

Total energy consumed, (2) percentage grid electricity, (3) percentage renewable, otal self-generated energy

ijoules (GJ), percentage (%)

Water Management

Code	RT-CH-140a.1			
Accounting Metric	(1) Total water withdrawn, (2) t with High or Extremely High B		· I 🦉	each in regions
Unit of measure	Thousand cubic meters (m ³), P	ercentage (%)		
		20	21	
Accounting Metric	(1) ¹	(2)	(3)	(4)
Unit of measure	Mil m³	Mil m³	%	%
Esenttia	1,01	867,50	100	100
		20	20	
Accounting Metric	(1) ¹	(2)	(3)	(4)
Unit of measure	Mil m ³	Mil m ³	%	%

Esenttia	1.030	

¹ The water extracted is provided by a third party and the data reported is for the sum of raw and drinking water.

Code	RT-CH-140a.2
Accounting Metric	Number of incidents of non-compliance associated with water quality permits, standards, and regulations
Unit of measure	Number
	2021
Accounting metric	(1)
Unit of measure	Number
Econttia	11

¹ Non-compliance associated with this metric for the period owing to concern due to wastewater from the Industrial and Domestic Wastewater Treatment Plant in the Chemical Oxygen Demand (COD) and Biochemical Oxygen Demand (BOD) assessments for the samples taken in September within the second semester of 2021. These samples were repeated in December 2021 with a "COMPLIANT" result.

	2020
Accounting metric	(1)
Unit of measure	Number
Esenttia	

Descrip to mitig
Discus

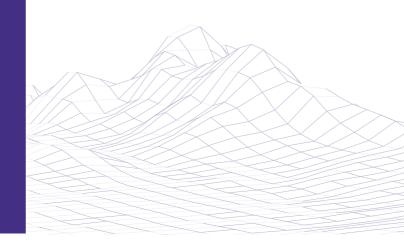
Esenttia	Desc
	The its u
	spec
	treat
	prob

Waste management

Code	RT-CH-
Accounting Metric	(1) Amo
Unit of measure	Metric

Accounting me	etric
Unit of measu	re
Esenttia ¹	
	pandemic restrictions, v there was a progressive

	20	2020	
Accounting metric	(1)	(2)	
Unit of measure	ton	%	
Esenttia	146	39	



H-140a.3

iption of water management risks and discussion of strategies and practices igate those risks

ssion and Analysis

2021

scription of the risks:

e depletion of water resources is considered within the impacts produced by use, and therefore we conduct day-to-day controls at our points of operation ecified in the water reduction and use program. Additionally, water used is ated in a wastewater plant located in the free trade zone facilities, reducing the obability of contaminating the body of water.

H-150a.1

nount of hazardous waste generated, percentage recycled

c tons (ton), percentage (%)

20	21
(1)	(2)
ton	%
197,82	36,60

, work was carried out with the minimum workforce and all execution of large infrastructure projects was e reactivation of activities, thus increasing the generation of hazardous waste among these unrecyclable SOCIAL CAPITAL

Community Relations

HUMAN CAPITAL

Workforce Health & Safety

ode	RT-CH-210a.1	Code	RT-CH-320a.1		
counting Metric	Discussion of engagement processes to manage risks and opportunities associated with community interests	Accounting Metric	(1) Total recordable incident rate (TRIR) and (2) fatality rate for (a) direct emplo and (b) contract employees		
it of measure	Discussion and analysis	Unit of measure	Rate		
	2021			20)21
Esenttia	In 2021, the Company strengthened the citizen services office, prioritizing the relationship with the communities and the national authorities in order to guarantee the ability to address their expectations, requests and complaints, in order to guarantee that the Company could fulfill their expectations, and to uphold and strength these mutually beneficial trust-based relationships.	Accounting metric		(1)	(2)
		Unit of measure		Rate	Rate
		Esenttia		-	-
	The Company's Social Value Generation process coordinates with the communities the Environment and Social Development Strategy. Likewise, it is responsible for directing the Strategic Social Investment, which is based on four subject pillars that are Economic Development, Education and Culture, Housing			20	20
		Accounting metric		(1)	(2)
	and Environment, and Health, which aim towards:	Unit of measure		Rate	Rate
	 The economic development of communities, giving priority to social entrepreneurship models. 	Esenttia		-	-
	 Strengthening the public's culture towards recycling and the proper disposal of plastic waste. 				
	 Generating innovative solutions for urban furniture and other uses of recycled plastic. 	Code	RT-CH-320a.2		
	 Improving the quality of education to encourage the development of Cartagena and contribute towards education regarding the circular economy. 	Accounting Metric	Accounting Metric Description of efforts to assess, monitor, and reduce exposure of employees contract workers to long-term (chronic) health risks		
	Positioning plastic as an element of social transformation.	Unit of measure	Discussion and analysis		
	 Contributing to the improvement of health and well-being in the areas of influence of Esenttia and the Ecopetrol Group. 				
	 Providing health, social and disaster relief assistance in the areas of influence of Esenttia, of the Ecopetrol Group, and in the areas of the country that areas in 	Esenttia	2021 In order to evaluate, monitor and reduce emplo	wees' and contract	
	 that require it. Encouraging inclusion of the vulnerable population in the aforementioned initiatives. 	Listindia	to long-term (chronic) health risks, Esenttia maintains an updated GHS (Globa Harmonized System) in each production stage. In addition, it implements the Occupational Hygiene Program to measure and characterize hygienic agents		
	One of the basic principles our relationship with our stakeholders is respect for human rights: "Respect the rights of stakeholders, in accordance with Esenttia's guidelines thereon".		based on the documentation for Threshold Limit Values and Biological Indices for chemical substances and physical agents of the American Co of Governmental Industrial Hygienists (ACGIH). In 2021, the hygiene me		gical Expos can Confer
	Essentia, as a Group company, applies the Ecopetrol Group ´s Guidelines on Human Rights and implements it in its operations.		results continue below the permissible limits; that is, without an occupationa exposure with the potential to generate occupational diseases.		

70

BUSINESS MODEL AND INNOVATION

Product design for use-phase efficiency

Code	RT-CH-410a.1	
Accounting Metric	Revenue from products designed for usephase resource efficiency	
Unit of measure	Reporting currency	
		2021
Accounting metric		(1)
Unit of measure		COP \$
Esenttia		4.313 millones
		2020
Accounting metric		(1)

Accounting metric	(1)
Unit of measure	COP \$
Esenttia	10.201 millones

Code	RT-CH-410b.1
Accounting Metric	(1) Percentage of products that contain Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Category 1 and 2 Health and Environmental Hazardous Substances, (2) percentage of such products that have undergone a hazard assessment
Unit of measure	Percentage (%) by revenue, Percentage (%)

	2021		
Accounting metric	(1)	(2)	
Unit of measure	%	%	
Esenttia ¹	-	-	

¹ The chemicals produced in Esenttia are not considered Category 1 and 2 Health and Environmental Hazardous Substances.

	2	020	
Accounting metric	(1)	(2)	
Unit of measure	%	%	
Esenttia ¹		Information not available for 2020.	



RT-CH-410b.2

Code

Esenttia

Code

2021

Accounting Metric

Unit of measure

Accounting Metric

Unit of measure

Discussion of strategy to (1) manage chemicals of concern and (2) develop alternatives with reduced human and/or environmental impact

Discussion and analysis

2021

The chemicals produced in Esenttia are not considered Category 1 and 2 Health and Environmental Hazardous Substances, so it is not necessary that they undergo a hazard assessment. Regarding the chemicals used as raw material for production, such as catalysts and selectivity control agents, etc., their hazard potential is identified through the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and the respective Material Safety Data Sheets (MSDS) of the product. For their risk assessment, the type of hazard (physical, health or environmental), the effect (occupational accident, occupational disease due to exposure) is identified. Based thereon, the respective methodology is used to assess the risk. Risk management is carried out through the guidelines established by Esenttia's OSH management system, implementing control systems at the source, during the process and, finally, at the worker level.

RT-CH-410c.1

Percentage of products by revenue that contain genetically modified organisms [GMOs]

Percentage (%) by revenue

This metric does not apply to reporting companies in this subsector, since the company does not use genetically modified organisms.

LEADERSHIP AND GOVERNANCE

Management of the Legal & Regulatory Environment

Operational Safety, Emergency Preparedness & Response

Code	RT-CH-530a.1	Code	RT-CH-540a.1			
Accounting Metric	Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry	Accounting Metric	(1) Process Safety Incidents Cou (PSTIR), and (3) Process Safety I			ncident Rate
nit of measure	Discussion and analysis	Unit of measure	Number, rate			
	2021				2021	
senttia	For now, Esenttia and its clients have not been greatly affected by regulations restricting the use of plastic. Regulations that apply to purchases of single-use	Accounting metric		(1)	2021 (2)	(3)
	plastic products by public institutions are being closely watched.	Unit of measure		Number	Rate	Rate
	Esenttia monitors the progress of the Single-Use Plastics legislation throughout its different deliberations in the House of Representatives and public hearings in the Senate and actively participates with observations.	Esenttia		-	-	-
					2020	
	Internationally, Esenttia monitors the progress of single-use plastic standards that have come into force, such as those of Mexico City, Buenos Aires, and San	Accounting metric		(1)	(2)	(3)
	José de Costa Rica, as well as the regulations in Peru and Ecuador. To address	Unit of measure		Number	Rate	Rate
	this issue with customers, the Company is seeking alternatives to substitute biopolymers, focusing on those that are compostable to comply with ASTM D6400 and EN 13432 standards.	Esenttia		-	-	-
	Additionally, Esenttia has carried out work to close the loop of the plastics cycle, which includes extending the PlastiTON recycling program to companies, schools, universities and other allies. Additionally, progress has been made	Code	RT-CH-540a.2			
	in the ReCircular project, which in 2021 was able to purchase over 200 tons	Accounting Metric	Number of transport incidents			
	of post-consumer plastic and began transforming 25 tons in order to start the transformation and commercialization process with customers. This whole process seeks - with real actions and proven numbers - to support the conversation on the recyclability of polypropylene and polyethylene.	Unit of measure	Number			
	As part of the company's preparations for the Law on the Prohibition of Plastics					2021
	(this regulation still lacks a final determination by the Ministry of Environment	Accounting metric				(1)
	and Sustainable Development), Esenttia is working jointly with the recyclers of the island of San Andres to collect disposable cups, providing additional support for	Unit of measure				Number
	the use of this product, which its client sells there from its raw material.	Esenttia				-
		A				2020
		Accounting metric				(1)
		Unit of measure				Number
		Esenttia				-

RENEWABLE RESOURCES & ALTERNATIVE ENERGY







ACTIVITY METRICS

Code	RR-BI
Accounting Metric	Biofue
Unit of measure	Millior

	2021
Accounting metric	(1)
Unit of measure	Mgal
Ecodiesel Colombia S.A. (Ecodiesel)	40,22

RR-BI-
Produc and (4)
Million

	2021			
Accounting Metric	(1)	(2)	(3)	(4)
Unit of measure	Mgal	Mgal	Mgal	Mgal
Ecodiesel	-	40,22	-	-

Code	RR-BI-000.C	
Accounting Metric	Amount of feedstock consumed in production	
Unit of measure	e Metric tons (ton)	

	2021
Accounting metric	(1)
Unit of measure	ton
Ecodiesel	133.1271

¹ Crude palm oil (CPO) and palm fatty acids (PFAD)

I-000.A lel production capacity

ons of gallons (Mgal)

-000.B

uction of: (1) renewable fuel, (2) advanced biofuel, (3) biomass-based diesel,) cellulosic biofuel

ns of gallons (Mgal)

ENVIRONMENT

Air Quality

Code	RR-BI-120a.1				
Accounting Metric	Air emissions of the volatile organic com air pollutants (HAPs	npounds (VOCs)			
Unit of measure	Metric ton (ton)				
			2021		
Accounting Metric	(1)	(2)	(3)	(4)	(5)
Unit of measure ¹	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m³

¹ Data is only available in mg/m³concentration units of measurement. Additionally, the comparison of the concentrations of pollutants corrected to a reference oxygen content is provided based on the standards recognized in Resolution 909 of 2008 of the Ministry of Environment, Housing and Territorial Development (MAVDT for its Spanish acronym).

Code	RR-BI-120a.2
Accounting Metric	Number of incidents of non-compliance associated with air quality permits, standards, and regulations
Unit of measure	Number

	2021
Accounting metric	(1)
Unit of measure	Number
Ecodiesel ¹	-

¹ To date, the company has not had any non-compliance incidents associated with air and environmental quality.

Water Management

Code	RR-BI-140a.1			
Accounting Metric	(1) Total water withdrawn, (2) withdrawn y (4) percentage wa Baseline Water Stress M			
Unit of measure	Thousand cubic meters (m³), P	ercentage (%)		
		20	21	
Accounting Metric	(1)	(2)	(3)	(4)
Unit of measure	Mil m ³	Mil m ³	%	%
Ecodiesel	73.187 ¹	65.714	-	-

¹ This data provided is for water consumption in operations. Ecodiesel does not withdraw/extract water, but rather uses water from the public utility (aqueduct) for its operations.

Code	RR-BI
Accounting Metric	Descr to mit
Unit of measure	Discu

Ecodiesel	Descr consu
	• N v
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	• C

Code	RR-BI-
Accounting Metric	Numbe standa
Unit of measure	Numbe

Accounting metric	
Unit of measure	
Ecodiesel	

I-140a.2

iption of water management risks and discussion of strategies and practices igate those risks

sion and analysis

2021

- ription of the risks associated with water or wastewater withdraw/extraction, umption and release:
- Non-compliance with legislation and regulation due to industrial wastewater treatment.
- Harm to the company's reputation because of environmental impact to affected parties.
- Occurrence of major environmental events in our influential bodies of water.
- Increased consumption of water resources due to failures in production process controls.
- Description of the possible effects of operational risks:
- Contamination of water sources.
- Detriment to the endemic fauna and flora of the area exposed to the impact.
- Clogging and sedimentation.
- Contamination during distribution (product containment losses).
- Depletion of water resources.
- Changes in water treatment processes (industrial waste).
- Description of short and long-term mitigation strategies or plans,
- management objectives, best practices, and/or offsets:
- Optimized industrial wastewater treatment processes.

-140a.3

er of incidents of non-compliance associated with water quality permits, ards, and regulations

er

2021
(1)
Number

BUSINESS MODEL AND INNOVATION

Lifecycle Emissions Balance

Code	RR-BI-410a.1
Accounting Metric	Lifecycle greenhouse gas (GHG) emissions, by biofuel type
Unit of measure	Grams of CO ₂ -e per megajoule (MJ)

	2021		2021
Accounting metric		Accounting metric	(1)
	2qC0, e/MJ	Unit of measure	Reporting currency
Unit of measure	- 2	Ecodiesel	
Ecodiesel	26,88 ¹		

¹ Emissions from advanced biofuel produced calculated according to the ISO 14040 product life cycle assessment methodology throughout the supply chain.

Sourcing & Environmental Impacts of Feedstock Production

Code	RR-BI-430a.1
Accounting Metric	Discussion of strategy to manage risks associated with environmental impacts of feedstock production
Unit of measure	Discussion and analysis

Accounting metric	(1)
Ecodiesel	Information not available for 2021

Code	RR-BI-430a.2
Accounting Metric	Percentage of biofuel production third-party certified to an environmental sustainability standard
Unit of measure	Percentage (%) of gallons

	2021
Accounting metric	(1)
Unit of measure	%
Ecodiesel	61,82 ¹

¹ International Sustainability and Carbon Certification (ISCC) following the Renewable Energy Directive (RED)

	2021
Accounting metric	(1)
Unit of measure	Reporting currency
Ecodiesel	-

Code	RR-BI-
Accounting Metric	Discus: propos
Unit of measure	Discuss

Ecodiesel

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Str	ateg
•	Op
	In

0	noratio		fatu	Emo	raon
	peratio	iat Jo	nety,	LINE	i yeni

Code	RR-BI-
Accounting Metric	(1) Proc (PSTIR)
Unit of measure	Numbe

2021

LEADERSHIP AND GOVERNANCE

Management of the Legal & Regulatory Environment

I-530a.1

unt of subsidies received through government programs rting currency

-530a.2

ssion of corporate positions related to government regulations and/or policy sals that address environmental and social factors affecting the industry

ssion and analysis

2021

- Regulatory risk pricing:
- Value added tax (VAT) on imports
- VAT exemption on biofuel (tax risk)
 - Loss of tax benefits (Fuel Price Stabilization Fund)
- Market risks:

•

•

- Search for other renewable fuels can lead to lost market share
- Opportunities:
- Diversify into new markets (oleochemical, bio-fractions, phytosanitary)
 - Export Biodiesel
- Cold Soak Filtration Test (CSFT) and moisture removal for higher quality
 - biofuels; increase blend percentage
 - lew technologies
 - egies:
 - Optimize processes, improving quality and reducing costs
 - Increase client base

ncy Preparedness & Response

-540a.1

ocess Safety Incidents Count (PSIC), Process Safety Total Incident Rate R), and Process Safety Incident Severity Rate (PSISR)

er, rate

Information not available for 2021.

INFRASTRUCTURE



ACTIVITY METRICS

Code	IF-GU
Accounting Metric	Numb
Unit of measure	Numb

Accounting Metric
Unit of measure

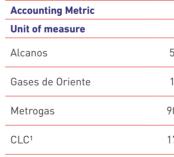
Alcanos de Colombia S.A. E.S.P. (Alcanos)

Gases del Oriente S.A. E.S.P. (Gases de Oriente) Metrogas de Colombia

S.A E.S.P. (Metrogas) Combustibles Líquidos¹ de Colombia S.A E.S.P. (CLC)

¹ CLC reports data in \$COP/Kg. CLC custome ² Official customers

Code	IF-GU-
Accounting Metric	Amour custor
Unit of measure	Million



¹ CLC reports data in \$COP/Kg. CLC customers are classified into: (1) cylinders; (2) bulk; (3) forklift ² Vehicular natural gas (VNG) ³ Official customers ⁴ Other vendors







J-000.A

ber of: (1) residential, (2) commercial, and (3) industrial customers served ber

2021			
(1)	(2)	(3)	(4) ²
Number	Number	Number	Number
945.922	11.490	220	509
203.470	1.553	9	Not apply
145.947	1.819	19	34
5.410	498	257	Not apply

¹ CLC reports data in \$COP/Kg. CLC customers are classified into: (1) cylinders; (2) bulk; (3) forklift

-000.B

Int of natural gas delivered to: (1) residential customers, (2) commercial mers, (3) industrial customers, (4) transferred to a third party and (5) others n British Thermal Units (MMBtu)

		2021		
(1)	(2)	(3)	(4)	(5)
MMBtu	MMBtu	MMBtu	MMBtu	MMBtu
5.058.227	711.105	401.521	574.718 ²	38.605 ³
1.245.351	110.020	330.825	-	Not apply
900.843,78	172.620,34	66.510,36	48.948,86 ²	12.026,114
17.902.425	4.560.848	918.698	-	Not apply

Code	IF-GU-000.C		
Accounting Metric	Length of gas (1) transmission and (2) distribut	tion pipelines Kilome	ters(km)
Unit of measure	Million British Thermal Units (MMBtu)		
		20	021
Accounting Metric ¹		(1)	(2)
Unit of Measure		Km	Km
Alcanos		-	14.521
Gases de Oriente		-	3.084
Metrogas		-	1.834,80
CLC ¹		Not apply	Not apply
Progasur ²		375	-

¹ CLC sells LPG cylinders. It does not have gas transmission or distribution pipelines.
² Progasur is a natural gas transport company whose commercial activity is the operation of gas pipelines.

SOCIAL CAPITAL

Energy Affordability

Code	IF-GU-240a.1				
Accounting Metric	Average retail gas rate for (1) residential, (2) commercial, (3) industrial custome and (4) transportation services only (5) others				
Unit of measure	Reporting currency				
			2021		
Accounting Metric	(1)	(2)	(3)	(4)	(5)
Unit of measure	COP \$	COP \$	COP \$	COP \$	COP \$
Alcanos	66.667,31	57.264,39	42.326,50	43.736,83	54.912,53²
Gases de Oriente	71.078	53.010	30.729	-	Not apply
Metrogas	52.140	42.284	40.549	-	Not apply
CLC ¹	3.369,02	3.133,31	3.363,65	Not apply	Not apply

¹ CLC reports data in \$COP/Kg. CLC customers are classified into: (1) cylinders; (2) bulk; (3) forklift ² Official customers

Code	IF-GU-240a.2
Accounting Metric	Typical monthly gas bill for residential customers for (1) 50 MMBtu and (2) 100 MMBtu of gas delivered per year
Unit of measure	Reporting currency

	20	21
Accounting Metric ¹	(1)	(2)
Unit of measure	COP \$	COP \$
Alcanos	29.708	Not apply
Gases de Oriente	3.132	Not apply
Metrogas	26.101,60	Not apply
CLC ¹	Not apply	Not apply

¹ CLC does not have typical monthly billing because it sells LPG gas cylinders.

2.682 Gases de Oriente

40a.3

er of residential customer gas disconnections for non-payment, (2) ge reconnected within 30 days, (3) analysis of the effect of policies, programs, lations on the number and duration of residential customer outages.

percentage (%) and discussion and analysis

	(2)	2021
	(2)	(3)
ber 17	70	Discussion and analysis Law 142 of 1994, specifically Articles 130, 140, 141 and 142, establishes the general guidelines for the disconnection, contract termination of and reconnection of public services. Additionally, its Article 39 establishes the requirements for contracts regarding the provision of public services for the distribution and/or sale of gas through network in the regulated market.
		 Suspension of service (disconnection): The company may suspend the public service of gas distributed through network in the following cases, without thereby generating any liability: Suspension for breach of contract: The company may suspend the service for breach or violation of the contract by the SUBSCRIBER and/or USER, among others, in the following cases: "For non-payment of at least one (1) billing cycle, without exceeding two (2) billing cycles or any of the items charged in the invoice for services previously authorized by the SUBSCRIBER and/or USER, which are directly related to the service, unless there is a claim or appeal filed, in which case the suspension will proceed due to the non-payment of the amounts that are not included in the claim. There will be no suspension of service for any debts the SUBSCRIBER and/or USER has with third parties other than THE COMPANY". Payment plans: The company has payment plans that allow the user to avoid service suspension or, in the event that have already been disconnected, reconnect them without the user having to pay the full amount past due. These policies are recorded and the information dully stored
2	77	 The service disconnection policy is executed after one (1) month's payment is past due, which complies with Law 142 of 1994. The Past-Due Accounts Policy allows users with financial difficulties to reach a payment plan and avoid the suspension of their service. The service will be reconnected once the pays the full amount due, and they must be then reconnected within the following 24 hours.

Continue to next page

Accounting Metric						
	(1)	(2)	(3)			•
Unit of measure	Number	%	Discussion and analysis			
Metrogas	1.085	93	According to the Payment Policy, in order for service to be reconnected or to avoid suspension, the user			•
			must pay at least 50% of the outstanding invoice			•
			in the case of residential use, or 60% in the case of commercial and industrial use. When there are			
			more than five (5) past due invoices, the client			
			must pay the full amount or reach a payment plan			•
			with the company. Metrogas also has the Uniform Conditions Contract, which indicates in Chapter IX,			
			Suspensions and Reconnections, the conditions and			Н
			causes for suspending and restoring services.			th
			The Payment Policy complies with the provisions of			()
			Law 142 of 1994 on Residential Public Services.			^
CLC			Not apply			A
						na
						so m
					Metrogas	Ex
Code	IF-GU-240a.4				Metrogas	ind
Accounting Metric			rnal factors on customer affordability of gas, including he service territory			•
Jnit of measure	Discussion an	d analysis				
						•
			2021			
Alcanos	Among the e	xternal factor	2021			
Alcanos	intense natio	onal strikes, w	s that may generate rate increases are: lengthy and ith a frequency of three [3] strikes per year lasting			
Alcanos	intense natio between one	onal strikes, w (1) and two (2	s that may generate rate increases are: lengthy and ith a frequency of three (3) strikes per year lasting) months; the effects on the road infrastructure, which			•
Alcanos	intense natio between one are directly r winter weath	onal strikes, w (1) and two (2 related to the t ner, with a free	s that may generate rate increases are: lengthy and ith a frequency of three (3) strikes per year lasting) months; the effects on the road infrastructure, which ransport of compressed natural gas (CNG), caused by juency of between one (1) and two (2) times per year			•
Alcanos	intense natio between one are directly r winter weath lasting appro	onal strikes, w (1) and two (2 related to the t ner, with a free oximately thre	s that may generate rate increases are: lengthy and ith a frequency of three (3) strikes per year lasting) months; the effects on the road infrastructure, which ransport of compressed natural gas (CNG), caused by juency of between one (1) and two (2) times per year e (3) months; interruptions in the National Natural Gas			
Alcanos	intense natio between one are directly r winter weath lasting appro Transport Sy preventive m	onal strikes, w (1) and two (2 related to the to her, with a free oximately thre estem may als naintenance w	s that may generate rate increases are: lengthy and ith a frequency of three (3) strikes per year lasting 2) months; the effects on the road infrastructure, which ransport of compressed natural gas (CNG), caused by juency of between one (1) and two (2) times per year e (3) months; interruptions in the National Natural Gas o affect rates, which to date have only occurred due to ith a frequency of one (1) interruption per year lasting			
Alcanos	intense natio between one are directly r winter weath lasting appro Transport Sy preventive m five (5) days.	and strikes, w (1) and two (2) related to the to ner, with a free part of the to the to part of the to the part of the to the to part of the top the top the top to the top top to the top top to the top to the top top top to the top top to the top	s that may generate rate increases are: lengthy and ith a frequency of three (3) strikes per year lasting 2) months; the effects on the road infrastructure, which ransport of compressed natural gas (CNG), caused by juency of between one (1) and two (2) times per year e (3) months; interruptions in the National Natural Gas o affect rates, which to date have only occurred due to ith a frequency of one (1) interruption per year lasting r is the effects of macroeconomic variables such as			•
Alcanos	intense natio between one are directly r winter weath lasting appro Transport Sy preventive m five (5) days. adverse fluct Spanish acro	onal strikes, w (1) and two (2 related to the to ner, with a free oximately three rstem may als naintenance w Another facto tuations in the onym), the Pro	s that may generate rate increases are: lengthy and ith a frequency of three (3) strikes per year lasting 2) months; the effects on the road infrastructure, which ransport of compressed natural gas (CNG), caused by juency of between one (1) and two (2) times per year e (3) months; interruptions in the National Natural Gas o affect rates, which to date have only occurred due to ith a frequency of one (1) interruption per year lasting r is the effects of macroeconomic variables such as o official market exchange market rate (TRM for its ducer Price Index (PPI) and the Consumer Price Index		01.01	•
Alcanos	intense natio between one are directly r winter weath lasting appro Transport Sy preventive m five (5) days. adverse fluct Spanish acro (CPI). Finally	onal strikes, w (1) and two (2) related to the taken per, with a free poximately three restem may alse maintenance w Another factor tuations in the ponym), the Pro- r, there may be	s that may generate rate increases are: lengthy and ith a frequency of three (3) strikes per year lasting 2) months; the effects on the road infrastructure, which ransport of compressed natural gas (CNG), caused by juency of between one (1) and two (2) times per year e (3) months; interruptions in the National Natural Gas o affect rates, which to date have only occurred due to ith a frequency of one (1) interruption per year lasting r is the effects of macroeconomic variables such as official market exchange market rate (TRM for its ducer Price Index (PPI) and the Consumer Price Index e changes in the supply sources due to the productivity		CLC ¹	•
Alcanos	intense natio between one are directly r winter weath lasting appro Transport Sy preventive m five (5) days. adverse fluct Spanish acro (CPI). Finally decline of we Regarding th	and strikes, we (1) and two (2) related to the theor, with a free oximately three stem may als naintenance we Another facto tuations in theory, the Pro- transform, the Pro- theory may be ells and that me the inability of theory of the theory of theory of the theory of the theory of the theory of	s that may generate rate increases are: lengthy and ith a frequency of three (3) strikes per year lasting 2) months; the effects on the road infrastructure, which ransport of compressed natural gas (CNG), caused by juency of between one (1) and two (2) times per year e (3) months; interruptions in the National Natural Gas o affect rates, which to date have only occurred due to ith a frequency of one (1) interruption per year lasting r is the effects of macroeconomic variables such as official market exchange market rate (TRM for its ducer Price Index (PPI) and the Consumer Price Index e changes in the supply sources due to the productivity night result in the need to import gas.		CLC ¹ ¹ Not applicable since CL0	• • N
Alcanos	intense natio between one are directly r winter weath lasting appro Transport Sy preventive m five (5) days. adverse fluct Spanish acro (CPI). Finally decline of we Regarding th as the pande	and strikes, we (1) and two (2) related to the theor, with a free oximately three stem may als baintenance we Another facto tuations in theory, the Pro- transform, the Pro- theory and that me entities and that me the inability of theory and the r	s that may generate rate increases are: lengthy and ith a frequency of three (3) strikes per year lasting 2) months; the effects on the road infrastructure, which ransport of compressed natural gas (CNG), caused by juency of between one (1) and two (2) times per year e (3) months; interruptions in the National Natural Gas o affect rates, which to date have only occurred due to ith a frequency of one (1) interruption per year lasting r is the effects of macroeconomic variables such as official market exchange market rate (TRM for its ducer Price Index (PPI) and the Consumer Price Index e changes in the supply sources due to the productivity hight result in the need to import gas.			• • N
Alcanos	intense natio between one are directly r winter weath lasting appro Transport Sy preventive m five (5) days. adverse fluct Spanish acro (CPI). Finally decline of we Regarding th as the pande economic rea vehicular national	onal strikes, w (1) and two (2) related to the theor, with a free poximately three restem may alse naintenance w Another factor tuations in the poym), the Proo- to, there may be all and that more the inability of u- emic and the r- activation of a tural gas (VNC)	s that may generate rate increases are: lengthy and ith a frequency of three (3) strikes per year lasting 2) months; the effects on the road infrastructure, which ransport of compressed natural gas (CNG), caused by juency of between one (1) and two (2) times per year e (3) months; interruptions in the National Natural Gas o affect rates, which to date have only occurred due to ith a frequency of one (1) interruption per year lasting r is the effects of macroeconomic variables such as official market exchange market rate (TRM for its ducer Price Index (PPI) and the Consumer Price Index e changes in the supply sources due to the productivity night result in the need to import gas.			• • N
Alcanos	intense natio between one are directly r winter weath lasting appro Transport Sy preventive m five (5) days. adverse fluct Spanish acro (CPI). Finally decline of we Regarding th as the pande economic rea vehicular nat portfolio, wh	onal strikes, w (1) and two (2) related to the theor, with a free poximately three restem may alse naintenance w Another factor tuations in the poym), the Proo- to, there may be all and that more the inability of u- emic and the r- activation of a tural gas (VNC)	s that may generate rate increases are: lengthy and ith a frequency of three (3) strikes per year lasting 2) months; the effects on the road infrastructure, which ransport of compressed natural gas (CNG), caused by juency of between one (1) and two (2) times per year e (3) months; interruptions in the National Natural Gas o affect rates, which to date have only occurred due to th a frequency of one (1) interruption per year lasting r is the effects of macroeconomic variables such as official market exchange market rate (TRM for its ducer Price Index (PPI) and the Consumer Price Index e changes in the supply sources due to the productivity night result in the need to import gas.			• • N
Alcanos Gases de Oriente	intense natio between one are directly r winter weath lasting appro Transport Sy preventive m five (5) days. adverse fluct Spanish acro (CPI). Finally decline of we Regarding th as the pande economic rea vehicular nat portfolio, wh to-date 2021	anal strikes, w (1) and two (2) related to the the ner, with a free particular the stem may alse naintenance w Another factor tuations in the ponym), the Pro- r, there may be cells and that no the inability of u emic and the re- activation of a tural gas (VNC ich at the pea has recovere- area of influe	s that may generate rate increases are: lengthy and ith a frequency of three (3) strikes per year lasting 2) months; the effects on the road infrastructure, which ransport of compressed natural gas (CNG), caused by juency of between one (1) and two (2) times per year e (3) months; interruptions in the National Natural Gas o affect rates, which to date have only occurred due to ith a frequency of one (1) interruption per year lasting r is the effects of macroeconomic variables such as official market exchange market rate (TRM for its ducer Price Index (PPI) and the Consumer Price Index e changes in the supply sources due to the productivity night result in the need to import gas.			• • N
	intense natio between one are directly r winter weath lasting appro Transport Sy preventive m five (5) days. adverse fluct Spanish acro (CPI). Finally decline of we Regarding th as the pande economic rea vehicular nat portfolio, wh to-date 2021	and strikes, w (1) and two (2) related to the theorem with a free part with a free part of the steen may alse related to the theorem and theorem and theorem theorem and theorem and theorem theorem and theorem and theorem and theorem theorem and theorem and theorem and theorem and theorem and theorem theorem and theorem and	s that may generate rate increases are: lengthy and ith a frequency of three (3) strikes per year lasting 2) months; the effects on the road infrastructure, which ransport of compressed natural gas (CNG), caused by juency of between one (1) and two (2) times per year e (3) months; interruptions in the National Natural Gas o affect rates, which to date have only occurred due to ith a frequency of one (1) interruption per year lasting r is the effects of macroeconomic variables such as o official market exchange market rate (TRM for its ducer Price Index (PPI) and the Consumer Price Index e changes in the supply sources due to the productivity night result in the need to import gas.			• • N
	intense natio between one are directly r winter weath lasting appro Transport Sy preventive m five (5) days. adverse fluct Spanish acro (CPI). Finally decline of we Regarding th as the pande economic rea vehicular nat portfolio, wh to-date 2021 In the major Gases del Or its metropoli	anal strikes, w (1) and two (2) related to the factor period the factor period the factor transmission of the factor transmission of the factor the factor	s that may generate rate increases are: lengthy and ith a frequency of three (3) strikes per year lasting 2) months; the effects on the road infrastructure, which ransport of compressed natural gas (CNG), caused by juency of between one (1) and two (2) times per year e (3) months; interruptions in the National Natural Gas o affect rates, which to date have only occurred due to ith a frequency of one (1) interruption per year lasting r is the effects of macroeconomic variables such as official market exchange market rate (TRM for its ducer Price Index (PPI) and the Consumer Price Index e changes in the supply sources due to the productivity night result in the need to import gas. Users to pay their bills, there are influential factors such esulting economic crisis, which have slowed down the Il sectors, including the commercial sector and that for s). The tax reform creates recovery risks for the product k of the pandemic in 2020 reached 17.3%, which year- d to 8.6%.			

Continue to next page

2021

- Disconnection to the national transport system or alternative supply sources that provide stability to the operation in order to provide uninterrupted service delivery to regulated users.
- Informal employment is the main economic activity in the area.
- The area has high unemployment levels, ranking Cúcuta among the highest on the unemployment scale nationwide.
- The low number of manufacturing companies that generate high employment in the region.
- Expansion zones are limited by the existence of illegal neighborhoods or sectors to which the service cannot be supplied.

ever, there are growth opportunities in new housing construction projects in egion resulting from the economic reactivation of the construction sector and ulated by the National Government through Projector Social Interest Housing for its Spanish acronym) and non—VIS subsidies.

tionally, agreements can be reached with official entities such as the Fondo cial Cuota de Fomento para Gas Natural national endowment fund for ral gas to encourage connection to the service of potential users in the lower -economic levels in the municipalities serviced and in the rural areas of the kets of influence.

rnal factors that directly affect gas rates include macroeconomic variables ked to distribution and sales costs, such as:

- The CPI and the PPI are included in the formulas for the monthly update of the rate components used to calculate the unit cost of providing the service (fixed and variable), mainly the distribution charge (D), which in Metrogas' main market represents on average 20% of the rate for the end-user.
- Changes in the foreign exchange rate at the end of each month directly affect the result for average supply (G) and transportation (T) costs, which are components that are part of the unit cost of providing the service (variable), which represent on average 75% of the rate for the end-user
- The Gross Domestic Product (GDP) of the region versus the national total reflects the dynamics and behavior of the local economy.
- Regulatory opportunities impacting gas affordability for customers:
- Transitory tariff option defined by the Energy and Gas Regulation Commission (CREG for its Spanish acronym) in Resolution 048 of 2020.
- Subsidies regime for subsistence consumption (0 to 20 m3) for residential users in socio-economic levels 1 and 2 (socioeconomic classification for households, 1:low-low and 2:low).

apply

stribution & sale of LPG gas in cylinders.

BUSINESS MODEL AND INNOVATION

Code	IF-GU-420a.1		
Accounting Metric	Percentage of gas utility revenues from rate struct contain a lost revenue adjustment mechanism (LR.		decoupled or (2)
Unit of measure	Percentage (%)		
		20	21
Accounting Metric ¹		(1)	(2)
Unit of measure		%	%
Alcanos		Not apply	Not apply
Gases de Oriente		Not apply	Not apply
Metrogas		Not apply	Not apply
CLC		Not apply	Not apply

¹ Not applicable since Colombia does not have decoupled rate structures or lost revenue adjustment mechanism (LRAM) for gas services.

Code	IF-GU-420a.2
Accounting Metric	Customer gas savings from efficiency measures by market
Unit of measure	Million British Thermal Units (MMBtu)

	2021
Accounting Metric ¹	(1)
Unit of measure	MMBtu
Alcanos	
Gases de Oriente	
Metrogas	
CLC	

¹ The gas distribution companies do not have specific incentives to encourage customer gas savings and efficiency measures.



LEADERSHIP AND GOVERNANCE

Integrity of Gas Delivery Infrastructure

Code	IF-GU-
Accounting Metric	Numb (3) Not
Unit of measure	Numb

2021			
(1)	(2)	(3)	
Number	Number	Number	
-	-	-	
-	-	-	
-	-	-	
Not apply	Not apply	Not apply	
	Number - - -	(1) (2) Number Number 	

¹ Not applicable since CLC's infrastructure does not include gas pipelines.

Code	IF-GU-		
Accounting Metric	Percen unprot		
Unit of measure	Percer		

	2021			
Accounting Metric	(1)	(2)		
Unit of measure	% by length	% by length		
Alcanos	100	-		
Gases de Oriente ¹	-	-		
Metrogas	100	-		
CLC ²	Not apply	Not apply		

¹ All steel pipes in the Gases del Oriente distribution system are coated with coal tar enamel in some sections, regular or dual-layer fusion bonded epoxy (FBE) in others, and, additionally, the system has an impressed current cathodic protection (ICCP) system. Gases de Oriente does not have wrought or cast iron or unprotected steel piping. ² CLC does not have a distribution pipeline network.

Code	IF-GU-
Accounting Metric	Percen
Unit of measure	Percen

	2021			
Accounting Metric ¹	(1)	(2)		
Unit of measure	% by length	% by length		
Alcanos	Not apply	70		
Gases de Oriente	Not apply	100		
Metrogas	Not apply	28		
CLC	Not apply	Not apply		
Progasur ²	100	Not apply		

J-540a.1

ber of (1) reportable pipeline incidents, (2) Corrective Action Orders (CAO), and otices of Probable Violation (NOPV)

ber

I-540a.2

entage of distribution pipeline that is (1) cast and/or wrought iron and (2) otected steel

entage (%) by length

I-540a.3

entage of gas (1) transmission and (2) distribution pipelines inspected

entage (%) by length

¹ This metric does not apply where noted because the respective companies do not have this sort of transmission pipeline. ² Progasur's activity is related to the transport of gas from the production fields to the distribution systems and therefore does not reports certain IF-GU metrics.

ccounting Metric	Description of efforts to manage the integrity of gas delivery infrastructure, including risks related to safety and emissions	
nit of measure	Discussion and analysis	
	2021	
lcanos	Alcanos de Colombia has a preventive and corrective maintenance program to maintain the integrity of its gas delivery network and performs recurrence activities to detect and correct infrastructure failures.	
	The Company has an Occupational Health and Safety (OHS) Management System, an HSEQ team with nationwide coverage, an environmental management program, a risk management plan, and a Risk Committee to immediately address any emergency.	
	A preventive approach to safeguarding the various assets, updates and deliverables includes:	
	The Company has identified the location of its assets which are connected through an operations center. Additionally, it has designed emergency and contingency plans for any operational contingency that affects its assets. Likewise, it has an emergency plan in place with an emergency brigade. The occupational health and safety management plan includes job profiles, medical exams, training plans, epidemiological surveillance systems and hygiene assessments.	
	All emergency contact lines are directed to the operations center (CDO for its Spanish acronym) that provides 24/7 attention. It also has emergency response crews equipped with vehicles and equipment for emergency care. Additionally, staff is trained in emergency care and all new developments are addressed in less than one (1) hour.	
	All emergency contact lines are directed to the operations center (CDO for its Spanish acronym) that provides 24/7 attention. It also has emergency response crews equipped with vehicles and equipment for emergency care. Additionally, staff is trained in emergency care and all new developments are addressed in less than one (1) hour.	
Gases de Oriente	To manage the integrity of the gas supply infrastructure, Gases de Oriente implements the following measures:	
	 Ongoing training for the Head of Operation and Maintenance (0&M) and its operational staff through the national training service (SENA for its Spanish acronym) and training provided by suppliers. 	
	 Participation in the Sustainable Gas task force that includes all the national distribution companies in order to share best practices in the execution of 0&M processes. Active involvement in the process safety task force led by Ecopetrol and with the participation of the group of IGC technology heads. 	
	 Implementation of network monitoring activities, indirect integrity evaluations. 	
	 Training of emergency brigade by firefighters; practice drills of fuel gas leakage scenarios; annual earthquake drill. 	
	 Certification and recertification of operators, including CNG operators, in gas technology, labor competencies in internal installations, and thermal fusion for polyethylene pipes. 	
	Additionally, patrol activities are carried out on the whole network to inspect the right of way as well as network monitoring to locate and repair leaks, training is provided with public utility companies to prevent and mitigate network	

To poi

Metrogas

Ther of th

90

2021

To control deliberate emissions, controlled flaring is carried out at the venting points. In sites with higher levels of risk, the location of the pipe and other facilities is identified with signage that includes the emergency line contact number and the name of the company.

There is an existing 0&M program focused on preserving the integrity of the assets, which has an approved budget with all stakeholder parties.

Asset integrity management of the gas pipelines consists of the execution of Close-interval Potential Surveys (CIPS), Pipeline Current Mapper (PCM), corrosion coupons, internal cleaning and monitoring studies. A culture of safety and readiness in case of an emergency is applied through communication with risk organizations, planimetry, and a contingency plan for emergencies.

Personnel is trained on the integrity of gas pipelines and on different techniques for maintaining asset security. In order to mitigate emergencies and encourage readiness should they happen, there is a relationship with the various public service companies (water/aqueduct, electricity and media/communication networks) as well as with third-party companies that provide information on the location and integrity of the assets. To manage health and human safety risks, safety drills are carried out every year involving the community and risk management agencies.

There are emergency service helplines and a call center that address any emergency that may arise 24 hours a day, with timely attention provided within the established time frames. Regarding the direct or indirect financial outlays related to managing the integrity of the gas supply infrastructure, predictive maintenance studies are carried out, the necessary corrective measures are taken in order to mitigate the possible damages caused to the infrastructure and the integrity of networks in order to increase the useful life of the asset.

A certified supplier carries out a yearly partial review of the transfer piping and all its components in compliance with Resolution 40247 of 2016 of the Ministry of Mines and Energy (MM&E for its Spanish acronym) and the Colombian Technical Standard NTC 3853-1.

 The workers are qualified under the NSCL 280202083 V1 ISO labor competencies sector norms, and the LPG transfer systems are operated according to regulations and NSCL 280202097 V1.

 There are risk and disaster management plans, and the plants are equipped with safety systems to identify leaks and temperature sensors.

 A COPASST Committee (Joint Committee on Occupational Health and Safety Management) has been created as a mechanism to oversee and communicate security issues.

 The company has classified its high-risk activities, which are carried out by certified contractors and are documented and have protocols required for each activity.

 The emergency brigades receive ongoing training, with monthly inspections and drills carried out. There are risk and disaster management plans that include the Normalization Operational Plans (PON). In addition, there are maintenance programs and a fire prevention network (RCI) at key points.

 The Occupational Health and Safety Management System is managed under Decree 1072, with the updating of the hazard and risk matrices for each plant.
 There is a national emergency helpline.

• The LPG Safety Data Sheet is disclosed and made available to all workers.

 There are Risk and Disaster Management Plans with the support of the occupational health insurance agencies (ARL for its Spanish acronym) regarding the activities of the Security and Emergency Management System.

 The Maintenance Program for the transfer and packaging systems is executed and certifications are updated according to technical regulations 40246 and 40247 of the MM&E, for the packaging plants.

The company is involved in trade associations and guilds focused towards improving the safety of the hydrocarbon sector (Colombian Safety Council).

INFRASTRUCTURE



ACTIVITY METRICS

Code	IF-EU-
Accounting Metric	Numb
Unit of measure	Numb

Code	IF-EU-
Accounting Metric	Total e other i
Unit of measure	Megav

IF-EU-0
Length
Kilome

	2021
Accounting metric	(1)
Unit of measure ¹	Km
INTERCONEXIÓN ELECTRICA S.A. E.S.P (ISA)	-
ISA CTEEP	20.704
ISA REP	11.836
ISA INTERCOLOMBIA	11.640
ISA INTERCHILE	5.850
ISA TRANSELCA	1.588

subsidiaries.



-000.A

ber of: (1) residential, (2) commercial, and (3) industrial customers served ber

2021

This metric does not apply to the companies reporting in this subsector, since their operations are in the transmission segment of the value chain and they do not have generation or distribution activities.

J-000.B

electricity delivered to: (1) residential, (2) commercial, (3) industrial, (4) all retail customers, and (5) wholesale customers

watt hours (MWh)

2021

This metric does not apply to the companies reporting in this subsector, since their operations are in the transmission segment of the value chain and they do not have generation or distribution activities.

-000.C

of transmission and distribution lines

eters (km)

¹ Unlike its subsidiary companies, ISA does not operate any infrastructure, therefore this metric it only applies to the operations of its transmission

Code	IF-EU-000.D					Code	IF-EU-110a.3
Accounting Metric	Total electricity generated, perc regulated markets	entage by major e	energy source, per	rcentage in		Accounting Metric	Discussion of emissions rec
nit of measure	Megawatt hours (MWh), percen	tage (%)				Unit of measure	Discussion ar
	2021						
	apply to the companies reporting in th t of the value chain and they do not h				-	ISA ISA Intercolombia	The Ecopetr 2), and to red to reduce 50 and each of
ode	IF-EU-000.E						The objectiv
Accounting Metric	Total wholesale electricity purch	hased					before 2030 Nation-soci
Init of measure	Megawatt hours (MWh)						and offsettir
							In 2017, the expected to
	2021						through fore
	apply to the companies reporting in th t of the value chain and they do not h						Concerning distribution
					-		among othe
NVIRONMENT							from the ene Likewise, th
							reduce CO ₂ e
reenhouse Gas Ei	missions & Energy Resource P	lanning					waste gener mobility pro
Code	IF-EU-110a.1						Scope 1 of th
Accounting Metric	(1) Gross global Scope 1 emission limiting regulations, and (3) em			missions-			by fugitive S internationa goal has bee
Jnit of measure	Metric tons (tonCO ₂ e), percenta	ge (%)					2030 for all (
			2020			ISA CTEEP	Grupo ISA's ISA CTEEP's
Accounting Metric		(1) ¹	(2) ²	(3)	-		its own impa
Unit of measure		tonCO,e	%	%	-		Connection Emission re
ISA		Not apply	Not apply	Not apply	-		equal to a re
SA CTEEP		21.903	Not apply	Not apply	-		Short-term
ISA REP		3.198	Not apply	Not apply	-		emissions, e
SA Intercolombia		2.548	Not apply	Not apply	-		Long-term s
ISA Interchile		916	Not apply	Not apply	-		new technol standard, an
SA Transelca		1.992	Not apply	Not apply	-		A 11 1 1
			11.7	11.7	-		Actions to fu Primary eco
	al figures for November and December were not	available, and therefore	e a linear projection wa	s made for these last			Prevent
	zil and Colombia limiting GHG emissions for the e here is a threshold of affectation coming into force						 Reduce gas via During
							followin
Code	IF-EU-110a.2						Develop records
Accounting Metric	Greenhouse gas (GHG) emission	ns associated with	power deliveries				recordk monitor
Unit of measure	Metric tons (tonCO ₂ e)						• Implem
	2						 Acquire the resp

2021

This metric does not apply to the companies reporting in this subsector, since their operations are in the transmission segment of the value chain and they do not have generation or distribution activities.

•

1.3

of long-term and short-term strategy or plan to manage Scope 1 emissions, eduction targets, and an analysis of performance against those targets

and analysis

2021

trol Group committed to reaching net-zero emissions by 2050 (Scopes 1 and reduce CO, emissions 25% by 2030 versus 2019 (Scopes 1 and 2), as well as 50% of total emissions by 2050 (Scopes 1, 2 and 3). To achieve this, Ecopetrol f its subsidiaries have defined actions to reduce GHG emissions.

tive of ISA's 2030 Strategy is to reduce emissions by 11 million tons 30 with a climate strategy that includes multiparty actions between the ciety-company-academia-NGOs based on the measurement, reduction, ting of GHG emitted by operations.

ne "Jaguar Connection" sustainability program was created that is to contribute towards reducing nine (9) million tons of CO2e by 2030 prest conservation.

ig the energy transition, through new energy businesses such as on network operations, storage, and connections to renewable energies, hers, it seeks to contribute to the reduction of 1.9 million tons of CO, energy matrices of the countries where the company operates. there is an impact reduction program whose global objective is to ,e by 102,500 tons by reducing the water and energy consumption, eration, sulfur hexafluoride gas (SF6) leaks, and promoting sustainable rograms.

f the GHG inventory of ISA and its companies comprises 80% generated SF6 emissions; therefore, ISA companies will continue to meet the nal standard (0.5% of leaks over the total installed inventory) although a been established of an additional 15% reduction beyond the standard by ll energy transport companies.

's strategic objective: reduce CO, emissions by 11 million tons by 2030. P's contribution to the emissions reduction strategic objective: regarding pacts, reduce CO,e by 2,800,000 tons by 2030 through the Jaguar n Program, new energy businesses, and eco-efficiency actions. reduction target for 2021: reduce SF6 leaks by 72.37 kg in 2021, which is reduction target of 1,700.69 tons of CO2e versus the previous year.

m strategy: mapping, guantifying, monitoring, and reducing Scope 1 GHG , especially of SF6 gas used in subsidiary companies. strategy: employ best practices in operation and maintenances, nologies, processes innovations in compliance with the IEC 62271-203 and implement eco-efficient practices.

fulfill the objectives:

co-efficient actions implemented:

entive actions to eliminate possible SF6 leaks in the medium and long term. ced risks of leaks through maintenance for the decontamination of SF6 ia equipment that does not require removing the gas during the process. g the next few years, updating the GIS and AIS equipment using SF6 gas ving the Comprehensive Asset Renewal Plan (PIRA for its Spanish acronym). loped an application to assist in the management of SF6 gas emissions dkeeping that can standardize and evaluate the data recorded in the toring system.

emented a process to contain SF6 leaks.

ired a thermographic camera that accurately detects gas leaks, reducing esponse time for interventions.

Implemented a pilot project to replace internal combustion vehicles in the managerial fleet with electric vehicles.

Implemented pilot projects to install solar panels in substations.

	2021
ISA REP	Grupo ISA's strategic objective: reduce CO ₂ emissions by 11 million tons by 2030. ISA REP's contribution to the emissions reduction strategic objective: regarding its own impacts, reduce CO ₂ e by 2,200,000 tons by 2030 through the Jaguar Connection Program, new energy businesses, and eco-efficiency actions. Short-term strategy: real-time measurement systems for SF6 leaks in facilities that are over 20 years old, prioritizing GIS cells.
	Long-term strategy: projects to change lighting systems to LED systems in 100% of the facilities, change septic tank systems to biodigesters, and connect to municipal networks.
	 Actions to fulfill the objectives: SF6 Leakage Management Program at older facilities. Digitize carbon footprint information through Robotic Process Automation (RPA). Verify the carbon footprint of ISA CTM and ISAP for the years through 2023. Continue implementing good eco-efficiency practices that have been applied to date.
SA Interchile	Grupo ISA's strategic objective: reduce CO_2 emissions by 11 million tons by 2030. ISA Interchile's contribution to the emissions reduction strategic objective: regarding its own impacts, reduce CO_2 e by 1,200,000 tons by 2030 through the Jaguar Connection Program, new energy businesses, and eco-efficiency actions.
	Short-term strategy: quantify emissions: 1) standardize and digitize data of the environmental variables used to quantify emissions. Define empirical records, responsible parties, and record storage; 2) verify reported data; and 3) data quality improvement strategy for the most significant data.
	Long-term strategy: energy efficiency and eco-efficiency actions. Actions to fulfill the objectives:
	1) Establish an activity data monitoring system; 2) approaches to update emission factors; 3) submit the system for reporting and verification (internal or external - HuellaChile); 4) inspection of main emission sources; 5) technology renewal plan; and, 6) operational management plan for fuel and energy consumption.
ISA Transelca	Grupo ISA's strategic objective: reduce CO_2 emissions by 11 million tons by 2030.ISA Transelca's contribution to the emissions reduction strategic objective: regarding its own impacts, reduce CO_2 e by 500,000 tons by 2030 through the Jaguar Connection Program, new energy businesses, and eco-efficiency actions
	Short-term strategy: quantify emissions and improve the emissions monitoring system.
	 Long-term strategy: energy efficiency and eco-efficiency actions Actions to fulfill the objectives: Update and certify the GHG emissions inventory. Optimize energy and water consumption through saving plans, and the installation of a photovoltaic system and a rainwater collection system (pilot) at the NBC substation. Continue implementing best practices developed to date.
ode	IF-EU-110a.4

Code	IF-EU-110a.4
Accounting Metric	(1) Number of customers served in markets subject to renewable portfolio standards (RPS) and (2) percentage fulfillment of RPS target by market
Unit of measure	Number, percentage (%)

2021

This metric does not apply to the companies reporting in this subsector, since their operations are in the transmission segment of the value chain and they do not have generation or distribution activities.

Air Quality

Code	IF-EU-
Accounting Metric	Air em particu or near
Unit of measure	Metric

			2021		
Accounting Metric ¹	(1)	(2)	(3)	[4]	(5)
Unit of measure	ton NOx	ton SOx	ton PM10	ton Pb	ton Hg
ISA ²	Not apply	Not apply	Not apply	Not apply	Not apply
ISA CTEEP	18,23	1,37	0,55	Not available in 2021	Not available in 2021
ISA REP	2,54	0,19	0,08	Not apply ³	Not apply ³
ISA Intercolombia	0,91	0,07	0,03	Not apply ⁴	Not apply ⁴
ISA Interchile	0,25	0,0046	0,00018	0,000000081	0,0000000022
ISA Transelca	0,45	0,03	0,05	Not apply ⁴	Not apply ⁴

Water Management

IF-EU-
(1) Tota with Hi
IF-EU-
Numbe quality
IF-EU-
Descrip to mitio

These metrics are not reported because they have no material significance in the energy transmission business (See "materiality" in ISA's Integrated Management Report).

-120a.1

nissions of the following pollutants: (1) NOx (excluding N2O), (2) SOx, (3) ulate matter (PM1O), (4) lead (Pb), and (5) mercury (Hg); percentage of each in r areas of dense population

tons (ton), percentage (%)

¹ The methodology used is referenced in the ISA GHG NOx SOx and PM10 inventory, calculated as: Calorific value x fuel density x fuel quantity x the EPA emission factor.

EPA emission factor. ² Since ISA does not have its own vehicles, the power plant located at its headquarters is under the operational control of ISA Intercolombia. ³ The fuel quality in Peru results in very low Pb and Hg emissions, and thus they are not calculated. ⁴ No Lead (Pb) or Mercury (Hg) is generated because the fuel marketed in Colombia and reported in the GHG inventory is Diesel B10 wherein no compounds with said elements are reported in its specs documentation; consequently, no Pb and Hg emissions are produced in the combustion process.

-140a.1

I water withdrawn, (2) total water consumed, percentage of each in regions gh or Extremely High Baseline Water Stress

140a.2

er of incidents of non-compliance associated with water quantity and/or permits, standards, and regulations

-140a.3

ption of water management risks and discussion of strategies and practices gate those risks

2021

Coal Ash Management

Code	IF-EU-150a.1
Accounting Metric	Amount of coal combustion residuals (CCR) generated, percentage recycled
Code	IF-EU-150a.2
Accounting Metric	Total number of coal combustion residual (CCR) impoundments, broken down by hazard potential classification and structural integrity assessment

2021

These metrics do not apply to the companies reporting in this subsector, since their operations are in the transmission segment of the value chain and they do not have generation or distribution activities.

SOCIAL CAPITAL

Energy Affordability

Code	IF-EU-240a.1
Accounting Metric	Average retail electric rate for (1) residential, (2) commercial, and (3) industrial customers
Code	IF-EU-240a.2
Accounting Metric	Typical monthly electric bill for residential customers for (1) 500 kWh and (2) 1,000 kWh of electricity delivered per month
Code	IF-EU-240a.3
Accounting Metric	Number of residential customer electric disconnections for non-payment, percentage reconnected within 30 days
Code	IF-EU-240a.4

2021

These metrics do not apply to the companies reporting in this subsector, since their operations are in the transmission segment of the value chain and they do not have generation or distribution activities.



Workforce Health & Safety

Code	IF-EU-
Accounting Metric	Total n rate (N
Unit of measure	Rate

		2021	
Accounting metric ¹	(1) ²	(2)	(3) ³
Unit of measure	Rate	Rate	Rate
ISA	-	-	-
ISA CTEEP	0,78	0,09	1,81
ISA REP	1,26	-	1,23
ISA Intercolombia	3,76	-	0,04
ISA Interchile	2,55	-	Not available in 2021
ISA Transelca	3,43	-	0,57

measurement methodologies of the occupational health and safety-related statistics. ² TRIR is measured in electric power companies by measuring recordable incidents (fatalities, accidents with lost work time, medical treatment cases, and restricted work cases).



End-Use Efficiency & Demand

Code	IF-EU
Accounting Metric	Perce and (2
Unit of measure	Perce

Government.

Code	IF-EU-
Accounting Metric	Percer
Code	IF-EU-
Accounting Metric	Custor

-320a.1

recordable incident rate (TRIR), (2) fatality rate, and (3) near miss frequency NMFR)

In addition to preventive actions undertaken to avoid accident recurrence, ISA and its companies are working on standardizing the scope and

³ The reporting companies of this subsector will endeavor to obtain the information not available for this report, in order to report it in the next period.

J-420a.1

entage of electric utility revenues from rate structures that (1) are decoupled 2) contain a lost revenue adjustment mechanism (LRAM)

entage (%)

2021

This metric does not apply to the companies reporting in this subsector since the rate is set by the National

-420a.2

ntage of electric load served by smart grid technology

J-420a.3

omer electricity savings from efficiency measures, by market

2021

These metrics do not apply to the companies reporting in this subsector, since their operations are in the transmission segment of the value chain and they do not have generation or distribution activities.



LEADERSHIP AND GOVERNANCE

Nuclear Safety & Emergency Management

Code	IF-EU-540a.1
Accounting Metric	Total number of nuclear power units, broken down by U.S. Nuclear Regulatory Commission (NRC) Action Matrix Column
Code	IF-EU-540a.2
Accounting Metric	Description of efforts to manage nuclear safety and emergency preparedness

2021

These metrics do not apply to the companies reporting in this subsector, since their operations are in the transmission segment of the value chain and they do not have generation or distribution activities.

Grid Resiliency

Code	IF-EU-550a.1	
Accounting Metric	Number of incidents of non-compliance with physical and/or cybersecurity standards or regulations	
Unit of measure	Number	
		2021
Accounting Metric		(1)
Unit of measure		Number
ISA		
ISA CTEEP		
ISA REP		-
ISA Intercolombia		-
ISA Interchile		
ISA Transelca		-

These metrics do not apply to the companies reporting in this subsector, since their operations are in the transmission segment of the value chain and they do not have generation or distribution activities.¹

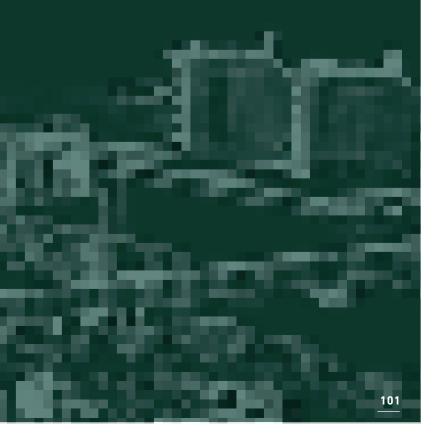
550a.2

em Average Interruption Duration Index (SAIDI), (2) System Average iption Frequency Index (SAIFI), and (3) Customer Average Interruption on Index (CAIDI), inclusive of major event days

s, Number

2021

¹ Trunk transmission systems are not representative for reporting interruptions caused to users. Said situations predominantly occur in distribution systems, a segment wherein ISA does not operate. Since ISA has no users, SAIDI, SAIFI, and CAIDI instances do not apply to this transmission system. Consequently, it is not common to record metrics for System Average Interruption Duration Index (SAIDI) or System Average Interruption Frequency Index (SAIFI for transmission systems as it is done for distribution systems under standards such as IEEE 1366 of 2012- IEEE Guide for Electric Power Distribution Reliability Indices, meant for distribution systems.



INFRASTRUCTURE

ENGINEERING & CONSTRUCTION SERVICES

ACTIVITY METRICS

Code	IF-EN-000.A	
Accounting Metric	Number of active projects	
Unit of measure	Number	
		2021
Accounting Metric		(1)
Unit of measure		Number of active project
ISA Intervial		11
Code	IF-EN-000.B	
Accounting Metric	Number of commissioned projects	
Unit of measure	Number	
		2021
Accounting Metric		(1)
Unit of measure		Number of active project
ISA Intervial		4
Code	IF-EN-000.C	
Accounting Metric	Total revenue contractually expected	
Unit of measure	Reporting currency	
		2021
Accounting Metric		(1)
Unit of measure		COP \$
ISA Intervial		\$918.913,14 millones

Code	IF-EN-000.A	
Accounting Metric	Number of active projects	
Unit of measure	Number	
		2021
Accounting Metric		(1)
Unit of measure		Number of active projects
ISA Intervial		11
Code	IF-EN-000.B	
Accounting Metric	Number of commissioned projects	
Unit of measure	Number	
		2021
Accounting Metric		(1)
Unit of measure		Number of active projects
ISA Intervial		4
Code	IF-EN-000.C	
Accounting Metric	Total revenue contractually expected	
Unit of measure	Reporting currency	
		2021
Accounting Metric		(1)
Unit of measure		COP \$
ISA Intervial		\$918 913 1/ millones

Code	IF-EN-000.A	
Accounting Metric	Number of active projects	
Unit of measure	Number	
		2021
Accounting Metric		(1)
Unit of measure		Number of active projects
ISA Intervial		11
Code	IF-EN-000.B	
Accounting Metric	Number of commissioned projects	
Unit of measure	Number	
		2021
Accounting Metric		(1)
Unit of measure		Number of active projects
ISA Intervial		4
Code	IF-EN-000.C	
Accounting Metric	Total revenue contractually expected	
Unit of measure	Reporting currency	
		2021
Accounting Metric		(1)
Unit of measure		COP \$
ISA Intervial		\$918 913 1/ millones

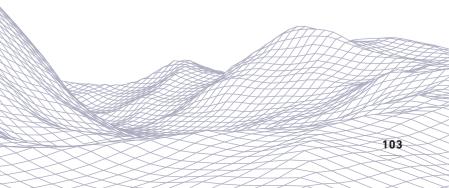
Code	IF-EN-000.A	
Accounting Metric	Number of active projects	
Unit of measure	Number	
		2021
Accounting Metric		(1)
Unit of measure		Number of active projects
ISA Intervial		11
Code	IF-EN-000.B	
Accounting Metric	Number of commissioned projects	
Unit of measure	Number	
		2021
Accounting Metric		(1)
Unit of measure		Number of active projects
ISA Intervial		4
Code	IF-EN-000.C	
Accounting Metric	Total revenue contractually expected	
Unit of measure	Reporting currency	
		2021
Accounting Metric		(1)
Unit of measure		COP \$
ISA Intervial		\$918 913 1/ millones

Code	IF-EN-000.A	
Accounting Metric	Number of active projects	
Unit of measure	Number	
		2021
Accounting Metric		(1)
Unit of measure		Number of active projects
ISA Intervial		11
Code	IF-EN-000.B	
Accounting Metric	Number of commissioned projects	
Unit of measure	Number	
		2021
Accounting Metric		(1)
Unit of measure		Number of active projects
ISA Intervial		4
Code	IF-EN-000.C	
Accounting Metric	Total revenue contractually expected	
Unit of measure	Reporting currency	
		2021
Accounting Metric		(1)
Unit of measure		COP \$
ISA Intervial		\$918 913 1/ millones

Accounting Metric	
Unit of measure	
ISA Intervial	









Environmental Impacts of Project Development

Code	IF-EN-160a.1
Accounting Metric	Number of incidents of non-compliance with environmental permits, standards, and regulations
Unit of measure	Number

	2021
Accounting Metric	(1)
Unit of measure	Number of incidents of non-compliance
ISA Intervial	1 ¹

¹ A non-compliance was identified in the external audit process concerning substandard storage and waste management. Immediate corrective actions, source analysis, and an action plan were implemented. The deviation was corrected and verified by the auditor who provided a favorable opinion thereof.

Code	IF-EN-160a.2
Accounting Metric	Discussion of processes to assess and manage environmental risks associated with project design, siting, and construction
Unit of measure	Discussion and analysis

2021

SA Intervial	ISA Intervial ensures all processes and operations are aligned with the pursuit of
	sustainable development, complying with ISA's commitments and guidelines and
	the applicable regulations in this matter.
	 Among the areas considered when evaluating projects are:
	Possibility to include it within the Environmental Impact Assessment System
	 Sectoral environmental permits, such as riverbed modifications
	 Associated costs and timelines of the environmental assessment
	Preparation of the relevant consults
	• Establish a project baseline, both at the environmental and territorial levels
	Current regulatory analysis
	Through risk management models, wherein environmental risks and climate chang elements are analyzed and evaluated, associated risks are introduced during the tender process and are maintained while the project is under construction.
	All roadways, including corporate buildings, comply with the ISO 14001 standard, obtaining the applicable certifications after the audits have been carried out.
	All legal environmental responsibilities are included in a compliance matrix that follows the ISO 14001 standard.

SOCIAL CAPITAL

Structural Integrity & Safety

Code	IF-EN
Accounting Metric	Amou
Unit of measure	Repor

Accounting Metric	
Unit of measure	
ISA Intervial	

Code	IF-EN
Accounting Metric	Total defec
Unit of measure	Repor

	2021
Accounting Metric	(1)
Unit of measure	COP \$
ISA Intervial	-



Workforce Health & Safety

Code	IF-EN-
Accounting Metric	(1) Tota (2) fata
Unit of measure	Rate

	2020)
Accounting metric	(1)	(2)
Unit of measure	Rate	Rate
ISA Intervial	(a) 0,82	(a) -
	(b) 0,99	(b) -

N-250a.1

unt of defect- and safety-related rework costs

rting currency

2021
(1)
COP \$
-

N-250a.2

al amount of monetary losses as a result of legal proceedings associated with ect- and safety-related incidents

rting currency

N-320a.1

otal recordable incident rate (TRIR) and tality rate for (a) direct employees and (b) contract employees

BUSINESS AND MODEL INNOVATION

Lifecycle Impacts of Buildings & Infrastructure

Code	IF-EN-410a.1	
Accounting Metric	Number of (1) commissioned projects certified to a third-party multi-attribute sustainability standard and (2) active projects seeking such certification	
Unit of measure	Number	
	20	21
Accounting Metric	(1)	(2)
Unit of measure	Number of proyects	Number of proyects
ISA Intervial	-	-
Code	IF-EN-410a.2	
Accounting Metric	Discussion of process to incorporate operational-phase ener considerations into project planning and design	rgy and water efficiency
Unit of measure	Discussion y analysis	
	2021	
Accounting Metric	(1)	
ISA Intervial	In the project design phase, the new business area is devoted to the information provided by the Ministry of Public Works of Chil and includes the engineering the company must apply and over has no decisive power. Additionally, any project awarded must b Environmental Impact Evaluation System (SEIA for its Spanish if an Environmental Qualification Resolution (RCA) is required, responsibilities for monitoring neighboring water and fauna. Re efficiency, the bids include recommendations on the use of clear In the operational phase, campaigns to encourage the consciou resources are implemented. Concerning energy efficiency, curr projects that aim to generate clean energy using the kinetic en- Energy Generation and through the reuse of old solar panels	e, which determines which the company be reviewed by the acronym) to determine which may indicate egarding energy an energy. Us use of water rently, there are pilot ergy of vehicles (Vehicle

Energy Generation) and through the reuse of old solar panels as sound insulators by generating solar energy with the correct connectivity and equipment; both projects seeking to provide power to the same route and thus reduce consumption from the network.

Climate Impacts of Business Mix

Code	IF-EN-410b.1
Accounting Metric	Amount of backlog for (1) hydrocarbonrelated projects and (2) renewable
Unit of measure	energy projects
Code	IF-EN-410b.2
Accounting Metric	Amount of backlog cancellations associated with hydrocarbon-related
Unit of measure	projects
Code	IF-EN-410b.3
Accounting Metric	Amount of backlog for non-energy projects associated with climate change mitigation
Unit of measure	projects
	2021
These metrics do not apply to reporting companies in this subsector.	



Business Ethics

Accounting Metric

Unit of measure

Code

Unit of measure	Numa
Accounting Metric	
Unit of measure	
ISA Intervial	
Code	IF-EN
Accounting Metric	Total a charg
Unit of measure	Repor
Accounting Metric	
Unit of measure	
ISA Intervial	
Code	IF-EN
	Descr
Accounting Metric	and (2

ISA Intervial

the risk amo stal ISA whi	Corj cs co ong keho s An ch s kers
•	Co hos tra su
dev inte lists con	itinu elop rnat s and trac pora
don pro	ining atior hibit ployr
con	ining nplet ethe

IF-EN-510a.1

(1) Number of active projects and (2) backlog in countries that have the 20 lowest rankings in Transparency International's Corruption Perception Index

Number, reporting currency

2021	
(1)	(2)
Number of projects	COP \$
-	-

N-510a.2

l amount of monetary losses as a result of legal proceedings associated with ges of (1) bribery or corruption and (2) anticompetitive practices

orting currency

2021	
(1)	(2)
COP \$	COP \$
-	-

N-510a.3

ription of policies and practices for prevention of (1) bribery and corruption, (2) anti-competitive behavior in the project bidding processes

ussion and analysis

2021

The Company has established ethics as its central axis and has therefore established porate Integrity & Ethics Model - Law 20,393 – Compliance to manage oncerning any bribery, corruption, and anti-competitive behavior instances, others, encouraging the ethical behavior of its administrators, workers, and olders as a principal administrative measure.

nti-Corruption and Anti-Bribery Management Guidelines, and the appendices specifically apply to ISA Intervial, include the ethics criteria administrators and rs must follow for handling:

onflicts of interest, sponsorships, invitation and participation in events, gifts and ospitality, social contributions and donations, improper payments to expedite ansactions, government relations, and anti-corruption due diligence regarding uppliers and new businesses.

uous diagnostic monitoring to ensure compliance due diligence has been bed and implemented, which allows identifying and managing local and tional compliance risks by monitoring third parties in more than 1,500 sanction d negative news and linking it with information from SAP, purchase orders, cts and sanction lists issued by the Government of Chile. The above allows the ate Integrity & Ethics Committee to make informed decisions.

g was provided to ISA Interval's Sustainability teams in social contributions and ons, gifts and hospitalities, to increase employee awareness of the obligations, tions and sanctions concerning Law 20,393 and the clauses included in their ment contracts.

ig is provided in order for ISA Intervial's administrators and collaborators to ete annually a declaration of conflicts of interest. The Compliance Officer, er with their immediate superior, analyzes the applicable measures when a conflict of interest exists.

SERVICES

PROFESSIONAL & COMMERCIAL SERVICES



Code	SV-PS
Accounting Metric	Numb
Unit of measure	Numb
Accounting Metric	
Unit of measure	

Code	SV-PS-000.B
Accounting Metric	(1) Employee hours worked, (2) percentage billable(2) Hours, percentage (%)
Unit of measure	

Accounting Metric
Unit of measure
ХМ

¹ XM does not bill on an hourly basis.



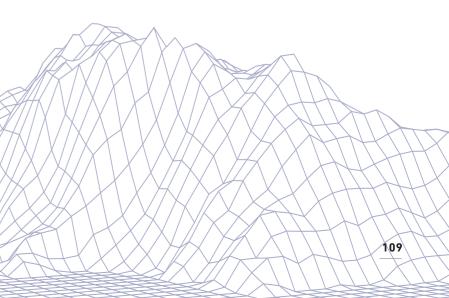


SV-PS-000.A

ber of employees by: (1) full-time and part-time, (2) temporary, and (3) contract nber

	2021				
	(1) (2)	(1) (2)	(1) (2)	(1)	(3)
	Number of employees	Number of employees	Number of employees		
	267	28	295		

2021		
(1)	(2)	
Hours	%	
761,69	No aplica ¹	



SOCIAL CAPITAL

Data Security

Code	SV-PS-230a.1	Accounting Metric	Descrip custome
Accounting Metric	Description of approach to identifying and addressing data security risks	Unit of measure	Discuss
Unit of measure	Discussion and Analysis		

	2021	ХМ
ХМ	XM has an data security management system (ISMS for its Spanish acronym) based on the international standard ISO 27001:2013 and certified by the Colombian Institute of Technical Standards and Certification (ICONTEC) since 2015. The ISMS covers business processes to provide power system operations and administration services for interconnected electrical systems.	
	Cyber risk management at XM is directed by the adoption of the NERC CIP standards for industrial cybersecurity and the implementation of the defense framework based on NIST (National Institute of Standards and Technology) that determine mechanisms to handle a cyber-attack before it happens, during and after it happens.	
	A self-assessment is carried out based on the above benchmarks, making it easier to establish the objectives of XM's Comprehensive Cybersecurity Program aimed at developing organizational capacities in cyber risk management based on continuous monitoring, detection, response and recovery from security events, instilling a corporate security culture and continuity management for business operations.	
	The handling of risks associated with data security is done through ongoing actions within the PTP triad: People-Technologies-Processes to ensure we have resilient processes and people with safe behaviors administering the data managed by XM. Likewise, tactical plans are developed for both passive and active cybersecurity lines of defense, with the Digital Security Operations Center (SOC) as the central pillar to actively monitor and manage technical vulnerabilities, as well as to respond to incidents and provide cyber risk management.	
	In the people area, the expansion of a data security culture is emphasized through awareness and training programs, technical tests and a yearly culture assessments to identify gaps and establish risk management plans.	

38-63
(1) Nur busine (3) nur
(2) Nur

Accounting Metric

Unit of measure

SV-PS-230a.2

ption of policies and practices relating to collection, usage, and retention of ner information

sion and Analysis

2021

To address this issue, it is important to highlight that XM is not an end-user company, and therefore its personal databases mainly include only data from employees, suppliers and energy market agents.

As an indication of Senior Management's commitment to fostering an organizational culture of respect for the protection of personal data, the applicable guidelines are adopted for all personal information registered in the databases of those responsible for processing personal data. Therefore, the guidelines described in the Institutional Handbook #139 - ADOPTION OF THE PERSONAL DATA PROCESSING POLICY HANDBOOK are mandatory, and strict compliance is required of those responsible for the processing of personal data, which includes administrators and employees.

Additionally, XM has a personal data protection program that focuses on topics such as:

- Action framework and guidelines
- Defined roles and responsibilities
- Ratification of a business culture of personal data protection, with the
- commitment of senior management and all XM staff
- Training and awareness
- Service channels for addressing requests, questions and complaints or for any matter related to personal data; the corporate website has a call button for personal data requests, questions and complaints (PQR for its Spanish acronym)
- C0 (Compliance) risk management that includes the Personal Data
- Protection issues
- Contractual clauses concerning Personal Data Protection, for example with employees and suppliers
- Authorization for the processing of personal data with agents, applicants and suppliers

The guidelines are published on the XM website under Policies and handbooks (xm. com.co) and included in the corporate handbooks.

/-PS-230a.3

mber of data breaches, (2) percentage involving customers' confidential ess information (CBI) or personally identifiable information (PII), mber of customers affected

mber, Percentage (%)

	2021	
(1)	(2)	(3)
Number of data breaches	%	Number of customers affected

HUMAN CAPITAL

Workforce Diversity & Engagement

Code	SV-PS-330a.1
Accounting Metric	Percentage of gender and racial/ethnic group representation for (1) executive management and (2) all other employees
Unit of measure	Percentage (%)

		2021	
Accounting Metric		(1)	(2)
Unit of measure		%	%
XM	Women	57,14	33,33
	Men	42,86	66,67

		2021	
Accounting Metric		(1)	(2)
Unit of measure		%	%
ХМ	Asian	-	-
	Black	-	-
	Hispanic/ Latino	100	100
	White	-	-
	N/A	-	-
	Others	-	-

Code	SV-PS-330a.2		
Accounting Metric	(1) Voluntary and (2) involuntary turnover rate for employees		
Unit of measure	Percentage (%)		
		2021	
Accounting Metric	(1)		(2)

Accounting Metric	(1)	(2)
Unit of measure	%	%
XM	7,46	2,37

Code	SV-PS-330a.3	
Accounting Metric	Employee engagement as a percentage	
Unit of measure	Percentage (%)	
		2021

	2021
Accounting metric	(1)
Unit of measure	%
XM	89



Professional Integrity

ΧМ

Code	SV-PS-5
Accounting Metric	Descript
Unit of measure	Discussi

Confli
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situat
Ethics

Corruption:

Automated tools are implemented to strengthen monitoring and report compliance with some aspects established in the Business Ethics and Compliance Program. On the other hand, XM has an external ethics hotline for its stakeholders, as a means to consult, inform or report particular situations and possible breaches of the code of ethics or the integrity of the company. There is an Ethical Issues Management Guide, seeking to establish protection mechanisms for whistleblowers and regulate other aspects of reports to the ethics line.

XM has a data governance and quality program, which establishes requirements, standards and practices that apply to information management, in order to have accurate, reliable and managed information in a safe and efficient manner, in accordance with regulations.

XM has an information security management system-ISMS based on the international standard ISO 27001:2013 and certified by ICONTEC since 2015. The ISMS provides guidelines for the classification of business information and technological controls. Annual internal and external audits are carried out on this system.

Code	SV-PS-5
Accounting Metric	Total am professi
Unit of measure	Reportir

	2021
Accounting metric	(1)
Unit of measure	COP \$
XM	-

-510a.1

ption of approach to ensuring professional integrity

sion and analysis

2021

ict of interest:

conflict that workers or close relatives have with suppliers, competitors or I parties must be reported. The boss leads the analysis, with the support of compliance and legal officer, and measures are guaranteed to handle the tion and the results of the analysis of conflict cases are presented to the Ethics Committee.

Data Accuracy:

Protection of confidential information:

-510a.2

mount of monetary losses as a result of legal proceedings associated with sional integrity

ing currency

