



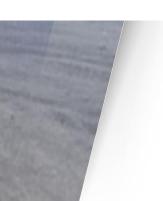
ECOPETROL GROUP INVESTOR PRESENTATION

Confidential | January 2023





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Ecopetrol Senior Management





Chief Executive Officer

- CEO of Ecopetrol since 2017
- Prior to this, served as COO of Ecopetrol, overseeing the upstream, midstream, downstream, technology, projects and marketing operations, as well the research and innovation areas
- With over 31 years of experience in the O&G industry, he has led Ecopetrol's transformation process, TESG strategy and has positioned Ecopetrol in strategic basins in the USA, Brazil and Mexico
- For 20+ years, he worked at BP plc, most recently as Senior VP of BP America and Head of Global Deepwater Response. From 2005 to 2010, he was Regional President of BP Southern Cone (South America)
- Holds a degree in mechanical engineering from Universidad de los Andres



YEIMY BÁEZ VP. Low Emission Solutions

- VP of Low Emission Solutions since March 2020
- Over 20 years of experience in the oil and gas industry, where she successfully fulfilled a broad range of technical, commercial, strategic and financial roles; including Corporate Manager of Financial Planning and Business Performance in Ecopetrol S.A.
- Holds a degree in Petroleum
 Engineering from Universidad Industrial de Santander, an MBA degree from Universidad Externado de Colombia and is certified in Project Management (PMP)
- Prior to her current assignment, she served for recognized players in the industry such as Equión, BP and Weatherford



ALBERTO CONSUEGRA Chief Operating Officer

- COO of Ecopetrol since March 2019
- Previously interim CEO of Cenit S.A.S., Ecopetrol's midstream subsidiary since 2018 and VP of Supply and Services of Ecopetrol S.A. since 2016
- Holds a degree in civil engineering from Universidad de Cartagena and a master's degree in pavements and construction management from Texas A&M University
- Previously was VP of Exploration and Production at Equión Energia Limited, where he also served as the VP for Projects and Production
- He joined Ecopetrol in 1993, working in the Projects Group, later went to BP Exploration, where he worked for 16 years



JAIME CABALLERO URIBE Chief Financial Officer

- CFO of Ecopetrol since August 2018
- Over 20 years of international experience in the oil and gas sector
- Joined Ecopetrol Group in 2016 and was CFO for the Downstream Segment prior to appointment as Ecopetrol Group's CFO
- Previous experience includes 17 years at BP, where he held leadership positions in North and South America, Africa and Europe, and most recently as Regional CFO for Brazil, Uruguay, Colombia and Venezuela
- Holds a law degree from Universidad de los Andes (Bogotá), an MBA in energy business from Fundação Getulio Vargas and has completed executive programs in advanced financial management from Duke University and the Wharton School of Business

Summary Terms of the Offering

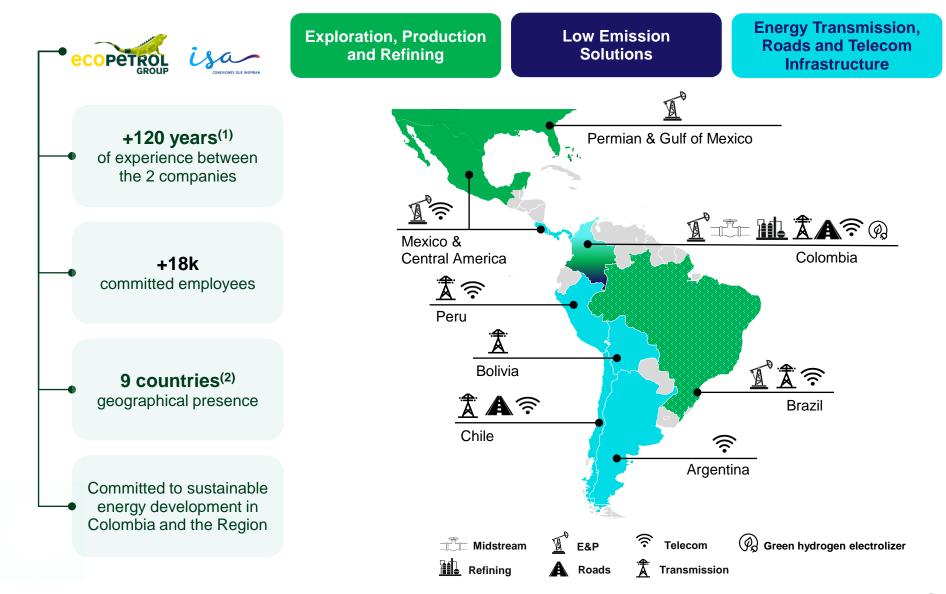


Issuer	Ecopetrol S.A.
Format	SEC Registered
Ranking	Senior Unsecured and Unsubordinated Notes
Expected Ratings	Moody's: Baa3 (Negative) S&P: BB+ (Stable) Fitch: BB+ (Stable)
Currency	USD
Size	Benchmark
Tenor(s)	[10 yr.]
Coupon Payment	Semi-Annual
Amortization	Bullet
Use of Proceeds	Repay the remaining US\$472,000,000 outstanding principal amount under the loan agreement to finance the ISA Acquisition Loan, and general corporate purposes, including financing our investment plan for 2023
Minimum Denoms	1,000
Governing Law	New York Law
Listing	New York Stock Exchange
Joint Bookrunners	citi J.P.Morgan Santander Scotiabank

3

Ecopetrol is a leader and diversified energy group in Latam





Source: 2021 20-F form, Super 6-K (3Q2022), Company filings, FactSet.

(2) Subsidiary Ecopetrol Trading Asia (ECPTA) based in Singapore

⁽¹⁾ As of 3Q'22, Ecopetrol management has approximately 70 years of experience and ISA management has approximately 54 years of experience.

Ecopetrol Group: leading integrated energy and infrastructure company in the region



3 BUSINESS SEGMENTS

Hydrocarbons

arbons Low Emission Solutions

Transmission, Toll Roads and Telecom



#1 in Colombia



139% RRR⁽¹⁾

last three-years average



#1

self-generator with renewables in Colombia



#1

energy transmission company in LatAm



720.4 mboedproduction in 30'22



2,002 mmboe

1P reserves as of 2021



112.5 MW⁽²⁾

renewables supply capacity



~448,000 GWh

annually transmitted energy



1,007 mboed of transported volume in 2021



+9,000 km

of pipelines in 2021



+15K ha

5 Ecoreserves network in Colombia



48,747 km

of transmission network in 3Q'22



364.5 mboed of refinery throughput in 3Q'22



80%

refining capacity utilization rate in 3Q'22



1 Pilot

in green hydrogen in Colombia



860 km

Toll roads in operation

Source: 2021 20-F form, Super 6-K (3Q2022), Prospectus Supplement, Company filings.

(1) Reserve replacement ratio average 2019-2021, as per 20-F.

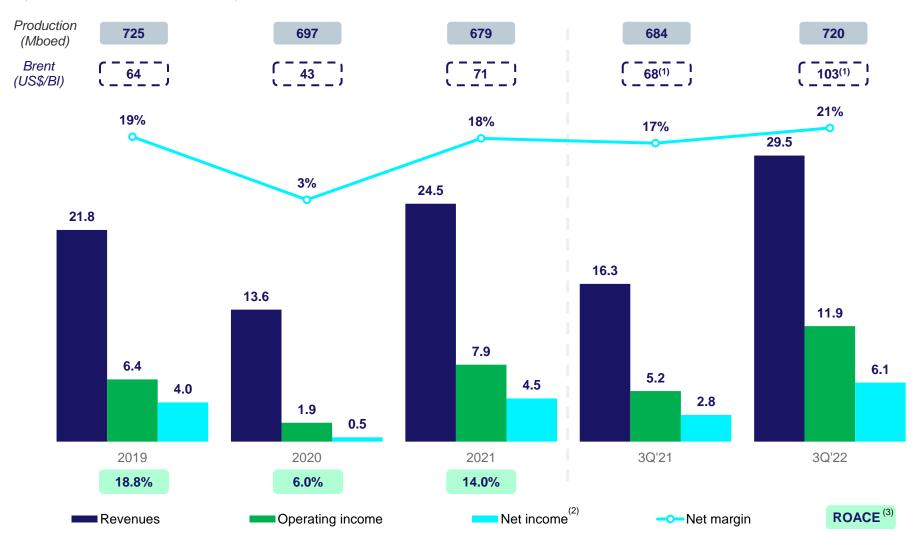
(2) Incorporates entry of operations of the San Fernando Solar Ecopark. As of 3Q2022 the renewables supply capacity increased to 119MW.

Record profitability in 3Q'22, exceeding 2021 full year results



Evolution of financial performance

(US\$ in BN, unless otherwise stated)



Source: 2021 20-F form, Super 6-K (3Q2022), Company filings.

Vote: Graphs do not represent the same scale. Financial figures are expressed in US\$ BN and converted using the following COP/US\$ AOP FX rates COP\$3,282.39 to US\$1.00 (2019), COP\$3,691.27 to US\$1.00 (2020), COP\$3,747.24 to US\$1.00 (2021), COP\$3,697.10 to US\$1.00 (3Q'2021), COP\$4,069.33 to US\$1.00 (3Q'2022).

- (1) Average price for the first nine months of the year
- (2) Net income attributable to owners of parent
- (3) ROACE calculated as: Operating Income / (Total Assets Total Current Liabilities at year-end)

Energy that Transforms – 3Q'22 Strategic Milestones



Competitive Returns

Record profitability in 3Q'22, exceeding 2021 full year results

49.5% EBITDA Margin as of 3Q22(1)(2)

1.8x Gross Debt / EBTIDA in 3Q'22 (1)

Cutting-edge knowledge

70% of personnel in reskilling by 2030 (in order to face new challenges)

US\$ 240 MM to be allocated to innovation. technology, and digital transformation projects from 2022 to 2024

(2) EBITDA Margin calculated as EBITDA / Revenues.



Growing Production 720.4 mboed in 3Q22

Operation expansion in the Permian Basin (Texas, USA)

Record refining results and Cartagena refinery expansion

US\$ 1.8 BN allocated towards evaluation and development natural gas discoveries in Colombia by 2024

Generate value through TESG

6 alliances for hydrogen development











Successful completion of pilot test for green hydrogen production in the Cartagena Refinery

Achieve net-zero carbon emissions (scopes 1 and 2) and a 50% reduction in total emissions (scopes 1, 2 and 3), both by 2050

Source: 2021 20-F form, Super 6-K (3Q2022), Company filings. Note: TESG refers to technology, environmental, social and governance (1) EBITDA reconciliation shown in appendix.

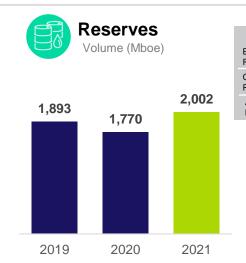
Operational excellence coupled with investment plans



Production and reserves results



	2019	2020	2021		
Total Average Daily Crude Oil Production, prior to deducting royalties					
Ecopetrol in Colombia (kbpd)	548.00	516.03	485.91		
Subsidiaries in Colombia (kbpd)	28.70	21.33	18.09		
Internationally (kbpd)	15.00	17.37	23.08		
Total gross production Ecopetrol Gorup					
Oil and gas production (mboed)	725.1	697.0	679.0		



2021 vs 2020

Ecopetrol's Reserves +13%

Country's Reserves(3) +12%

Average Brent Price +65%

RRR 139% Last 3 years average

AVERAGE
RESERVES LIFE

8.7 YEARS

2021 Last 3 years average

2023 Investment Plan

Exploration and Production

Investment

USD 794 MM - USD 905 MM

Support our commitment to achieve gas self-sufficiency

Electric Power Transmission

Investment USD 1.2 BN

Support >6,000 km of new transmission lines for non-conventional renewable energies



Operational

Production 720 – 725 (mboed)

Transported volume >1,000 (mboed)

Throughput 420 – 430 (mboed)

Source: 2021 20-F form, Company filings, FactSet.

Note: Business plan reflects estimated Brent prices of US\$ 63/Bl in 2022, and US\$ 60/Bl in 2023 and 2024. As of 3Q'22, Brent price averaged US\$103/Bl.

Note: Amounts stated in USD have been translated for the convenience of the reader at the rate of COP\$4,532.07 to US\$1.00, which is the Representative Market Rate on September 30, 2022.

- EBITDA reconciliation shown in appendix.
- (2) Exit rate as of June 30th, 2021.
- (3) Source: ANH (Agencia Nacional de Hidrocarburos) Available information as of December 31st, 2021.

8

•• New avenues for growth in the energy value chain



Ecopetrol's strategic investment in ISA







Operations in 6 countries in South and Central America



50 subsidiaries11 joint ventures1 associate



Acquisition Loan Refinancing⁽²⁾

As of September 30th, 2022, Ecopetrol had refinanced **87% (US\$3.20 BN)** of the Acquisition Loan used to acquire ISA, via:

US\$2.0 BN

USD Bond issuance October 2021



USD Loan September 2022

Source: 2021 20-F form, Company filings.

(1) US\$ converted using an FX rate of 3,876.08 COP/US\$ as of 8/20/2021

(2) Figures based on Capitalization information from the Preliminary Prospectus Supplement

Capital Expenditure Plans



Natural gas strategy



#1 producer in

Colombia (55% share) as of 2021



553 gcf proven reserves as of 2021

CAPEX IN NATURAL GAS (2023)

COP 3.6 – 4.1 trillion

- · Goal: achieve gas self-sufficiency in Colombia
- Evaluation and development of the largest offshore gas discoveries in the Colombian Caribbean
- Exploration and development in Colombia:
 - Piedemonte
 - Middle Magdalena Valley
 - Guajira
 - Sinú-San Jacinto basin areas

CAPEX IN HYDROGEN AND C02 INITIATIVES (next 3 years)

USD 200 Million



Green hydrogen projects in C/gena and B/meja Refineries



CO2 capture projects through emerging tech and Natural Climate Solutions

CAPEX IN LOW EMISSION BUSINESSES (by 2030)

USD 8.3 Billion

Current businesses and geographies

USD 2.2 Billion

New geographies

CAPEX IN TESG (by 2040)

USD 1.4 Billion

- Water management
- Fuel quality improvement
- Decarbonization
- Green and blue hydrogen o Energy efficiency pilots

Source: Super 6-K (3Q2022), Company filings.

Solid commitment and progress on the TESG front



Technology, Environmental, Social and Governance

DECARBONIZATION

On March 25, 2021, Ecopetrol announced its plan to achieve **net-zero Greenhouse Gas (GHG) emissions by 2050** in line with their commitment to mitigate climate change and further the energy transition and the TESG agenda⁽¹⁾



- In 2021, Ecopetrol verified its GHG emissions inventory for 2017-2020 through a third-party, Ruby Canyon Engineering
- Ecopetrol reduced 293,594 CO2e from new projects implemented in 2021, exceeding the established annual target by 25%



 By 2030, Ecopetrol seeks to reduce its CO2e emissions by 25% compared to the 2019 baseline for scopes 1 and 2



Ecopetrol GHG reduction initiatives (tCO2e)

- Fugituve emissions
- Energy efficiency
- Renewables
- Flares

Circular economy

More than 400 initiatives identified, 140 under execution and 74 implemented



Energy



Water



Industrial Materials
Utilization



Containers and Packaging Plastic seals



Biomas

WATER NEUTRALITY BY 2045

Ecopetrol S.A. aims to improve water use efficiency to reduce waterrelated impacts, promote water security within the operation's areas of influence and ensure production sustainability

- 111.3 MCUM of water were reused
- 74% of the total water required to operate is reused within the operation

2021

 The Llanito and Casabe Clean Technology Reconversion Programs were concluded which resulted in the suspension of 5 MCUM per year of wastewater disposal in surface waters of the Magdalena River



Zero treated produced and wastewater discharges

2045

Expected reduction of **58% to 66%** in the intake of fresh water for operations

Low-emission hydrogen

Completion phase 1 H₂ plant projects in Refineries in alliance with













Successfully completed pilot test for green hydrogen production in the Cartagena Refinery in 3Q2022

✓ The electrolyzer is now part of Esenttia's assets, and Esenttia is currently finalizing the technical details for its transfer and subsequent start of activity in industrial conditions

Source: 2021 20-F form, Super 6-K (3Q2022), Company filings.

(1) Pertaining to Scope 1 and 2 (*) MCUM: million cubic meters

Strong Corporate Governance underlying the energy transition



Ecopetrol relies on transparency, governance and control practices that ensure good Corporate Governance in order to generate trust among stakeholders and quarantee sustainability of the business



SHAREHOLDERS



Investor Relations benchmark



Transparency and disclosure of reports

General Shareholders Meeting: high coverage and access

>5% stake shareholders can bring proposals to BoD

Increasing alignment with new government in Energy Transition Goals and climate change risks and opportunities

New Government

Focus on accelerated energy transition + national energy security

- Fuel import substitution
- Stability of national trade balance
- Renewable energy







Ecopetrol's 2023 Investment Plan USD 5.6 - 6.6 BN

√ 23% of investments destined to new lowemission businesses:







- ✓ USD 794 905 MM towards natural gas offshore and onshore exploration
- ✓ Hydrocarbon production up to 725 mboed
- ✓ USD 1.2 BN for non-conventional renewable energies' transmission lines



TOP MANAGEMENT

- CEO appointed by the Board of Directors
- Succession policy
- Top Management Committees
- **Engagement** model
- Clear **decision-making** and attributions scheme



STAKEHOLDERS



#2 company in Corporate Governance in Colombia 2021

Integrated Sustainable Management Report

Annual Corporate Governance 2021 Report

BoD and management' vast experience and awareness of ESG issues. considered above average for Colombian and regional O&G industry peers (1)

2040 vision

~ USD 331 MM social investment

230K non-oil iobs by 2040

2 MM Colombians with improved education



BOARD OF DIRECTORS

- 6 Committees
- Succession policy and competence matrix
- Independent board members: 7 out of 9
- 8th & 9th BoD lines defined by O&G Producer Departments and Minority Shareholders
- BoD's composition to consider criteria of gender, diversity and inclusion
- Strategy and business plan approval: BoD considers corporate responsibility, environmental, social, governance, technology and innovation criteria

3 Investment in technology and human talent for a new reality



Science, technology and innovation Integrated agenda

USD 89 MM

To be allocated towards projects in 2023.

Essential to leverage business development and catalyze progress in technologies for the energy transition

Prioritizing

- Decarbonization, CCUS and H2
- Asset optimization
- 3 Circular economy

Strategies that leverage resilience and diversification

Recovery and reserves	Zero diluent	Zero thefts	Processes - total autonomy
Carbon Negativity	Sustainable R Petrochemistry	enewable Enerç Fuels Efficier	
	co ₂	٠٠	
competitiveness	Decarbonization	Diversification	TESG

Reinventing our human talent

+ 5,000

hours of training to GE leaders on TESG topics



Capacity and knowledge enhancement

Talent prepared for the 2040 challenges

Flexible and dynamic organizational structure

70%

Employees with Reskilling* by 2030

- * Capacity and knowledge enhancement
- Fill new positions (reskilling) through a comprehensive science, technology, and innovation strategy

Surpassing historical financial results

Evolution of financial performance

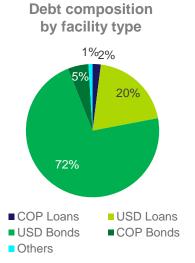
Ecopetrol Group KPIs



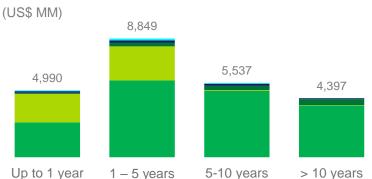
Consolidated debt profile as of September 30, 2022 (3)

Consolidated indebtedness by entity (4)

Company	Debt in US\$ M	Debt in COP M	Total (USD\$ M)	%
Ecopetrol	15,750	1,733,636	16,133	67.9%
Ocensa	506		506	2.1%
Bicentenario		443,541	98	0.4%
ODL		167,325	37	0.2%
Invercolsa		353,592	78	0.3%
ISA	5,697	5,547,616	6,921	29.1%
Ecopetrol Group	21,953	8,245,710	23,773	100%



Maturity profile of loans and borrowings by type (4)





Source: Super 6-K (3Q2022), Company filings

Graphs do not represent the same scale. Financial figures are expressed in US\$ BN and converted using the following COP/US\$ AoP FX rates COP\$3,697.10 to US\$1.00 (3Q'2021), COP\$4,069.33 to US\$1.00 (3Q'2022).

- EBITDA reconciliation shown in appendix
- (2)EBITDA Margin calculated as EBITDA / Revenues.
- Figures based on Capitalization information from the Preliminary Prospectus Supplement. (4) Amounts stated in USD have been translated for the convenience of the reader at the rate of COP\$4,532.07 to US\$1.00, which is the Representative Market Rate on September 30, 2022.

Navigating a highly volatile environment



Key work fronts



Challenges

- Rising interest rates and inflationary pressures within O&G sector
- Uncertainty around the impact of the war between Russia and Ukraine
- **Increased competition** with Russian crudes traded at a discount
- COVID-19 contagion spikes



Actions Taken

- ✓ Increased production in domestic and international operations
- ✓ Proactive sourcing
 - Long-term contracting of drilling and workover fleet
- √ Strategic cash flow management
 - Optimization of crude and product inventory levels
- √ Competitiveness and efficiency

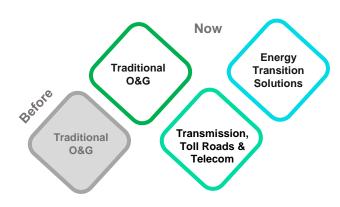
4 Disciplined financial management



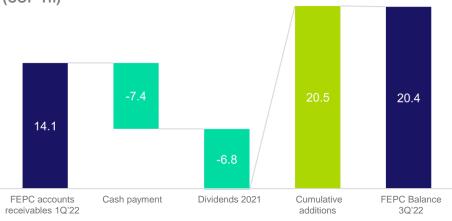
Capital Discipline

Portfolio transformation and changes in market conditions require us to adapt our capital discipline

More flexible, agile and dynamic guidelines, leveraging growth in a profitable and sustainable manner



Fuel Price Stabilization Fund (FEPC) balance (COP Tn)



In December 2022, the Government made an extraordinary payment of COP\$4.0 trillion in connection with the FEPC balance.

Dividend distribution

Distribution per Shareholder (COP MM)			
Shareholder	Value		
Controlling Shareholders	7,926,666		
Minority Shareholders	2,110,779		
Non-controlling Shareholders	1,149,506		
Total	11,186,951		

During the nine-month period ended September 30, 2022, a total amount of COP 11,186,951 MM in cash dividends have been paid to shareholders, and a total amount of COP\$6,788,385 MM due to the Government as dividends have been offset against the FEPC accounts receivable due to Ecopetrol by the Colombian Government.

Source: Super 6-K (3Q2022), Company fillings.



EBITDA Reconciliation



(COP BN)	2021	3Q'21	3Q'22	3 Q ∆%
Net income attributable to the owners of Ecopetrol	15,649	10,217	24,771	142%
(+) Depreciation, amortization and depletion	10,160	7,384	8,757	19%
(+/-) Impairment of long-term assets	33	-2	6	-440%
(+/-) Financial result, net	3,698	2,180	5,366	146%
(+) Income tax	8,795	6,046	16,214	168%
(+) Taxes and others ⁽¹⁾	1,768	1,191	1,463	23%
(+/-) Non controlling interest	1,981	1,058	2,760	161%
Consolidated EBITDA	42,084	28,074	59,337	111%
(÷) Revenue	91,881	60,086	119,899	100%
EBITDA Margin (%)	45.8%	46.7%	49.5%	6%





Thank you.



