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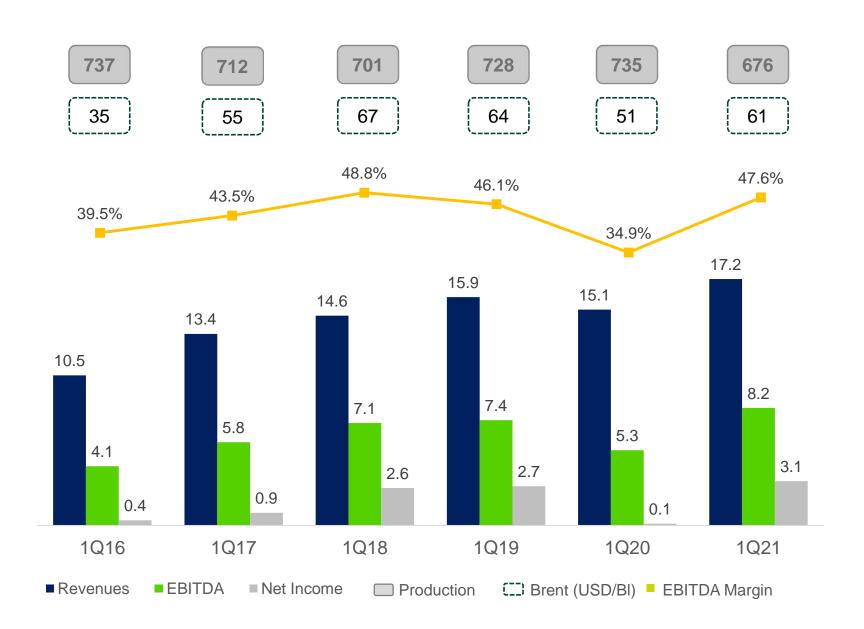
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#### **Extraordinary recovery after the crisis**



## Relevant Milestones of the Quarter



Shareholders Meeting
100% Virtual
COP 17 Dividend / Share



Successful Commercial Strategy continues to enable new export destinations



Due Diligence Process Progress for possible acquisition of controlling interest in ISA



#### Making progress towards the energy transition



#### **DIVERSIFICATION**









Efficiencies COP 263.7 B



**Digital Benefits**USD 12 M





Transmission Sector Entry
Offer to acquire controlling stake
in ISA



Hydrogen Strategy
First Molecule
Production 2022 - 2025





Net Zero Emissions 2050 Commitment



**Solar Parks**San Fernando: 46% Progress



Flaring Reduction 52%: 2017 - 2020





Cecilia María Vélez White Appointment in BoD



BoD Special Committee ISA's Valuation



SASB, TCFD and SCM
Publication in ISMR\* and 20F

#### **Exploration**

#### Increased asset contribution

**Exploratory** wells completed drilling phase

#### **Exploratory success**

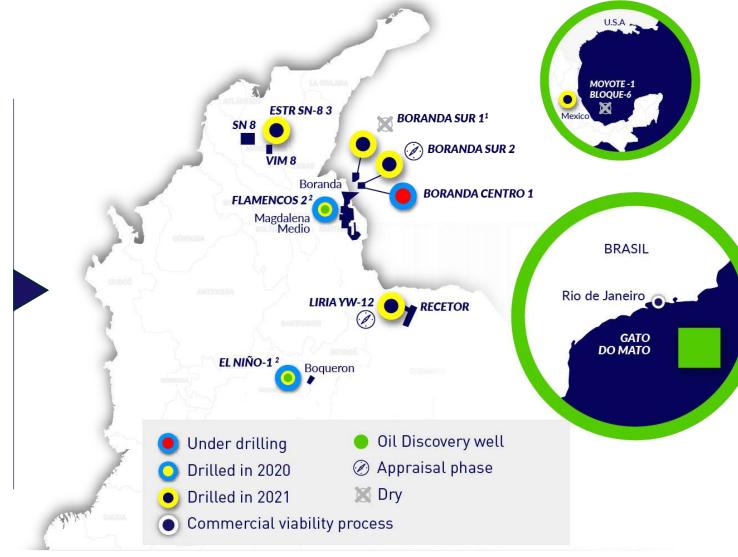
Flamencos-2 El Niño-1

**Production** 

+39% vs 1Q20

**Discoveries** delineation

Boranda Sur-2 Flamencos-2



- (1) Well abandoned due to technical problems, failed to reach the section of interest...
- (2) Flamencos-2 and El Niño-1 wells were drilled in 2020, declared successful in 2021.
- (3) Est SN-8 well is a study well that does not prove the presence of hydrocarbons.



#### **Production**

**EBITDA Margin** 

#### Robust value generation amidst operational challenges



<sup>\*</sup> Number of development wells drilled and completed

<sup>\*\*</sup> Corresponds to the contribution of the upstream segment (Exploration + Production)

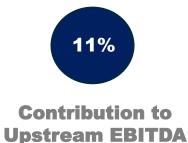
#### **Production**

#### Development of gas portfolio in line with strategy

GAS + GLP

23%

of the Group's production



Margin

Gas and LPG EBITDA Margin

53%



**Greenhouse Gas Emissions Reduction** 

Reduction of 88.980 tCO2e

#### **Key Projects Progress**

- Development wells and maturing prospects in Piedemonte
- Drilling activities in Liria YW12
- Delimitation of discoveries and extensive tests with Hocol

#### **Hydrogen Strategy Definition**



- Pilots
- Public Policy and regulations
- Suppliers and partners
- Commercialization to third parties
- The Group and country's roadmaps

#### **Production**

#### Progress in the development of unconventionals reservoirs

#### **KALÉ PROJECT**

#### **PERMIAN**



**51%** oxy

49% ECOPETROL



44 Wells in production



EBITDA MARGIN

56%





6.2 mboed ECP net pre royalties

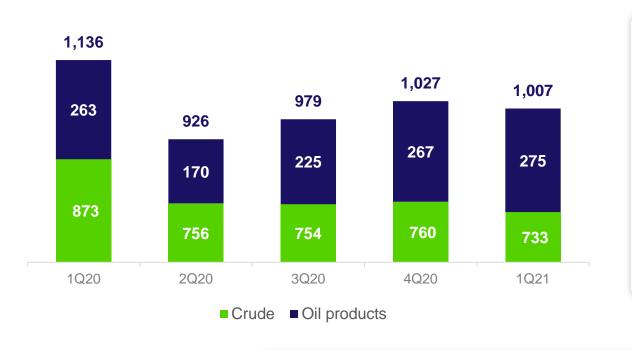
5 1 mboed ECP net post royalties

Operative Milestones	2020	1021
Spud to Rig Release	9.7 days	9.25 days
Average time per well	14 days	12.2 days
Pumping per day	1962 ft per day	1975 ft per day
Pumping hours per day (completion operations)	19.7 hours	22.3 hours

#### **Midstream**

#### Continued focus on reliability and efficiency

TRANSPORTED VOLUME (mbd)





#### **Approval of the General Attorney's**

**Office** to the settlement agreement between Cenit and Frontera

**16 consecutive months** with no reversal cycles in the Bicentenario pipeline

**New Operational Model of Cenit** 





Crude oil volumetric trend aligned with domestic production



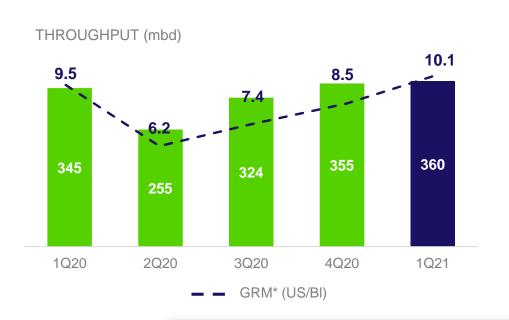
Pipeline Network Expansion Plan (MME)\*

8 projects



#### **Downstream**

#### Performance exceeds pre-pandemic levels







#### **GRM\*** and throughput

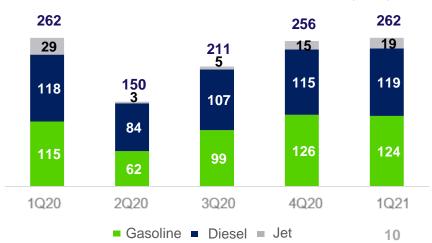
levels higher than 2020

Demand of **refined products** largely recovered

**Best segment EBITDA** in the last 5 quarters



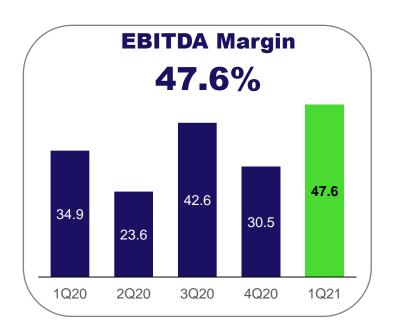
#### SALES VOLUME OF REFINED PRODUCTS (mbd)



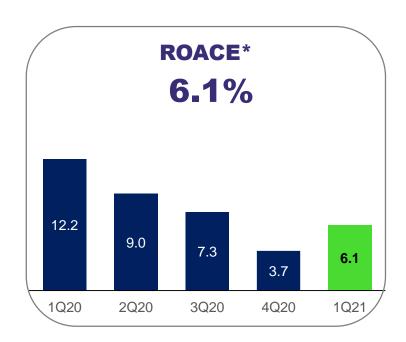


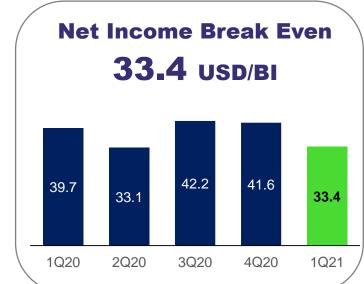


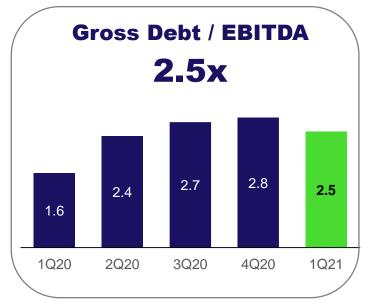
#### Strengthened financial indicators







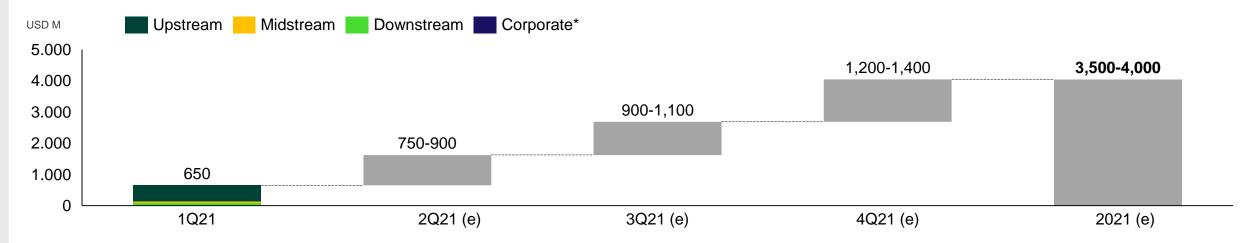






#### **Investment Plan execution is on track**

#### **Execution consistent with 1Q's seasonality**

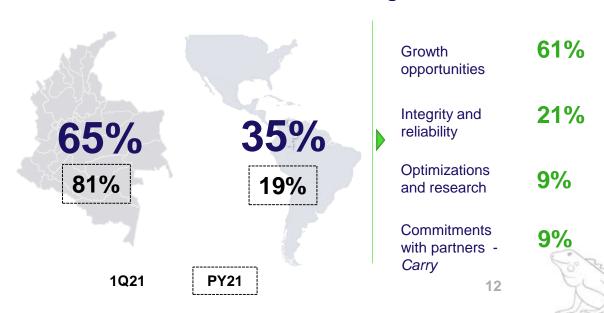


<sup>\*</sup> Includes investment in energy transition projects

#### One of the largest 1Q executions in the last 5 years

# Commitments with partners – Carry\* Organic 407 312 407 2017 2018 2019 2020 2021

#### Main focus on domestic chain growth



<sup>\*</sup> Commitments with partners mainly related to Gato do Mato in 2020; to Permian in 2021

#### In summary...



## Robust start to the 2021 – 2023 Business Plan

Results above our expectations



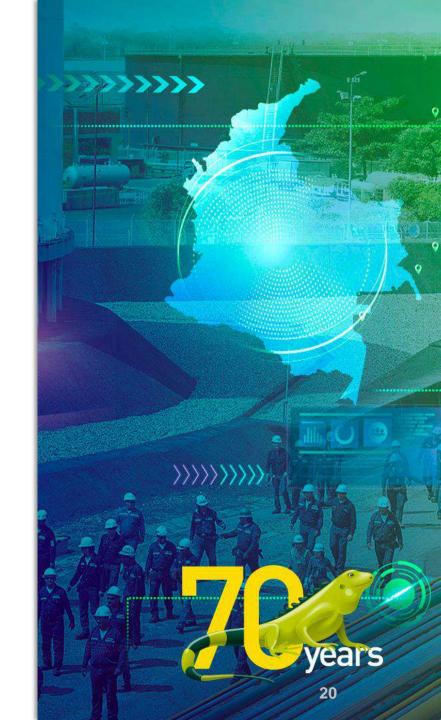
## **Concrete steps in the Ecopetrol Group's energy transition**

Decarbonization Plan, TCFD - SASB, Progress in Due Diligence of ISA



## **Commitment to life as the highest priority**

Employees safety and social investment "Apoyo País" / COVID-19



## USAMOS NUESTRA ENERGÍA PARA CONSTRUIR UNA EMPRESA Y UN PAÍS DE TODOS, PARA TODOS



#### **GLOSSARY**

Acronym	Definition
BI	Barrel
bped	Barrels of oil equivalent per day
COP B	Billion Colombian Pesos (Nine zeros)
COP M	Million Colombian Pesos (Six zeros)
COPT	Trillion Colombian Pesos (Twelve zeros)
FCF	Free Cash flow
JV	Joint Venture
Mbd	Thousands of barrels per day
Mboed	Thousands of barrels of oil equivalent per day
MtCO2e	Million Metric tons of Carbon Dioxide equivalent
OCF	Operating Cash Flow
ROACE	Return on Average Capital Employed: Operating income after tax / Capital Employed. Calculated in pesos
TESG	Technology, Environmental, Social and Governance
USD	US dollar
USD B	Billion dollars
USD M	Million dollars

## Annexes



#### ECOPETROL AIMS FOR

## **NET-ZERO CARBON EMISSIONS**

BY 2050

TARGET BY

TARGET BY

REDUCTION 25% vs. 2019 scope 1 & 2

**NET - ZERO EMISSIONS** 

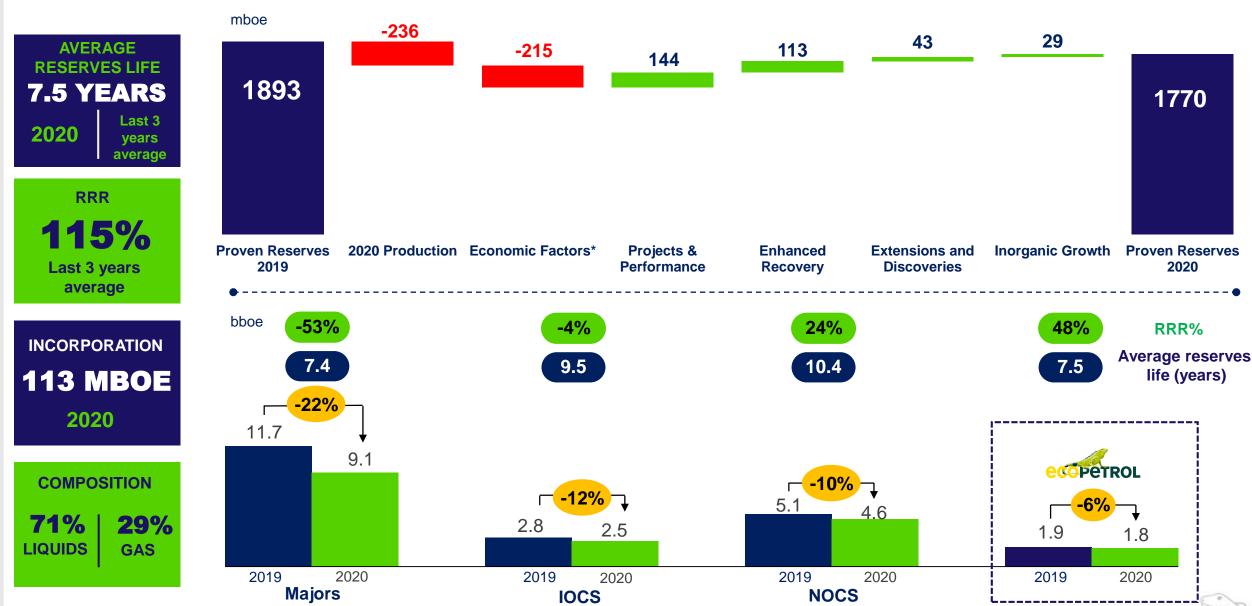
REDUCTION scope 1, 2 & 3





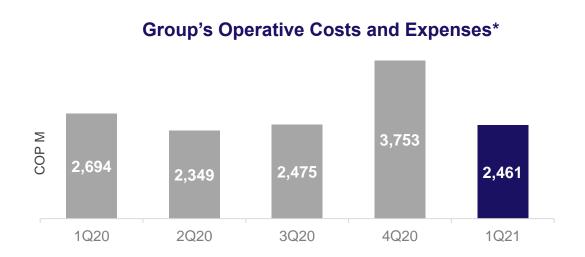
#### INITIATIVES **Reduction of fugitive** emissions, venting, and flaring **Energy** efficiency Renewable energies (solar, wind, geothermal and biomass) **Hydrogen** initiatives **Natural climate** solutions **Carbon Capture,** Usage and Sequestration **Energy storage** in batteries

#### Increasing resilience of our reserves portfolio

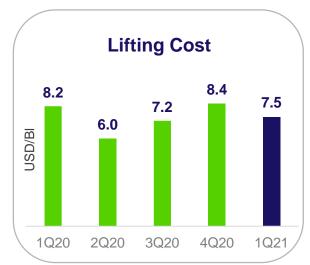


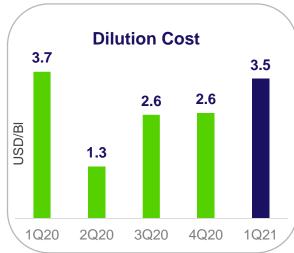
<sup>\*</sup>Economic factors include Price effect and reevaluated projects.

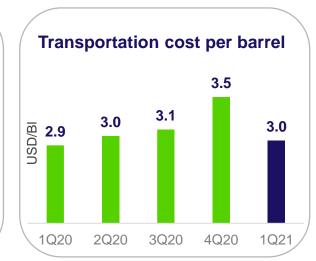
#### Cost trends reflect focus on efficiencies









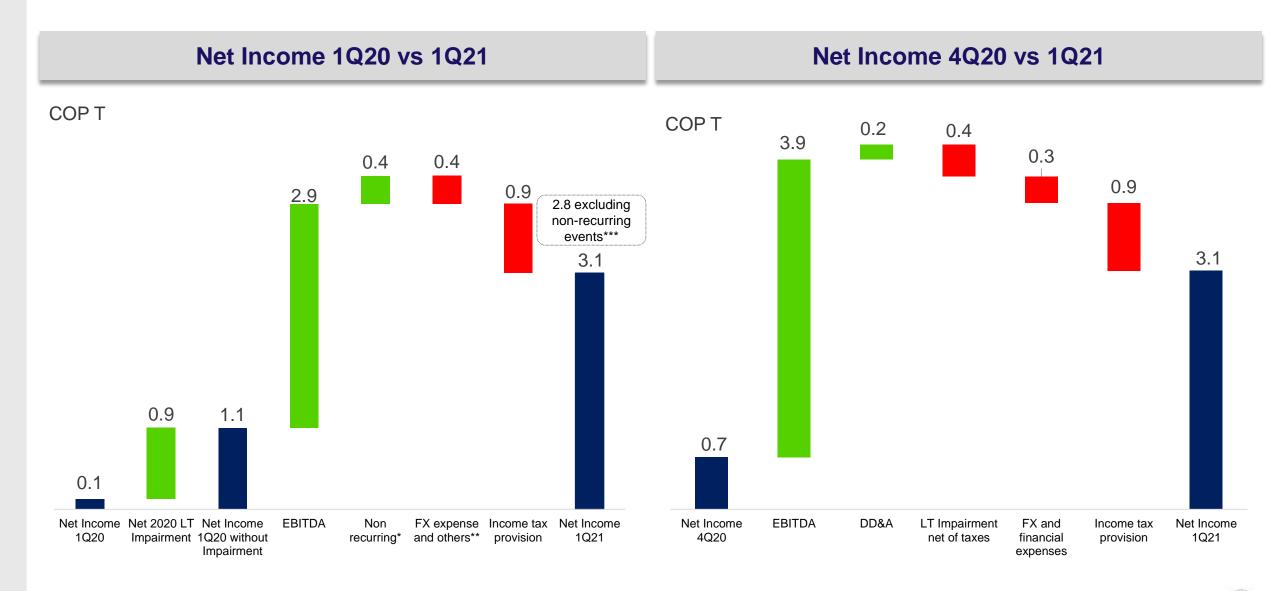




<sup>\*</sup> Costs and operational expenses without depreciation and amortization, taxes or purchases and imports of crude and oil products

<sup>\*\*</sup> It includes transportation, operational costs and operating costs for this quarter. Calculated over barrels sold during the quarter

#### First quarter captures benefit of improved price environment



Non-recurring, before taxes, of COP 364 billion due to currency conversion adjustments in the sale of Savia.

<sup>\*</sup> Includes: i) COP 230 billion in FX expense; ii) COP 121 billion of financial expense; iii) DD&A for COP 72 billion; and iv) Non-Controlling Interest (positive) for COP 55 billion.

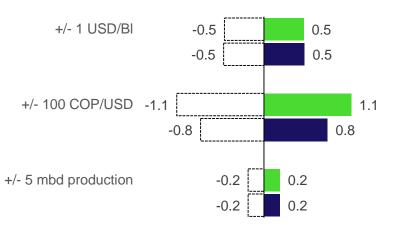
<sup>\*\*\*</sup> No recurring, net of taxes, of COP 271 billion (Savia adjustment).

#### Investment supported by internal cash flow generation













#### Organic plan responds to market conditions and maintains value proposition

#### **METRICS**

2021

US\$ 3,500 - 4,000 M

US\$ 3,500 - 5,000 M

2021- 2023

US\$ 12,000 - 15,000 M

US\$ 14,000 - 16,000 M



Organic Investment **Operating Cash Flow EBITDA Margin** Gross Debt/Ebitda



Increases competitiveness





Cement energy transition

Production (mboed) Exploratory wells Transported Volume (mbd) Throughput (mbd)

3	35% - 38%	
	<2.5x	
	_	
~700-710	~700 - 750	
~9	~40	
	>1,000	
~340 - 365	~340 - 420	

200/

250/



**Decarbonization** 

**US\$ 600 M** 2021-2023

**Innovation and Technology** Investment

> **US\$ 100 - 150 M** 2021-2023

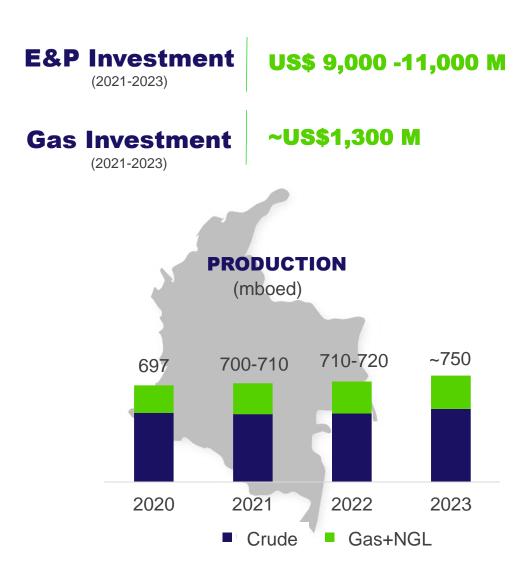
Social and environmental Investment

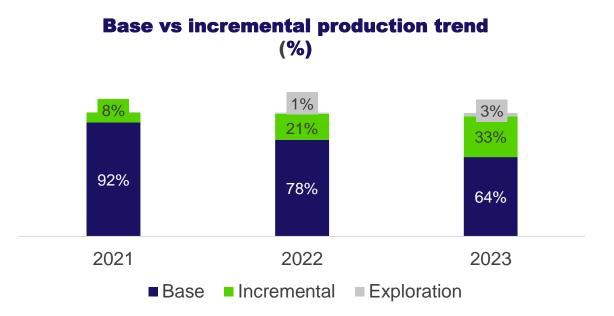
> **COP\$ 1.7 B** by 2024

BRENT	2021	2022	2023
(US\$/B)	45	50	54

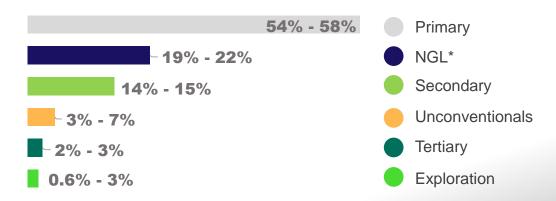


## Focus on growth and addition of production and reserves competitive at ≤ US\$ 45 - 50/bl

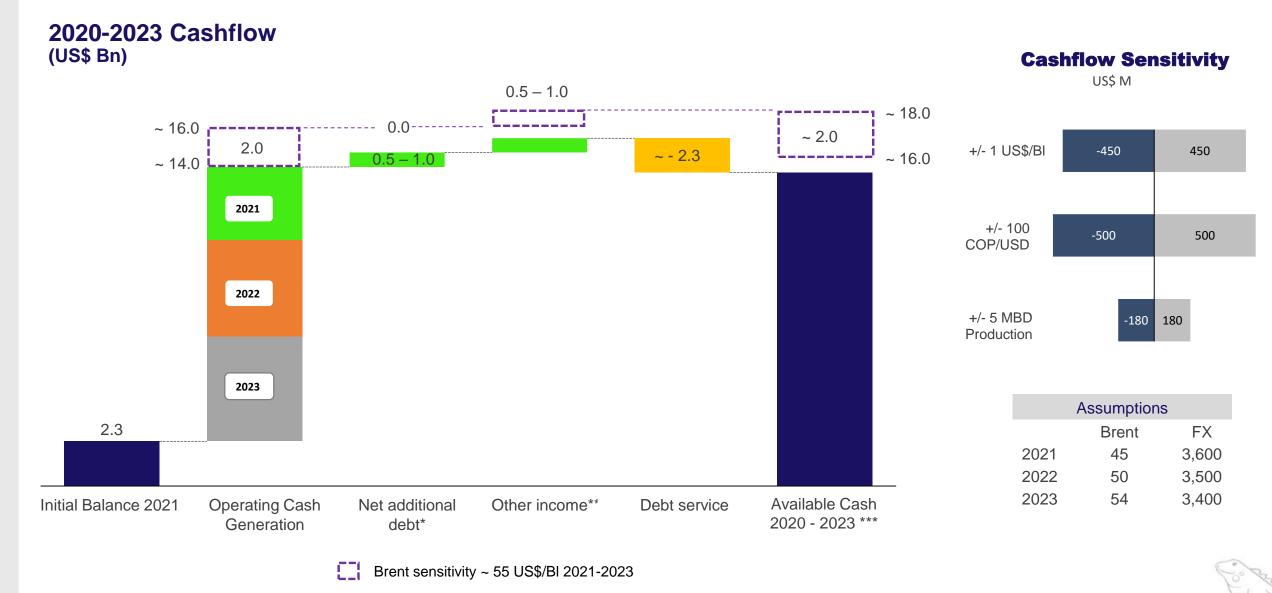




#### Percentage share in production volumes 2021-2023



#### Growing operating cash generation underpins the business plan



#### We increased our TESG ambitions

Award **SOLAR PARKS 45 MW** 

**Adopt** SCM World Economic Forum

**VARIABLE COMPENSATION** linked to **TESG** targets



Launch **TESG STRATEGY** 



**RENEWABLE ENERGY** 400 MW portfolio



**CUMULATIVE EMISSION REDUCTION** of 3.0 MtCO2e

20% CO2e reduction by 2030



Join World Bank initiative of "Zero Routine Flaring by 2030" **2021 - 2023 INVESTMENTS** 

**DECARBONIZATION** 

~600

**WATER** 

**120 - 130** 

DIGITAL STRATEGY

US\$ M

**100 – 150** 

**FUELS QUALITY** 

US\$ M

70 - 80

**INNOVATION AND TECHNOLOGY** 

Benefits of US\$ 39 M in 2020

#### **Strategic Alliances:** iNNpulsa, Ecopetrol &

Microsoft Plug and Play MinCiencias

REPORTING AND **DISCLOSURE** 







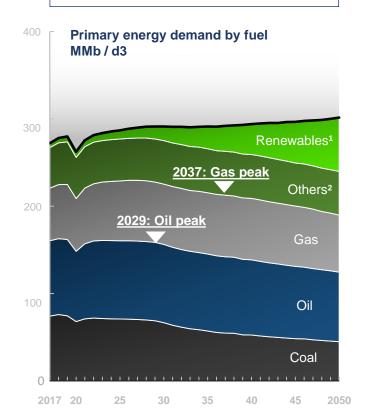




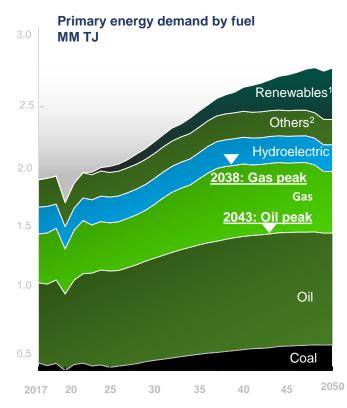


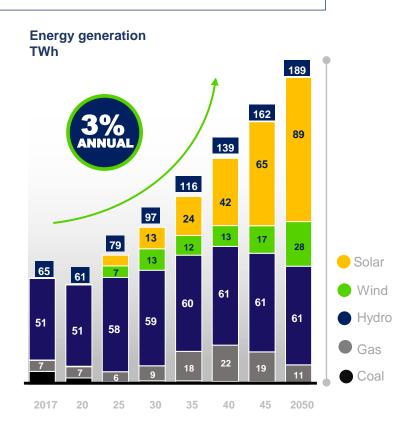
#### The energy transition comes with challenges and opportunities





#### **Colombia** View





1 Renewables includes wind and solar; 2 Others include biomass, hydroelectric and nuclear; 3 Conversion is an approximation: 1 mmTJ is 0.467 MMb / d Source: Ecopetrol based on Mckinsey Energy Insights, October 2020.











#### **Ecopetrol defined 4 axes to respond to energy transition**









#### **O&G PORTFOLIO COMPETITIVE DEVELOPMENT**

#### 1<sup>st</sup> Horizon

#### Early 2020s

Increase resilience of core portfolio and diversify to existing businesses resilient to energy transition

- ISA / Transmission
- Gas Strategy
- Renewable self-supply
- Decarbonization agenda

#### 2<sup>nd</sup> Horizon

#### Late 2020s

Capture business opportunities in emerging value pools

- Renewable
- Green hydrogen
- Carbon capture
- · Nature-based solutions

#### 3<sup>rd</sup> Horizon

#### Post 2030

Businesses in emerging technologies

- Energy services
- Advanced materials

## ISA is a profitable, unique, regional energy infrastructure platform with attractive growth prospects

#### **ENERGY TRANSITION**



#### IMPROVES RISK PROFILE



Strategic position in the energy value chain



Potential growth in EBITDA CAGR: 15% 2014-2019



Regulated and long term concession revenues provide stable and predictable cash flow



Transmission grid will play a key role in the future: provide system stability, connect with new renewable sources



Attractive growth prospects in power transmission and road concession businesses



Better resiliency to oil price volatility





Presence in markets with stable regulatory framework



Materiality: ISA EBITDA represents ~27%\* of GE EBITDA as of 3Q20



Transmission has similar characteristics to Ecopetrol Group midstream assets



Scale vs oppotunities in renewables in Colombia

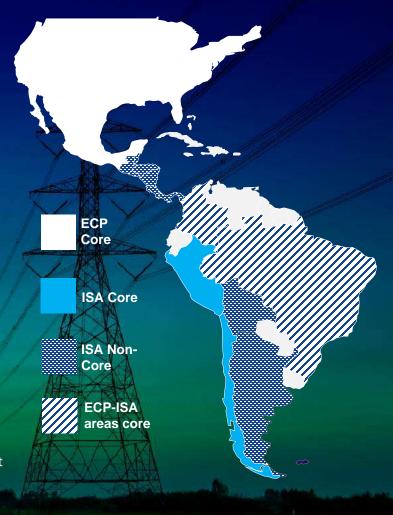
Low emission business



Attractive combined ROACE (ECP + ISA)



Diversified infrastructure platform by country and asset class



#### Financial structure creates value and leverages stability

#### **PROFORMA** Post transaction Gross Debt/EBITDA\*\*\* (times) 2.8 2.5 Float: ~US\$ 2.7 B → ~US\$ 5.4 B (improves 2.4 2.0 2020 2021 2022 2023 **Credit Positive/Neutral** Investors looking for higher returns Rating agencies given low interest rates environment ~US\$ 1.5 - 2.5 B ~US\$ 1.0 - 2.5 B ~25 bps spread compression vs Treasures (10Y) since NBO announcement

2020: largest equity issuance on

record ~US\$ 530 B\*\*

New sources of capital

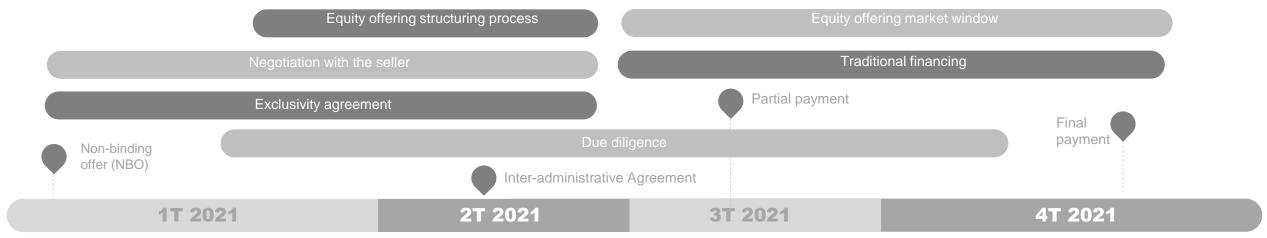
Accretive\*

EPS: Incremental 2021+

liquidity and stock support)

Market liquidity

<sup>\*\*\*</sup> Gross Debt /EBITDA assumption: Brent price 50 US\$/BI in 2021 and US\$ 1.7 B debt. ASSUMPTIONS MAY VARY SIGNIFICANTLY VS FINAL CONDITIONS OF THE POTENTIAL TRANSACTION.

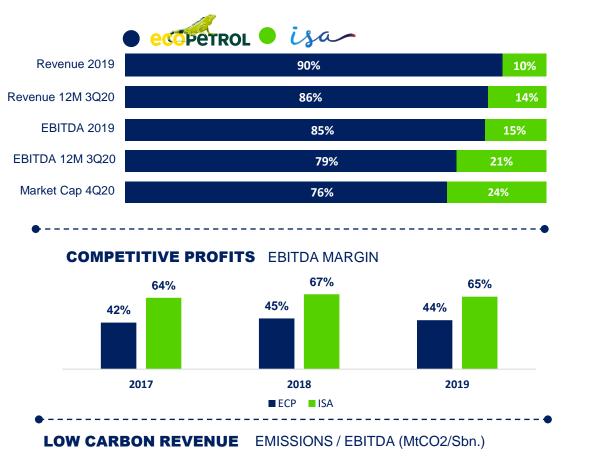


<sup>\*</sup> Under current market conditions - Projections assume business performance "as is"

<sup>\*\*</sup> Source: Dealogic.

#### A more robust GE with greater capacity to generate value

#### **SCALE AND MATERIALITY** CONTRIBUTION ANALYSIS





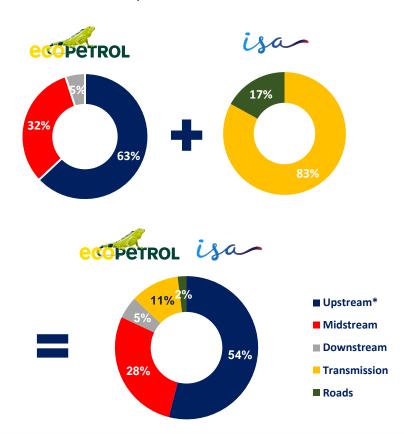
isa

ecopetrol

1.61 + 0.02 = 1.3

#### STABLE CASH FLOWS ARE INCORPORATED WITHOUT REDUCING EXPOSURE TO BRENT

**EBITDA** per Line of Business



\*In 2019  $^{\circ}$ 9% of EBITDA is attributable to gas. In 2020 this percentage rises to  $^{\circ}$ 31%. Source: Ecopetrol calculations based on public information as of Dec/2019.