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ECOPETROL IS AN INTEGRATED OIL & GAS COMPANY

UPSTREAM



- 5 countries: Col, US (GoM and Permian), Mexico, Peru, Brazil
- 20 exploration wells in 2019
- Production 725 mboed

MIDSTREAM

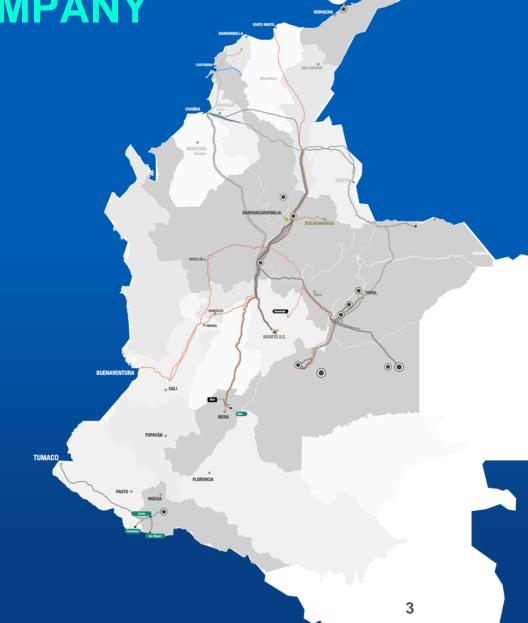


- 5 companies: CENIT, Ocensa, ODL, ODC, OBC
- Installed evacuation capacity:
 - Oil pipelines: ~1,300 kbd
 - Product pipelines: ~ 340 kbd

DOWNSTREAM



- 2 refineries: Barrancabermeja and Cartagena.
 - Installed capacity 400 kbd
- Esenttia, Bioenergy, Ecodiesel



Incumbent position of the Group in Colombia*

68 years of operation

gives us a deep knowledge of the environment in which we operate



56.7 BBOE

de HCIIP

1,893 MMBOE

of Proven Reserves

Sustainability of the Core Business

82%

of oil pipelines capacity belongs to Ecopetrol, directly or through subsidiaries

100%

of product pipelines belongs to Ecopetrol



400 mbod

99% of crude oil refining capacity belongs to Ecopetrol



Plan responds to crisis and protects pillars of 2020+ Strategy





RESERVES AND PRODUCTION GROWTH

- **Existing Fields:** enhanced recovery technology and focus in opportunities that generate the most value
- Exploration in Colombia: drilling of +30 wells during 2020-2022
- Unconventional: PPII* in the MMV** program is ongoing; optimized Permian development plan
- International: investments in development of areas with high potential (Brazil and Permian)

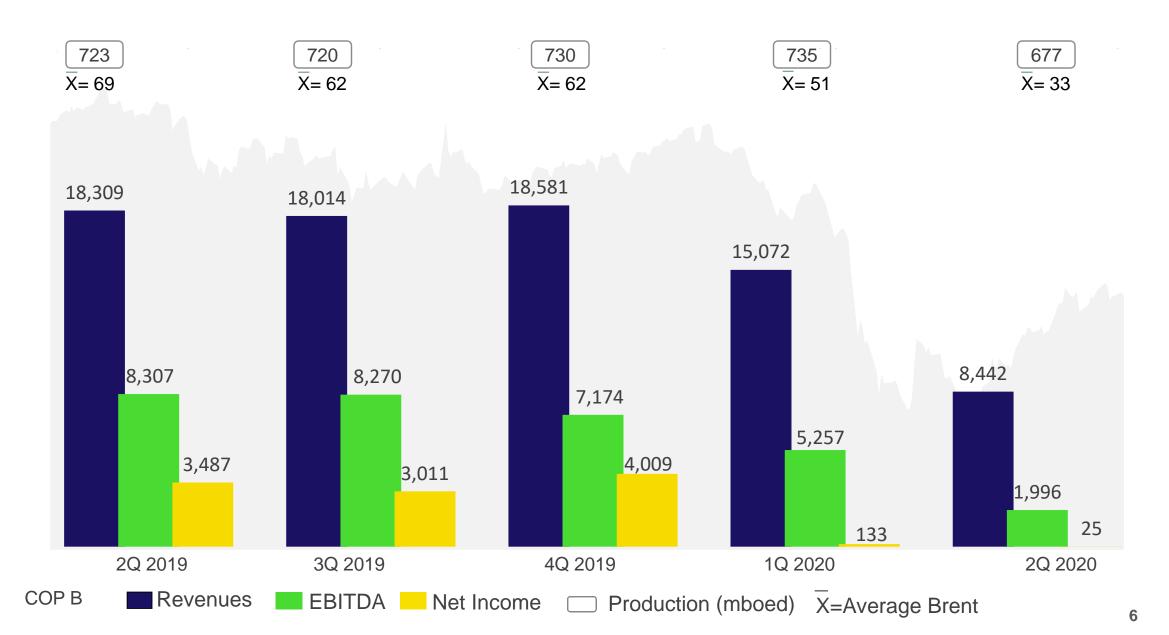


PROGRESS IN ENERGY TRANSITION

- Gas: investments in Piedemonte, Caribbean Offshore and existing fields
- Energy efficiency, decarbonization and renewable energies



Results impacted by market conditions



Operating milestones

Exploration

Colombia

Merecumbe-1 gas well discovery*

International

Ecopetrol's entry in Gato do Mato discovery formalized



MERECUMBE (SUCCESSFUL)

Production

Mboed

677 706 2Q 2020 1H 2020

Production (kbped)



Hocol's operation of Guajira asset (43%)**

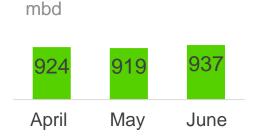


Midstream

927 1,031

2Q 2020 1H 2020

Transported volume (mbd)



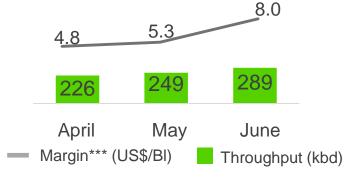
Relief to producers to incentivize demand

Stable volumes

Downstream

255 300 2Q 2020 1H 2020 Throughput

Throughput (mbd)



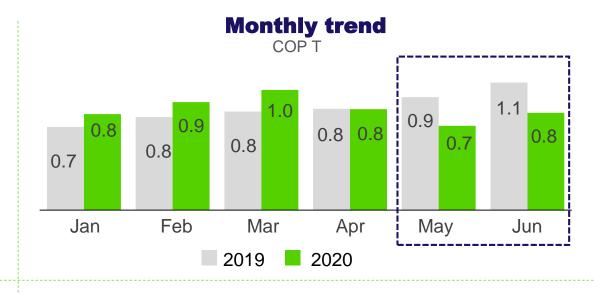
Operational continuity with minimum vital

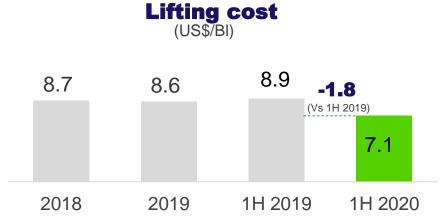


Interventions reflected in cost trend change

Group operating costs and expenses*



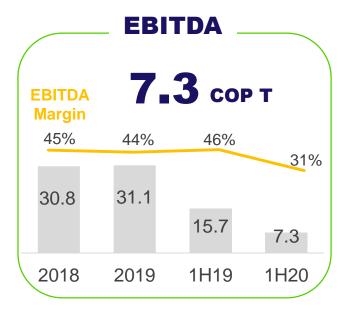








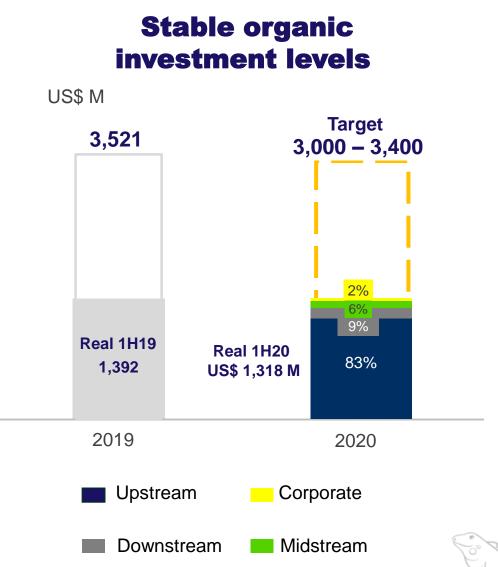
Financial metrics adjusted to current juncture





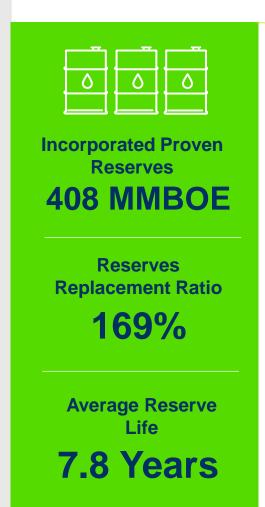


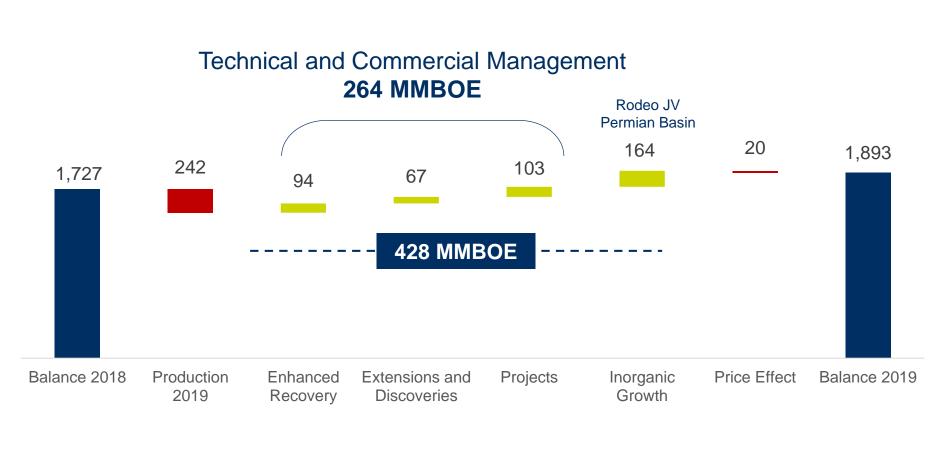






Consistent reserves growth

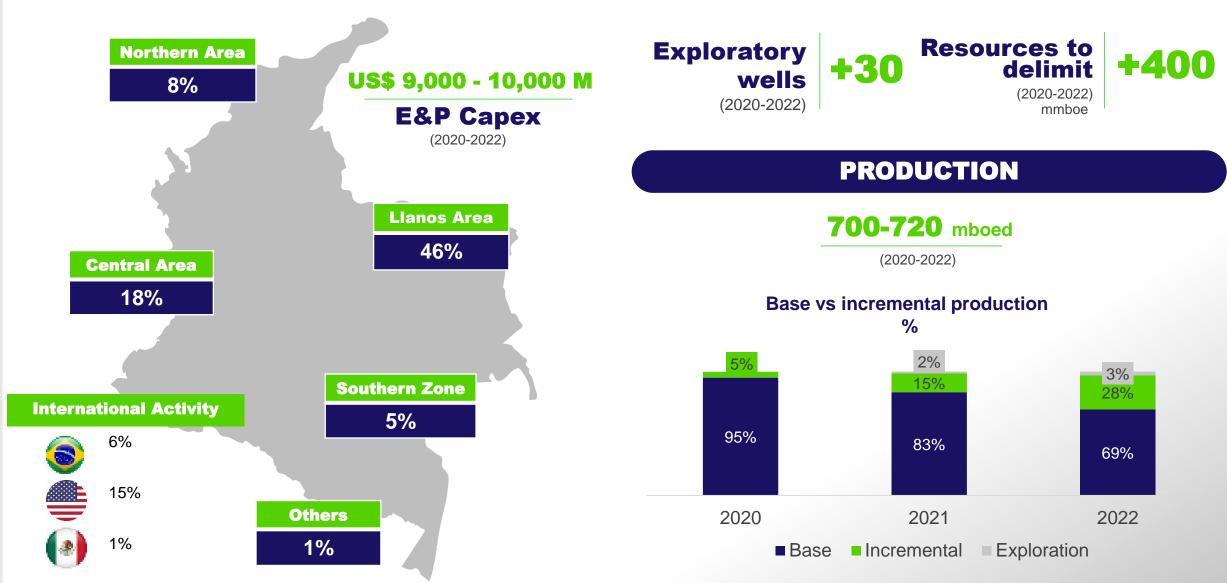








Upstream investments focused on sustainability



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Profitable production and reserves protection

FOCUS ON VALUE AND OPTIONALITY

(%) Percentage share in production volumes 2020-2022

1.3% - 3%

1% - 4%

2% - 3%

15% - 17%

- 20% **-** 22%

54%-60%

Primary

NGL*

Secondary

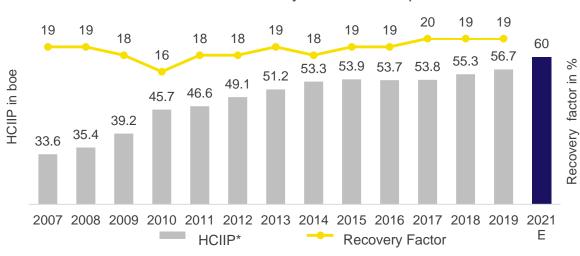
Tertiary

Unconventionals

Exploration

RESERVES POTENTIAL UNCHANGED





**HCIIP: Hydrocarbons Initially In Place

*Includes NGL production by secondary recovery

MAIN ASSETS CONTRIBUTING TO RESERVES ADDITION:



- Tren Piedemonte
- Water injection in Castilla, Chichimene, Apiay, Llanito and Yariguí
- Near Fields
- 🜖 Gato do Mato and Permian

US\$

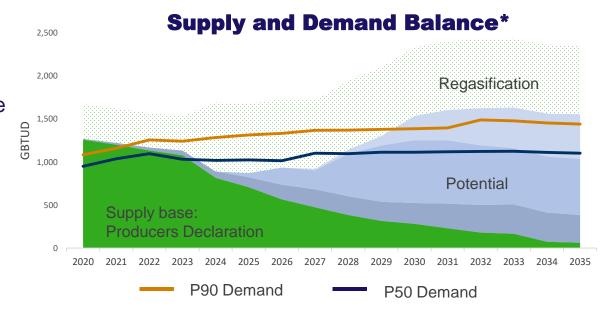
780-870 M

2020 - 2022

Gas is a strategic priority

FOCUS:

- Development of Piedemonte
- Strengthening of Guajira assets
- Development of Offshore Colombian Caribbean
- Time to Market



INVESTMENTS

Piedemonte (Casanare, Arauca and Boyacá) Continental Caribbean Coast (Atlántico, Guajira and Sucre)

Colombia Offshore

EBITDA margin

53%

2 Q 2 0 2 0

Gas Prices

Colombia

4.4**

2020-2022

Henry Hub***

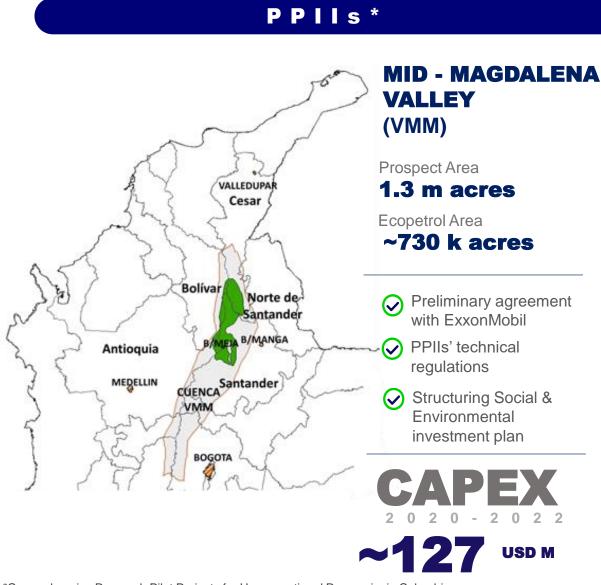
@ Cartagena

1.8 - 3.1

3.5-7.0

^{*}Source: MME (Gas Production Statements 2020), UPME (Regasification), Ecopetrol's estimates (Potential)
** Average natural gas price in Colombia as reported by the Market Manager *** Source: IHS Agency

Progress in unconventional reservoirs



PERMIAN **51%** PERMIAN O (Rodeo JV) **Knowledge** transfer 15 secondees **Net Capex ECP Ecopetrol's** ~5.5 average net production 2020 mboed Wells to be **Producing** ~22 drilled in wells as of 2H 2020 1H 2020





Focus on integrity and reliability of supply

STRATEGIC PRIORITIES

- Integrity and reliability of infrastructure
- Logistical flexibility and efficiency in transportation of heavy crudes
- Cost Efficiency

INVESTMENTS

US\$
780-830 M
2020 - 2022

Maintenance
Geotechnics
Reliability of tanks
Operating storage of refined products



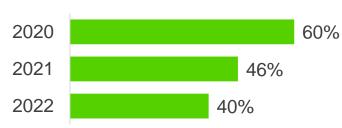
2020 - 2022 TARGETS

1,000 - 1,025

Transported volumes (kbd)



EBITDA contribution to EG*





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Competitiveness in low price environment

STRATEGIC PRIORITIES

- Initiatives to improve margin and capacity
- Reliability of the operation
- Maximizing value of existing assets
- Cost efficiency

INVESTMENTS

IPCC*
Quality of fuels
Major maintenance
Waste water treatment plan in
Barrancabermeja Refinery

TARGET 2020-2022

300 - 380

Throughput (mbd)

Cartagena Refinery

Current With IPCC*

Throughput capacity (kbd) 150 200

Processing units

34

35

Heavy and medium crude throughput



Quality of Fuels

Gasoline with less than 50 ppm in Colombia by 2021



Optimized portfolio that safeguards value proposition

- Safe, reliable and profitable production
- Cash flow protection
- ▼ STRATEGIC
 THEMES:
 gas, energy
 transition and
 unconventionals

INVESTMENT PLAN 2020-2022

11,000 - 13,000

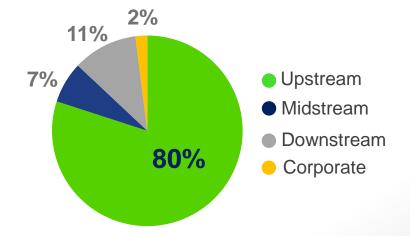
2020 -2022 (US\$ M)

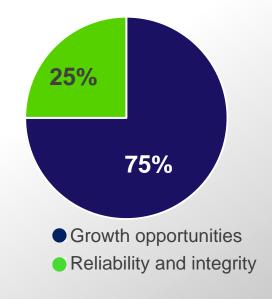




10%

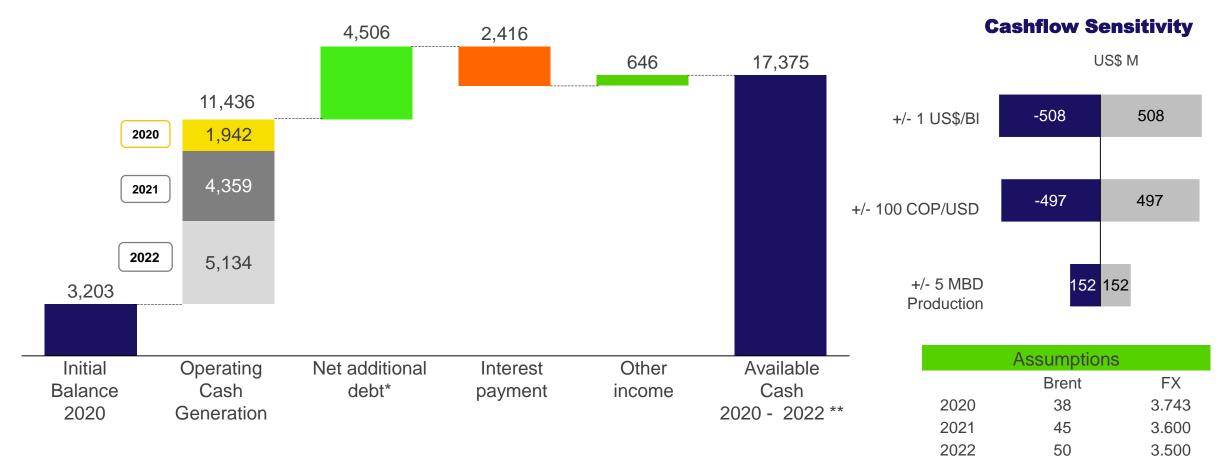
ONSHORE OFFSHORE





Investment plan underpinned by cashflow growth

2020-2022 Cashflow (US\$ M)



Intensified focus on cost efficiency

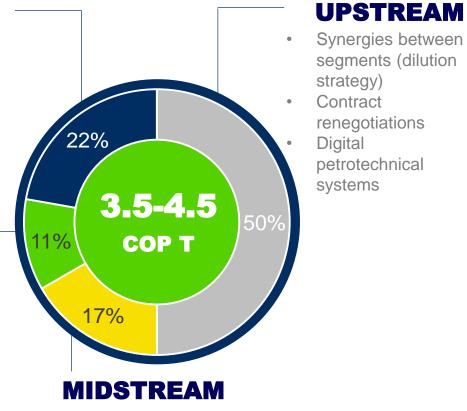
2020 COST SAVINGS

GROUP - WIDE Austerity measures

- Demote work
- Remote work
- Headcount

DOWNSTREAM

- Energy, gas, chemical and catalyst consumption
- Maintenance efficiencies prioritizing integrity and reliability



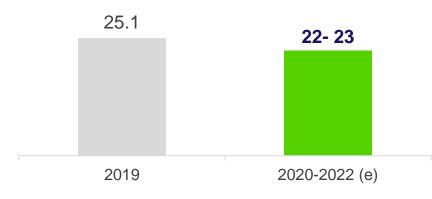
- Efficiencies in energy sources and optimization
- Time optimization in pumping stations

INCREMENTAL TARGET BY 2022

2.5 - 3.0

2021 -2022 (COPT)

TOTAL COST PER BARREL* US\$/BI





Growing value creation

TARGET

METRIC 2020-2022 2020 US\$ 3,000 - 3,400 M **Organic Investments** US\$ 11,000 - 13,000 M **FINANCIAL Operating Cashflow** ~US\$ 1,900 M US\$ 11,000 M - 12,000 M Cash Breakeven* < US\$30 /BI US\$ 30 - 40 /BI Gross Debt / EBITDA (x) < 3.5x< 2.5x**Production (mboed)** ~700 ~700 - 720 **OPERATIONAL Transported Volume (mbd)** ~1,000 ~1,000 - 1,025 Throughput (mbd) ~300 - 380 300 - 320 **Social & Environmental** Innovation and Decarbonization TESG** investment **Technology** 1.8 - 2.0 MtCO2e/ by **COP\$ 1.7 T** ~US\$ 158 M 2022 2020 - 2022 2020 - 2024

BRENT (US\$/B) 2020 38

2021 45 2022 50



TESG* commitment

DECARBONIZATION



Reduction of

20% emissions by 2030

Initiatives in place:



Renewable energy portfolio: 300 MW** by 2022



3% increase in energy efficiency by 2022



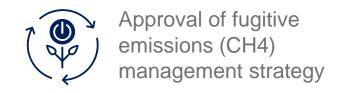
Zero Routine Flaring*** by 2030



Nature based solutions to capture CO2

RENEWABLE ENERGY





INNOVATION AND TECHNOLOGY

INVESTMENT 2020-2022



SOCIO-ENVIRONMENTAL INVESTMENT



ESG REPORTNG AND DISCLOSURE



Making Progress in Diversity and Inclusion

Gender

- Women participation in leadership and core positions
- Work/life balance
- Gender based violence prevention

72%

Vacancies of leadership positions with women as final candidates

38% in 2018

Disability

- Inclusive labor environment
- Taking care of Caregivers
- Moving from integration to inclusion

7.6%

People with disability*

Victims of **Internal Conflict, Veterans** and **Ex-Combats**

- · Economic, social and cultural inclusion
- Equal opportunities

2.9% 0.2%

Victims of internal conflict*

Veterans*

Ethnicity and Other Social Conditions

- Cultural awareness
- Equal opportunities and entrepreneurship

Sexual Orientation

- Awareness, training and information
- Friendly labor places for SOGI community free of discrimination
- Equal opportunities

4.0%

of people identify themselves as part of an ethnic minority group*

Ongoing initiatives with 28 volunteers

27 * Of the personnel

Fully Committed to Best Corporate Governance Practices

Board of Directors



Orlando Ayala

Independent



Luis Guillermo Echeverri

Independent



Juan Emilio Posada

Independent



Sergio Restrepo

Independent



Luis Santiago Perdomo

Independent



Esteban Piedrahita

Independent



Germán Quintero

Non Independent



Hernando Ramírez

Independent



Carlos Gustavo Cano

Independent

Board Oversight

- Best Corporate
 Governance Practices
- Remuneration and Nomination
- HSE
- Innovation and transformation to digital leadership
- Strategy and New Business
- Succession planning policy

Ethics and Compliance

- Commitment to Transparency
- · Training in Ethics aspects
- Multiple venues to look for guidance or whistleblowing
- Preventive surveillance to prevent money laundering and terrorism financing
- Fair and confidential investigation process

Protection of Minority Shareholders

- Independent directors: from four in 2008 to eight in 2019
- A position in the Board of Directors nominated by the ten largest minority shareholders
- A position in the Board of Directors nominated by hydrocarbon producing regions in Colombia
- No director with ministerial rank following OECD recommendations
- Clear and timely information to shareholders
- Shareholder's Office

Corporate Governance Model

New Corporate
 Governance Model that
 underpins the execution of
 the business plan



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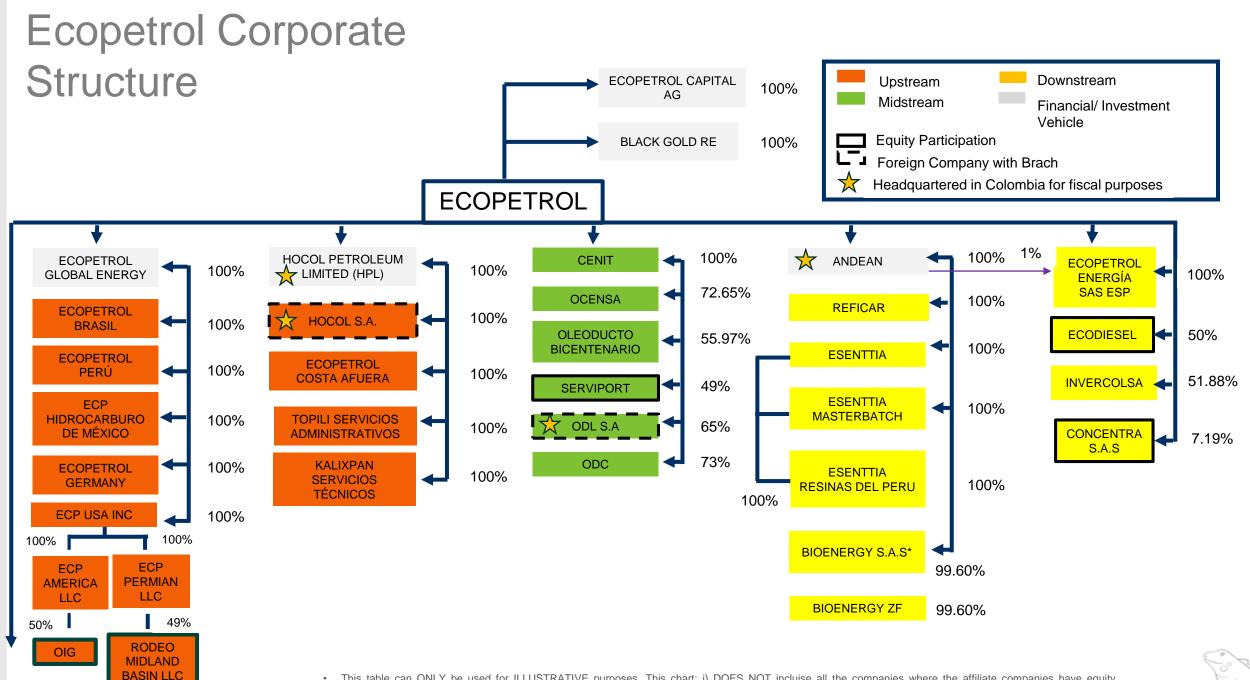
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Definitions

Acronym	Definition
bboe	Billion barrels of oil equivalent
BI	Barrel
boed	Barrels of oil equivalent per day
CAGR	Compound Annual Growth Rate
CEOR	Chemical Enhanced Oil Recovery
CFFO	Cash Flow From Operations
EOR	Enhanced Oil Recovery
ESG	Environmental, Social and Governance
Gbtud	Giga BTU per day
GHG	Greenhouse Gas
HCIIP	Hydrocarbons Initially In Place
JV	Joint Venture
KtCO2e	Thousand Metric Tons of Carbon Dioxide equivalent
mbd	Thousand barrels per day
mboe	Thousand barrels of oil equivalent
mboed	Thousand barrels of oil equivalent per day
Mbtu	Million BTU
Mmboe	Million barrels of oil equivalent
mm3	Million Cubic Meters
MtCO2e	Million Metric Tons of Carbon Dioxide equivalent
MW	Megawatts
NFE	Near Field Exploration
PPIR	Pilot Projects for Integral Research
PPM	Parts Per Million
ROACE	Return on Average Capital Employed
RRR	Reserves Replacement Ratio
SOGI	Sexual Orientation and Gender Identity
TCF	Trillion Cubic Feet
TRIF	Total Recordable Case Frequency
US\$ B	Billion dollars
US\$ M	Million dollars





[•] This table can ONLY be used for ILLUSTRATIVE purposes. This chart: i) DOES NOT incluise all the companies where the affiliate companies have equity participation; ii) ONLY includes the equity participation from/or derived from Ecopetrol and; iii) ONLY includes the approximated percertange (not decimals).

^{• 2019} Figures

Subsidiaries

























































OIL AND GAS INFRASTRUCTURE

