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Record results, beyond the financials



RESULTS THAT EXCEED THE SET TARGETS

ENERGY SECURITY			TESG			FINANCIALS				
	Production mboed	RRR*	Transported volumes	Refineries throughput mbd	Renewables incorporation MW	Social and Environment Investment	ST+I investment	САРЕХ	Gross Debt/ EBITDA	Operating cash flow
TARGET 2022	700 - 705	100%	>1,000	340 - 360	400 - 450 to 2024	COP T 1.5 2022 - 2024	58 MUSD	4,800 - 5,800 MUSD	<2.5x	COP T 26.6
ACTUAL 2022	709	104%	1,071	358	208 to 2022	COP 615	62 MUSD	5,488 MUSD	1.5x	COP T 36.2

Ecopetrol is today a diversified energy group

Leader in LATAM



3 SOLID BUSINESS LINES

HYDROCARBONS





Pre-pandemic production levels 734.9 mboed exit rate 4022



Record evacuation in multi-purpose pipelines in 4Q22: 305.6 mbd



Last 3-years record in **consolidated throughput** 357.5 mbd 4Q22

LOW-EMISSION SOLUTIONS



Self-generator with renewables



Offshore discoveries Gorgon-2 and Uchuva-1



208 MW incorporation of renewable energies



First **green H2** molecule in Colombia

TRANSMISSION AND TOLL ROADS



Energy transmitter in Latin America



Construction of projects >4,600 km additional network circuit



32.2% net income growth vs 2021



Carbon neutrality certification for 11 of ISA's companies

Ecopetrol's growing contribution to national development



COP 25.4 trillion average per year transfers to the Nation for the

transfers to the Nation for the last 5 years

112% increase

5-year average vs 2007

Transfers to the Nation in 2022 were the **highest in history**

SOCIAL AND ENVIRONMENT INVESTMENT

COP 615 billion in 2022

- 2,179 farmer families
- 128,258 students
- 204 km of roads intervened
- ~764,000 people with access to drinking water and sanitation

SHAREHOLDERS

COP T 2.1

Dividends

~ 255 thousand minority shareholders

~ 18 million Indirect shareholders

through Pension Funds

BALANCE OF PAYMENTS

Ecopetrol Group accounted for ~30% of national exports in 2022

71% of the internal demand for fuels - locally produced

HUMAN TALENT

>560 people with disabilities

7% identification with ethnic minorities

5% victims of the armed conflict

PROCUREMENT

~130 thousand jobs

generated through contractors by 2022

8% increase in local goods and services procurement vs 2021

Decisive action in the fight against climate change

freshwater bodies

IN 2045 ECOPETROL WILL BE WATER NEUTRAL

captured



volume

2019

2017

2020

2021

2022



Profitable growth in low emissions

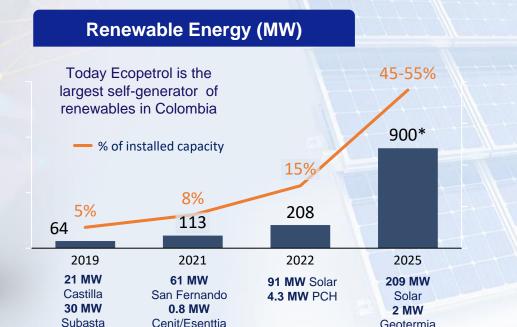




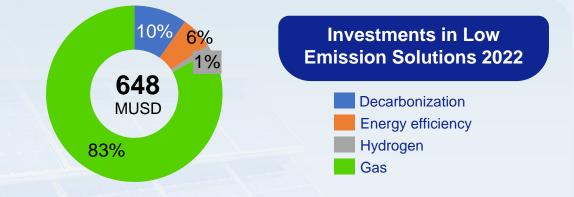
2022 production

Cenit/Esenttia

Investments in Gas and Unprecedent Activity				
	2021	2022		
Gas Investments (MUSD)	250	539		
#Gas wells (exploratory+development)	5	16		
Exploratory successes	2	2		
Marketing process (GBTUD)	58	134		



Geotermia



102% Investment execution compliance 93% of the incorporation of resources from successful exploratory wells

208 MW Renewable Energy **Incorporation MW**

@ Dic 22

MUSD Mature solar farms

Progress in **Hydrogen Projects**

7.5 MUSD

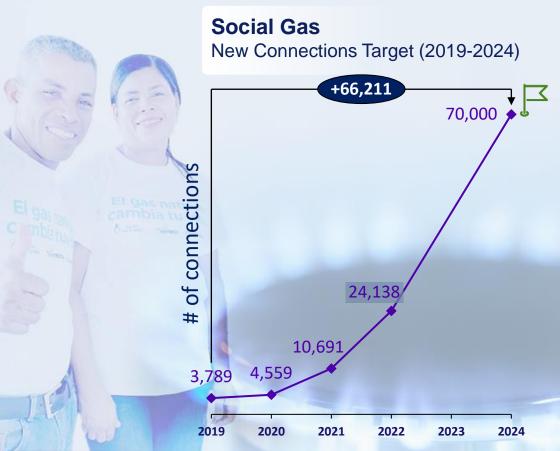
Routes for hydrogen production 3 MUSD

Blue Hydrogen in GRB **2.5 MUSD**

While we advance in long-term solutions for the transition







Sustainable Mobility: Decarbonization Commitment Progress

Kandeo Project

With a contribution of COP\$800 billion, 220,000 TON CO² will be reduced by renewing 4,000 fuel heavy load vehicles to natural gas

Ecological Route Plan

First 10 tank trucks already work with CNG

Mobility at Ecopetrol

Incorporation of **249** electric, gas and hybrid vehicles (**25%** of the vehicle fleet)



IN 2022, AT 2,011 MBOE, THE ECOPETROL GROUP ACHIEVED THE HIGHEST OIL AND GAS RESERVES OF THE PAST 8 YEARS

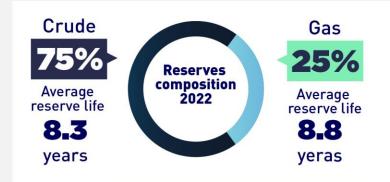


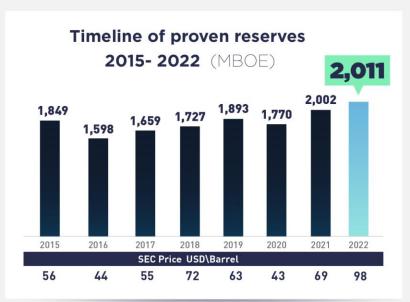


Amount of barrels produced vs barrels incorporated











2022 Reserves	MB0E			
1P Proven	2,011			
Probable		486		
Scenario 2P (Proven + Probable)	2	,497		
Possible	369			
Scenario 3P (Proven + Probable +	2,	866		
Contingent Res	ources			
Uncertainty range	1C (Low)	2C (Medium)	3C (High)	
Contingent	601	1,169	2,305	



¹ Million barrels of oil equivalent

^{*}Decimals are rounded off to the nearest whole number

Diversified exploratory portfolio focused on energy security

VALLE DEL CAUCA

2022

Strengthening the exploratory portfolio

Discovered resources:

- Uchuva-1
- Tejón-1
- Coralino-1

Contingent resources:

- Gorgon-2
- Lorito

Prompt progression to commerciality

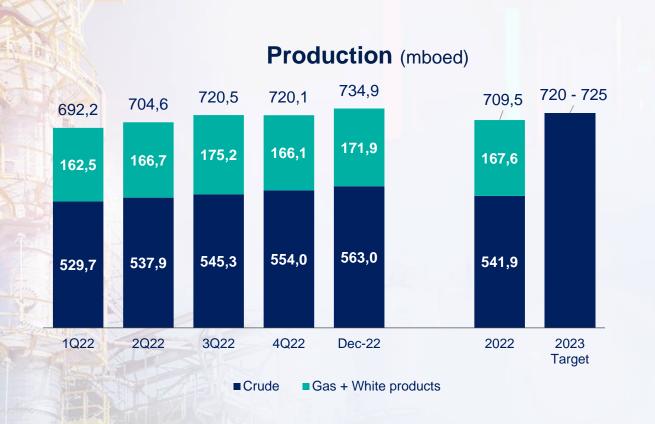
- Liria YW12
- Niño-2
- Ibamaca-1



GUAINIA

Outstanding production performance





Key Growth levers						
CAÑO SUR	+15 mboed dic-22 vs dic-21	Entry into operation of first fluid treatment train				
PERMIAN	Outstanding contribution production and res					

Increased Execution Capacity					
2021 2022					
# Development wells	395	536			
# Workovers	443	555			
# Rigs	20	28			

Contributing to TESG Strategy



Decarbonization

325 KTonCO2e reduced in 2022

+167% vs 2022 target Upstream



Water Neutrality in Chichimene

28%

52%

Reuse of total produced water (2 MBWPD)

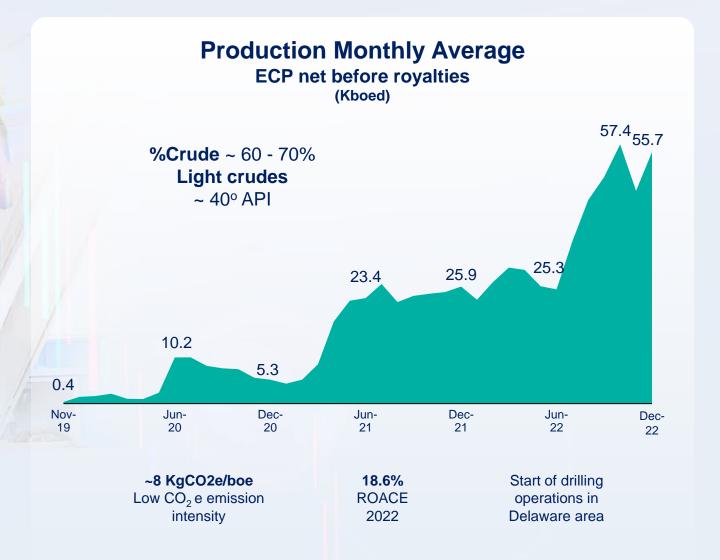
(2 MBWPD)

Reduction of freshwater withdrawal vs 2021 (87.7 KBWPD)

+20% vs 2021

Permian: a success story

	2019	2022
1P Reserves (Mboe)	164	207*
Wells on Production	4	209
Annual Average ECP's Production (Kboed net before royalties)	0.9	37.8
Cumulative Production (Mboe net before royalties)	0.1	22.8
EBITDA (MUSD)	1.4	644
EBITDA MARGIN	69.8	87%
OPEX (US / boe)	4.5	3.8



^(*) YE 2022 Reserves

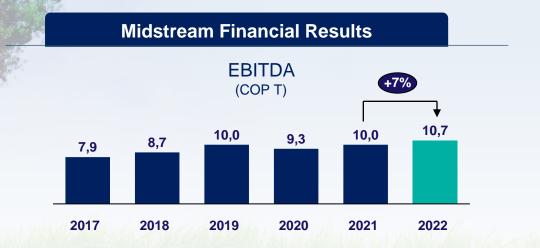
Infrastructure that leverages energy security

Transported Volume (mbd)





Record annual evacuation of the Pozos-Galan system 45.3 mbd



The midstream segment is carbon neutral



- ✓ Reduction of ~45.400 tCO2e during 2020 and 2021
- ✓ Actions under REDD+ mechanism and reforestation ~USD\$4M
- ✓ Positive environmental and social impact in 6 Departments and Municipalities.

Cenit acquired the small hydroelectric power plant Cantayús

Ecopetrol Group's 1st Hydroelectric Generation Asset

4.3mW/h
Installed Power

25,4GW
Generation capacity/
year

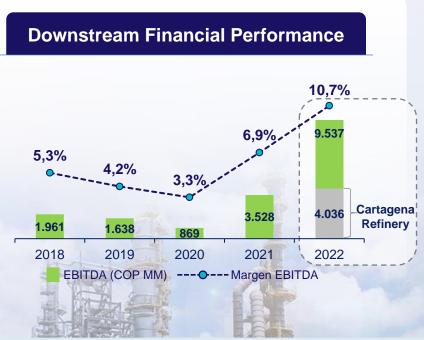
~ **63,000 tCO2** emissions to be avoided in 15 years

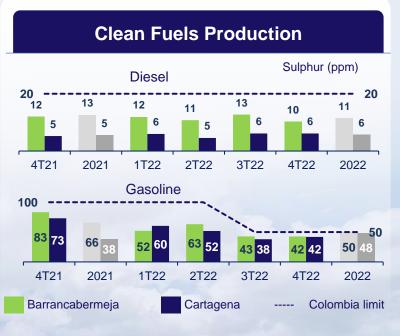




Record contribution from a growing downstream









Barrancabermeja Refinery "Best Refinery in Latin America" World Refining Association" (2022)



Record financial results in gross refining margin, EBITDA and net income



Cartagena Refinery record financial results



Expansion of the Cartagena Refinery (IPCC) +50 mbd capacity



94% operational availability



Execution of pilot tests:

Renewable diesel in October 2022

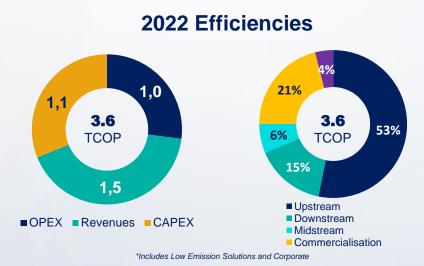
H2 green in 3Q22



Construction of a recycled plastic resin plant in Esenttia started

Focus on efficiencies continues mitigating inflationary impacts



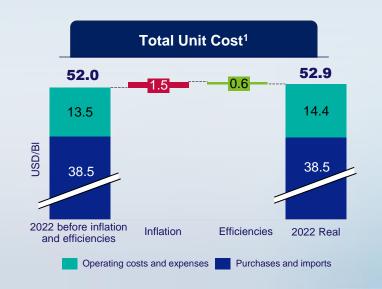


- ✓ Mitigate inflationary effects
- Focus on improving operational and technical performance of investment projects
- Margin and marketing revenue enhancement strategies



Refining Cash Cost 4.48 USD/BI (vs. 4.48 USD/BI)







Synergies that contribute to the growth of EG

Open innovation programs Science and **Innovation**



ECP Electrical Infrastructure

Reliability improvements, Opex optimization and emissions reduction

Approved Cybersecurity Management

IT and Cybersecurity







Supply

Process optimization to increase CAPEX returns and improve OPEX

Returns **Profile**





Linear Infrastructure with **CENIT**

Improve asset management and reliability and mitigate operational risks

New Energy Business





Environmental Management and **Environment**

Secure and accelerate emissions reduction targets

Main lines of work with synergies and estimated benefits for the EG of up to ~USD 360M

Reliability Initiatives

It will capture benefits for reliability improvement and deferred production reduction

USD ~9-15 M **Benefits**

Commercial Offers

- 6 initiatives of new connections
- 1 storage initiative
- 2 photovoltaic projects

USD ~115 M **Benefits**

New Business

- Infrastructure for Green Hydrogen
- Gas to Power International Interconnections

Energy Transition

- Energy Communities
- Roadmap for energy transition (MME*)

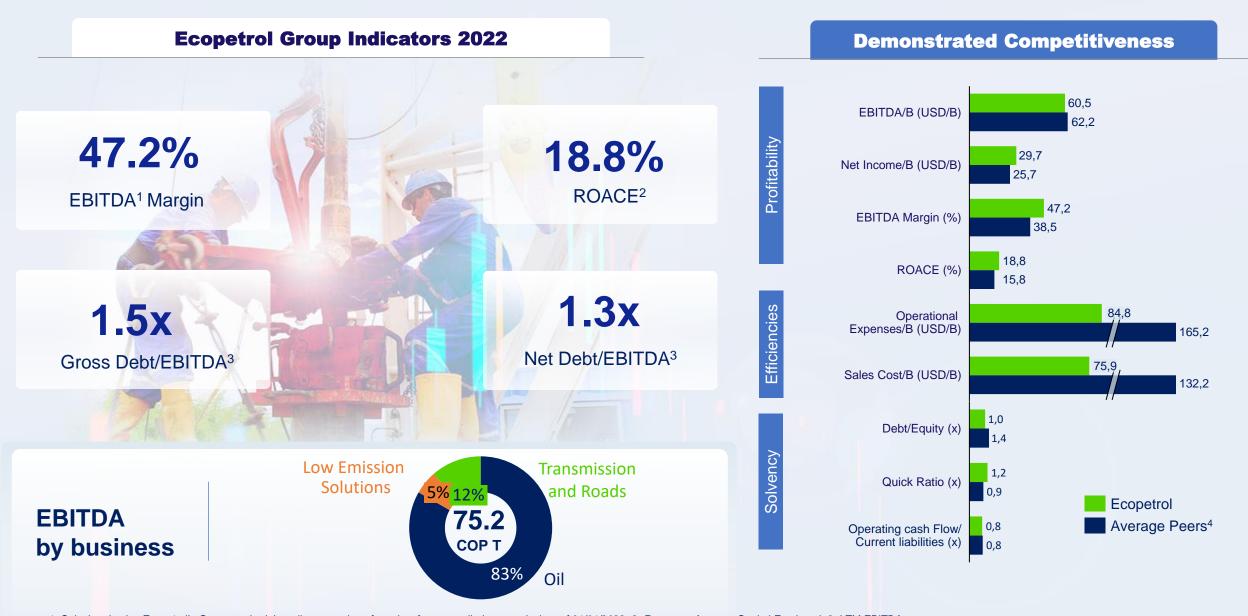
Expansion Plan

Structuring and management of the electric-energy plan of the EG 2023 - 2040

USD 190 - 230 M **Benefits**



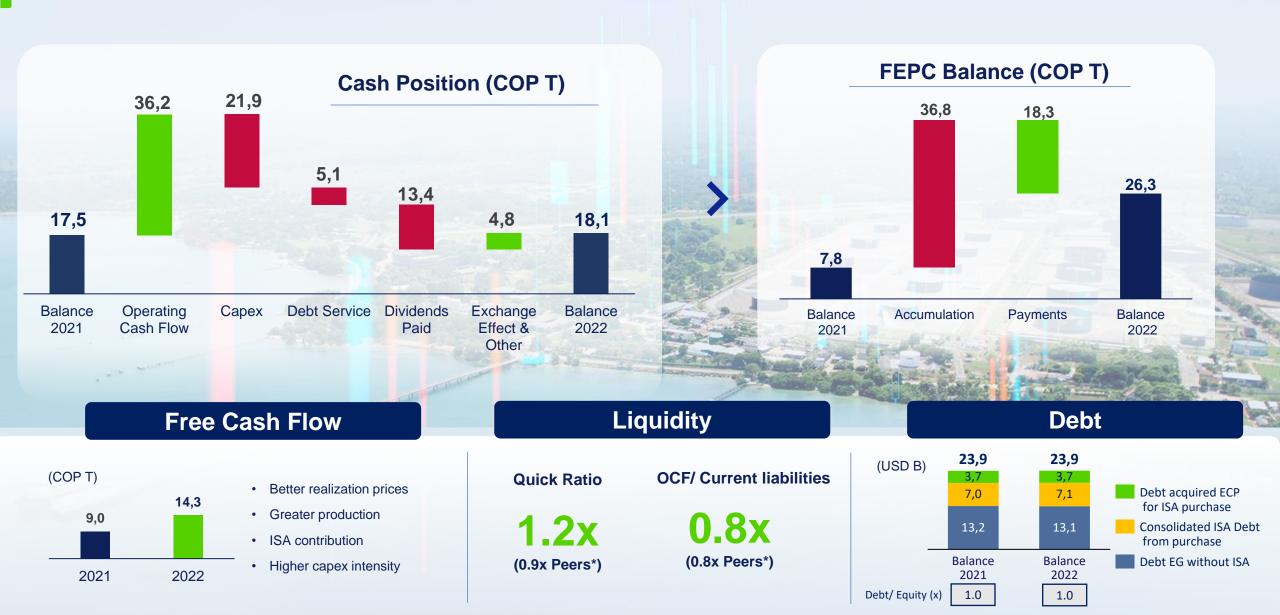
Financial strength of the business model



^{1.} Calculated using Ecopetrol's Group methodology (incorporation of results of co-controlled companies) as of 01/01/2022. 2. Return on Average Capital Employed. 3. LTM EBITDA.

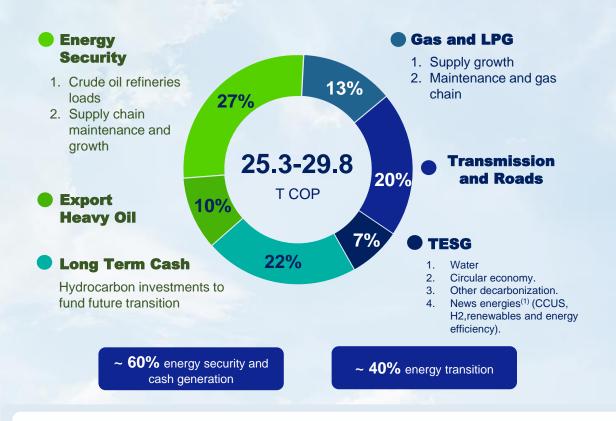
^{4.} Peers: Shell, Chevron, Exxon, TotalEnergies, BP, PTTEP, Equinor, Repsol, Hess, Marathon y ConocoPhillips.

Steadfast management of capital structure

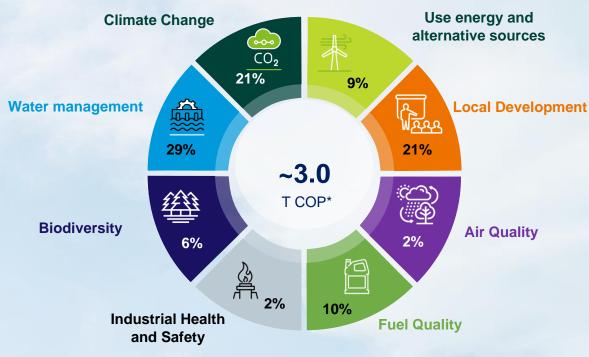


The 2023 financial and investment Plan is geared towards the energy transition and value creation

40% of the investments in 2023 are oriented towards the energy transition



The Ecopetrol Group allocates resources from the 2023 Plan in its commitment to TESG



*Includes ~2.2TCOP of Capex resources and ~0.8TCOP of Opex resources.

Main Indicators 2023 Plan EG⁽²⁾:

>40

>11

<2.1

720-725

25.3-29.8

>40

EBITDA Margin

ROACE³

Gross Debt/EBITDA

Production (MBOED)

Investments (T COP)

Transf. Nation⁴ (T COP)

Ecopetrol evolution in TESG®





The company ranks in the <u>96th</u> percentile, above the O&G average





	2016	2020	2021	2022
Ecopetrol	D	С	С	A-
O&G Average	С	С	В	В
Ecopetrol	В	В	В	В
O&G Average	B-	В	В	В



. ECP is part of the 44% of Oil & Gas companies that are at the leadership level.



i. CDP gave a rating (A) to the components: water policies, water in the corporate business strategy, and assessment of risks associated with water.

2016-2019 2020 2021 2021 2022 2022

Ecopetrol is a key player in Colombia's socioeconomic development





QUALITY, COVERAGE AND SCHOOL RETENTION

1.5% of students in public educational institutions benefited +120,000 students benefited



ACCESS TO SAFE WATER

Contribution to the 1.5% reduction of the national gap



PEACEBUILDING

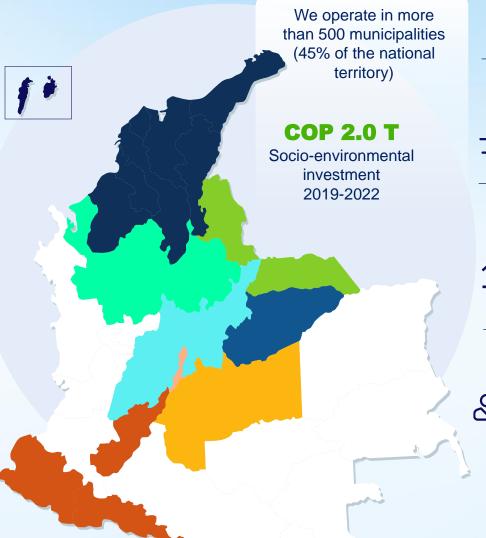
31% share of the total national quota "Obras por impuestos"

Impact on 72 municipalities y 15 departments



ROADS AND COMMUNITY INFRASTRUCTURE

30% annual social investment of ECP 708 Km intervened





ENERGY TRANSITION

Approval for the development of solar photovoltaic solutions projects for 766 households in the Department of Putumayo.



CONTRIBUTION TO LOCAL ECONOMIES

GDP growth contribution of 0.1 % per year **130,000 jobs in 2022** including suppliers (+20% vs 2021)



INCLUSIVE RURAL DEVELOPMENT

+ 4,000 farming families benefited Strengthening of productive, logistical and marketing capacities.



EMPLOYMENT AND INCOME GENERATION

+16,000 jobs per year thanks to social investment

"Programa Ecopetrol Emprende"

11.750 entrepreneurs benefited
MiPymes: 25% growth in employment creation.

In Summary...

- Commitment to just and responsible energy transition
- Robust and highly qualified team
- 2023 Investment Plan underway





Progresión de recursos y reservas en el Grupo Ecopetrol



