



# LEGAL DISCLOSURE

This document was prepared by Ecopetrol S.A. (the "Company" or "Ecopetrol") with the purpose of providing the market and interested parties certain financial and other information of the Company.

This document may include strategy discussions and forward-looking statements regarding the probable development of Ecopetrol's business. Said projections and statements include references to estimates or expectations of the Company regarding its future and operational results. Potential investors and the market in general should be aware that the information provided herein does not constitute any guarantee of its performance, risks or uncertainties that may occur or materialize. Actual results may fluctuate and differ from those provided herein due to several factors outside of the control of the Company. Such forward-looking statements speak only as at the date in which they are made and neither Ecopetrol nor its advisors, officers, employees, directors or agents, make any representation nor shall assume any responsibility in the event actual performance of the Company differs from what is provided herein. Moreover, Ecopetrol, its advisors, officers, employees, directors or agents shall not have any obligation whatsoever to update, correct, amend or adjust this presentation based on new information or events occurring after its disclosure. Additional factors that may affect the future results of Ecopetrol are set forth in the section entitled "Risk Factors" in the Company's Report on Form 20-F for the year ended December 31, 2019 and in the Company's other filings with Securities and Exchange Commission (the "SEC"), which are available at www.sec.gov.

This presentation is for discussion purposes only and is incomplete without reference to, and should be viewed solely in conjunction with, the oral briefing provided by Ecopetrol. Neither this presentation nor any of its contents may be used for any other purpose without the prior written consent of Ecopetrol.

The information contained in this earnings report relating to operational information, financial information and/or statistical data pertaining to companies or institutions that might be considered peer group companies to Ecopetrol has been obtained from public sources available to the general public and is being used solely for informative and statistical purposes. We have not independently verified any such operational information, financial information and/or statistical data, although we believe such operational information, financial information and/or statistical data has been obtained from reliable sources. Ecopetrol S.A. is not liable and does not assume any responsibility for the accuracy, veracity or authenticity of any such operational information, financial information and/or statistical data.

# **OUR SPEAKERS**







#### Safety in our operations

- Designed and implemented action plan prioritising the commitment to safety in our operations
- + COP 88 B in social invesment commitments to humanitarian aid to support the pandemic
- New Cultural Declaration launched
- Innovation and technology in our core
  - + 5,000 average daily recurring connections
  - + 8,000 daily virtual meetings

#### **Profitable growth**

- Focus on reserves protection
- Strengthened our gas strategy
  - o EBITDA Margin in excess of 50% in 2020
  - Shell –strategic partner in the Colombian Offshore
- Progress in unconventional reservoirs
  - Awarded Kalé, first CEPI Project
  - Permian contributed 5.2 mboed in 2020
- Intensified focus on cost efficiency
  - o Savings of ~ COP 0.7 T in 2020

#### **TESG**

- Updated renewable energy's capacity target to 400 MW by 2023
- Started construction of 59 MW San Fernando Solar Park-
- Delivered cleaner fuels, gasoline with <50 ppm</li>
- Increased alliances for Digital Transformation

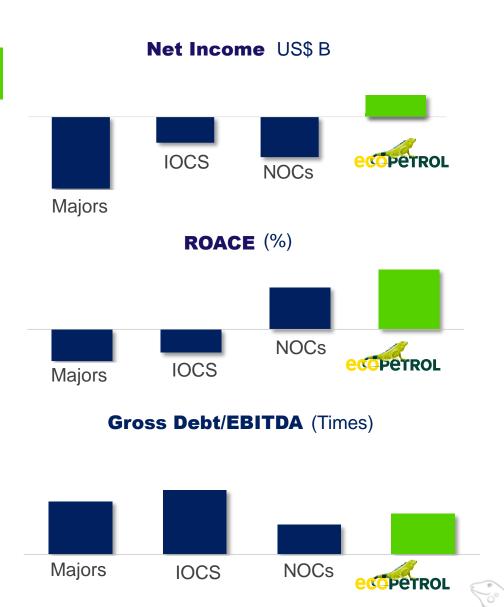






# **Ecopetrol continues to deliver superior results**

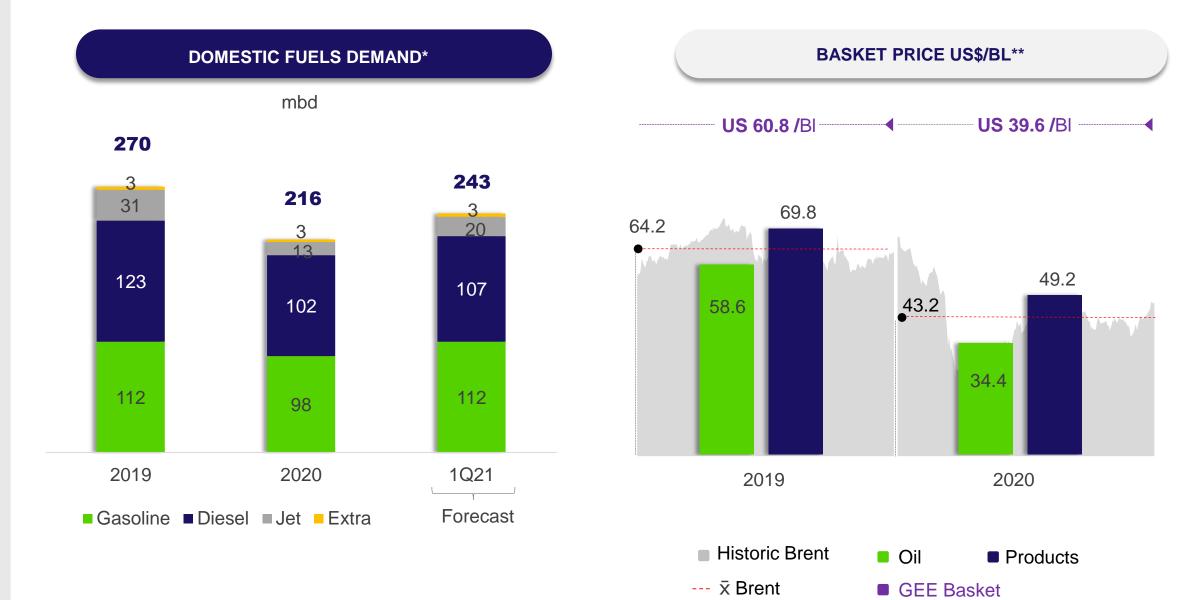
METRICS	2020 TARGET	2020 REAL
Capex (US\$ M)	US\$2,500 - US\$3,000	US\$2,674
Operating cash flow generation	~US\$ 1,900 M	US \$ 2,500
Cash breakeven*	< US\$30 /BI	US\$ 32.7 /BI
Gross debt/EBITDA	<3.5x	2.8x
Production (mboed)	~700	697
Throughput (mbd)	300-320	320
Exploratory wells	17	18
Transported volume (mbd)	~1,000	1,017



Majors: Exxon, Total, Shell, Chevron, BP. IOCs: Hess, Repsol, ConocoPhillips. NOCs: Equinor, PTTEP, ENI

<sup>\*</sup> Calculated as the Brent price variation that results in a minimum year end cash balance, as defined by Ecopetrol after operating cash generation, capex, dividends and financing.

# We faced an unprecedented price and demand contraction





# Reliable operations that adapted to circumstances

# **Exploration**

# WELLS 18 drilled in 2020 vs. target of 17

INCREASE OF

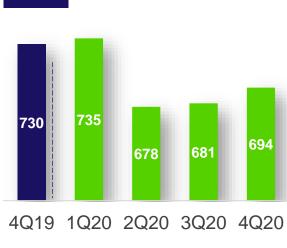
47%

in cumulative production vs. 2019

RESERVES
42 mmboe

Andina field y Esox
(Gulf of Mexico)

# **Production**

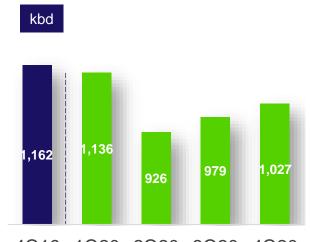


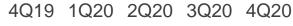
mboed



EBITDA Margin >50% in 2020 17% of annual production

#### **Midstream**

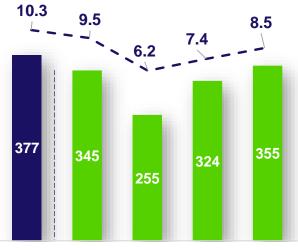






# **Downstream**



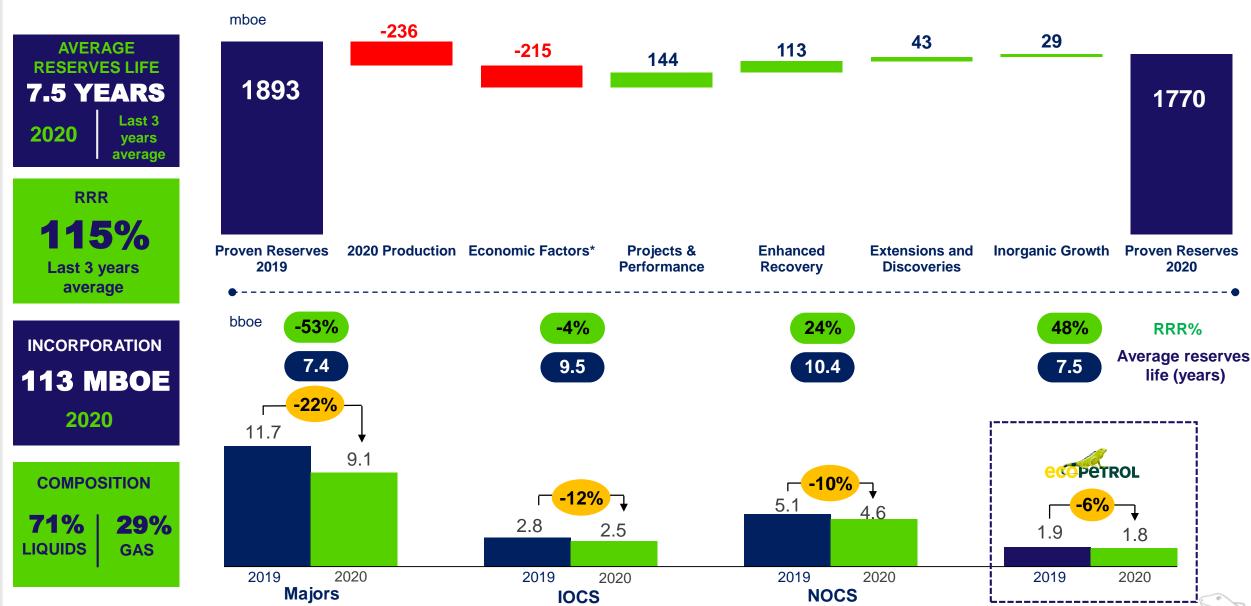


4Q19 1Q20 2Q20 3Q20 4Q20





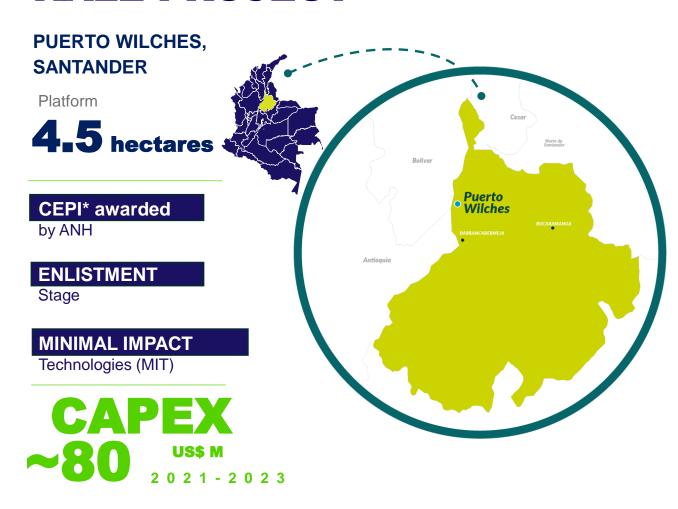
# Increasing resilience of our reserves portfolio



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

# We continue to make progress in unconventional reservoirs

# **KALÉ PROJECT**



## **PERMIAN**



# Competitive costs adjusted to activity level

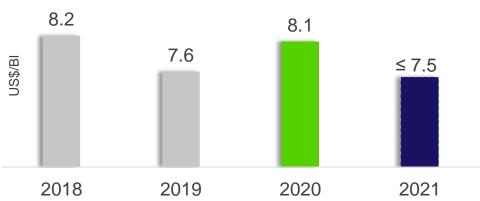




#### **Transportation cost per barrel**

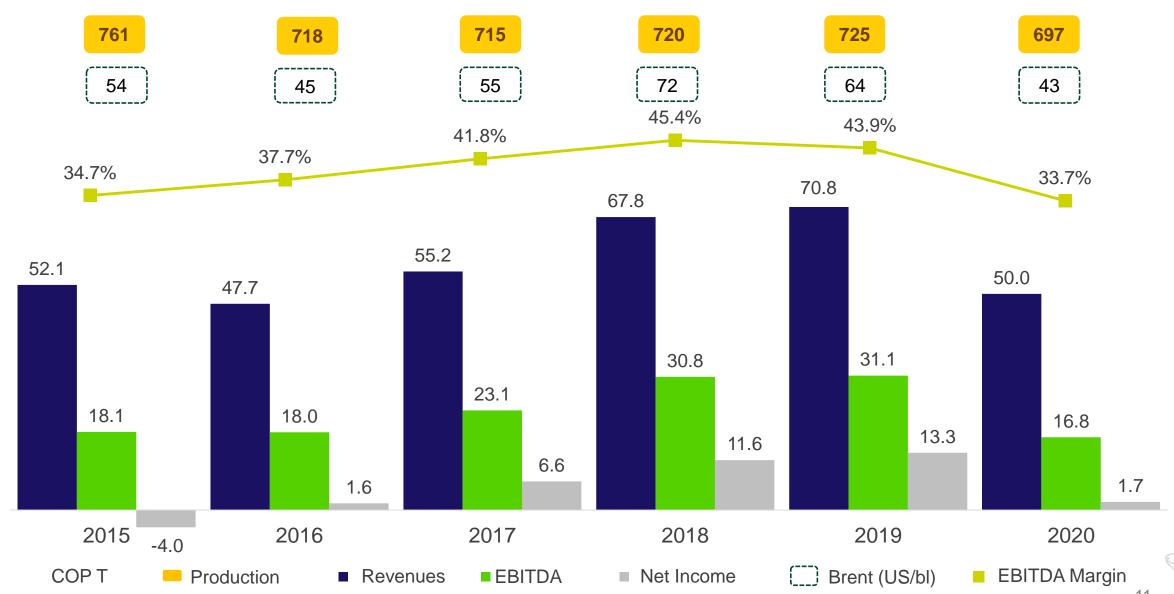


#### **Downstream total unit cost**

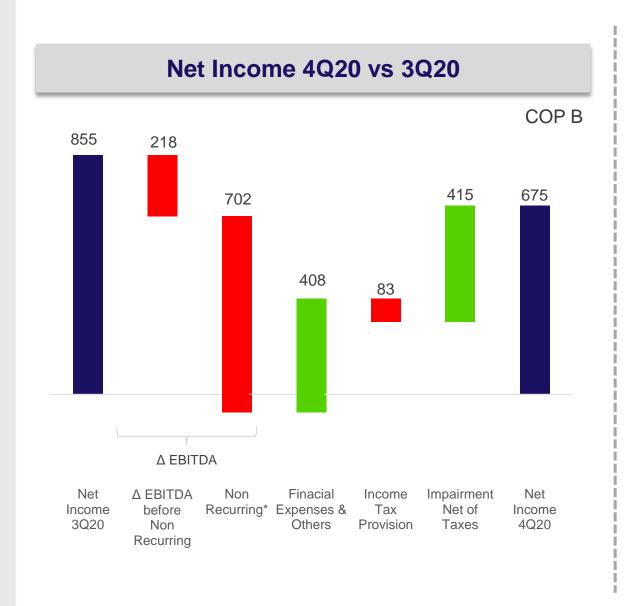


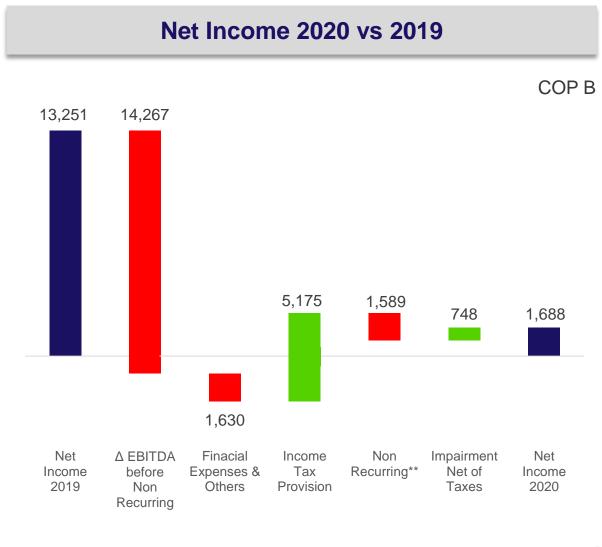


# Proven resilience amidst challenging conditions



# Fourth quarter results are rising, net of non-recurring events

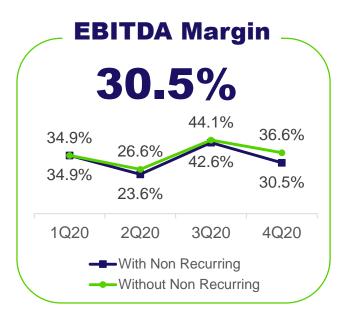


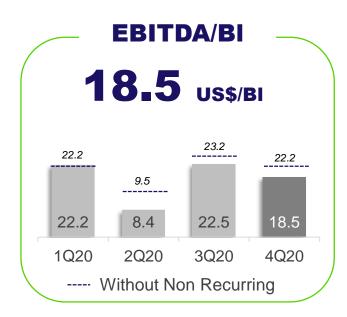


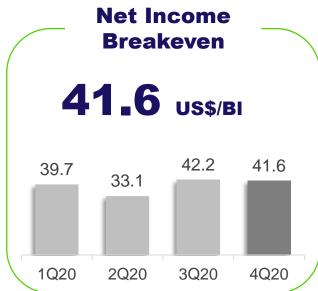
<sup>\*</sup> Non-Recurring (after taxes) includes: Exploration Expenses (COP -312 B), Assets Write Downs (COP -208 B), Labor Expenses (COP -130 B); Others (COP 52 B).

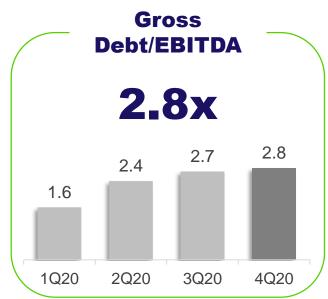
<sup>\*\*</sup> Non-Recurring (after taxes) includes: Deferred Tax USA 2019 (COP -1,544 B), Invercolsa 2019 (COP -1,049 B), Guajira Asset and Bioenergy (COP 1,004 B).

## Solid financial indicators after the crisis



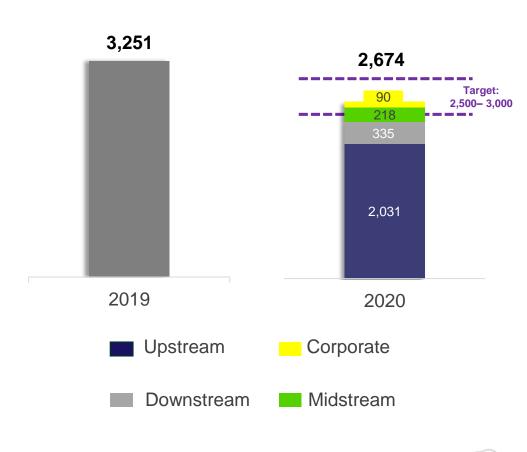




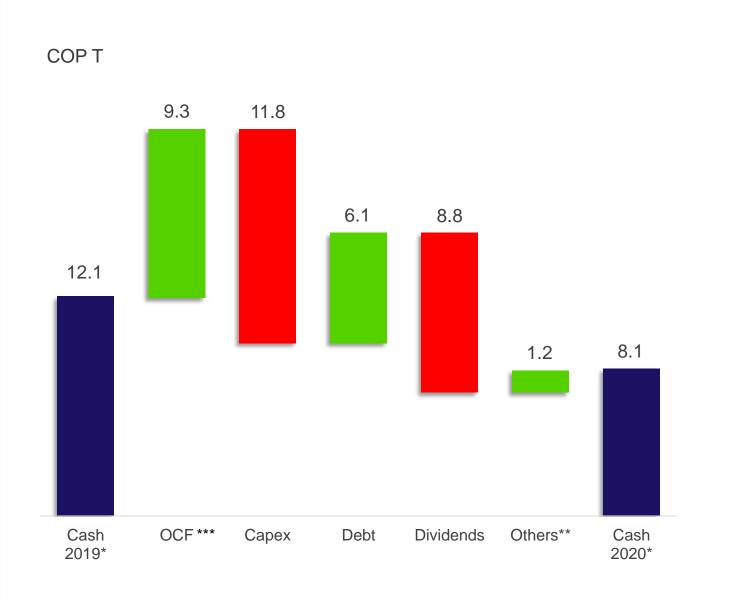


# Organic investment within the target

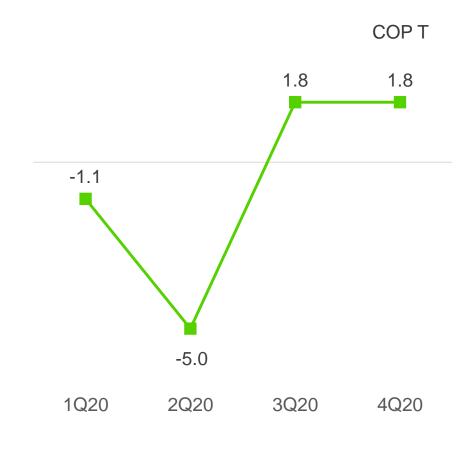
US\$ M



# Robust cash position with stable trend



# Changing trend in Free Cash Flow







# Organic plan responds to market conditions and maintains value proposition

#### **METRICS**

2021

2021-2023



**EBITDA Margin** 



Increases competitiveness





Cement energy



transition



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

Production (mboed) Exploratory wells Transported Volume (mbd)

Throughput (mbd)

**Decarbonization** 

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

US\$ 3,500 - 4,000 M US\$ 12,000 - 15,000 M US\$ 3,500 - 5,000 M US\$ 14,000 - 16,000 M 35% - 38% < 2.5x~700-710 ~700 - 750 ~40

>1,000

**Innovation and Technology** Investment

~340 - 365

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

Social and environmental Investment

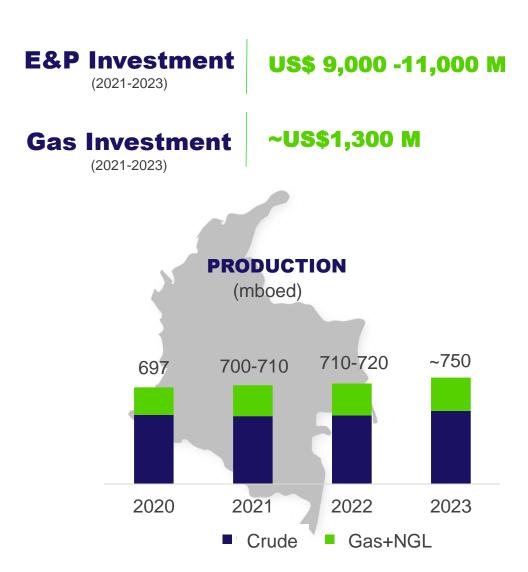
~340 - 420

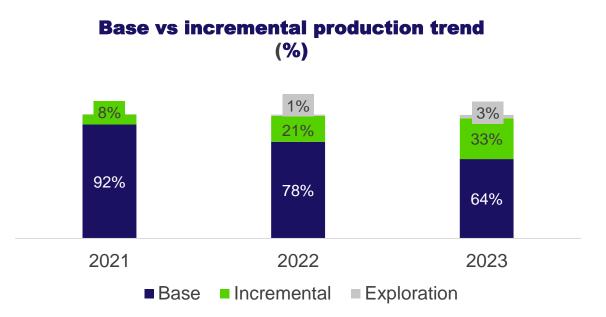
**COP\$ 1.7 B** by 2024

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

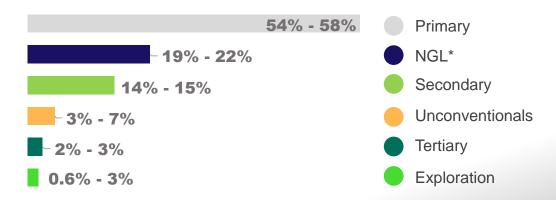


# Focus on growth and addition of production and reserves competitive at ≤ US\$ 45 - 50/bl

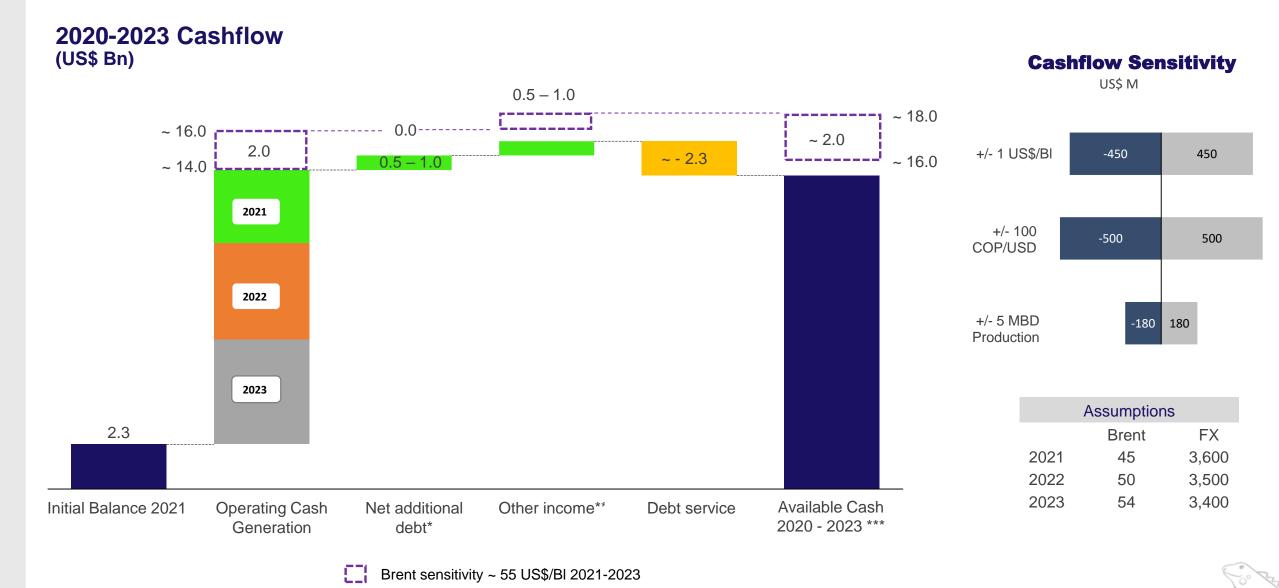




#### Percentage share in production volumes 2021-2023



# 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



**2037: Gas peak** 

Renewables<sup>1</sup>

Others<sup>2</sup>

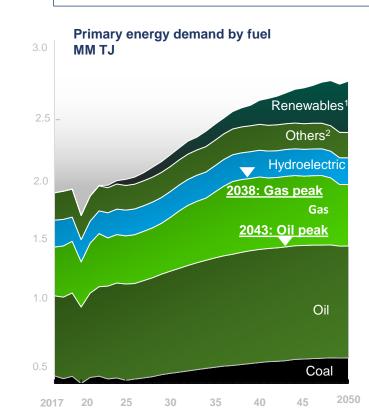
Oil

Coal

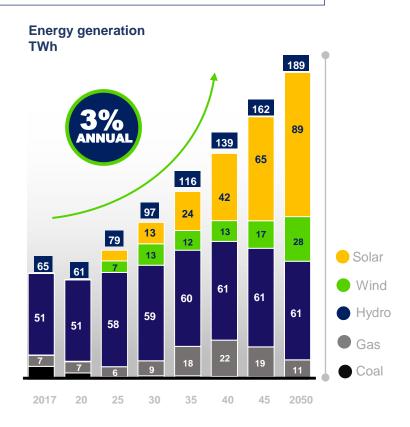
Primary energy demand by fuel

2029: Oil peak

MMb/d3



#### **Colombia** View



<sup>1</sup> 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**

#### **GROWTH**

# 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



Low emission business



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



Transmission has similar characteristics to Ecopetrol Group midstream assets



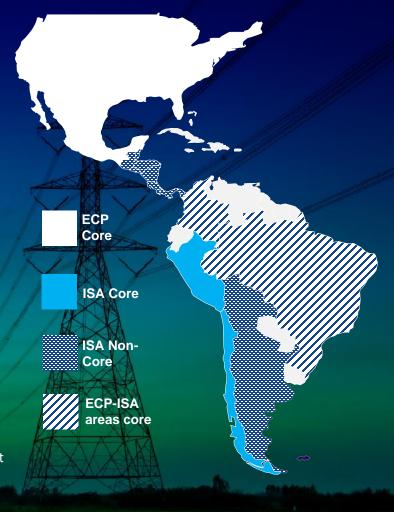
Scale vs oppotunities in renewables in Colombia



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 2.4 2.0 2020 2021 2022 2023 **Credit Positive/Neutral** 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

Float: ~US\$ 2.7 B → ~US\$ 5.4 B (improves

record ~US\$ 530 B\*\*

New sources of capital

2020: largest equity issuance on

Investors looking for higher returns

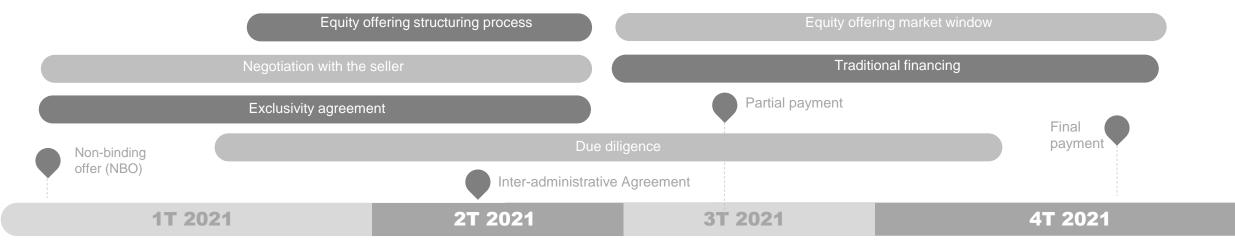
Accretive\*

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.

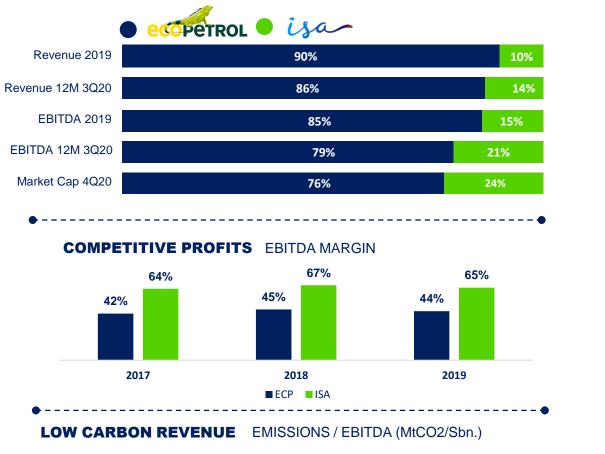


<sup>\*</sup> Under current market conditions - Projections assume business performance "as is"

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

# A more robust GE with greater capacity to generate value

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





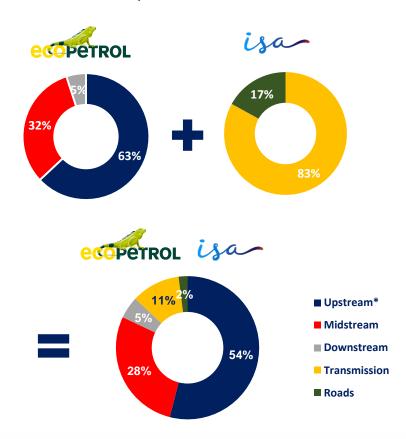
isa



1.61 + 0.02 =

# STABLE CASH FLOWS ARE INCORPORATED WITHOUT REDUCING EXPOSURE TO BRENT

**EBITDA** per Line of Business



<sup>\*</sup>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.

# In summary

 2020 Results demonstrate resiliency and competitiveness

#### 21-23 ORGANIC PLAN:

- EBITDA, production and reserves growth
- ~US\$ 4-5 B/Year investments, self-funded
- ♦ Higher prices provide upside vs US\$ 45-50 /BI Plan

# ISA: TRANSFORMATIONAL OPPORTUNITY

Energy transition, growth, improved risk profile





# **Q&A PARTICIPANTS**



Felipe Bayón CEO



**Alberto Consuegra** COO



Jorge Osorio
VP of Development and
Production



Walter Fabian Canova
VP of Refining and Industrial
Processes



Juan Manuel Rojas
VP of Corporate Strategy
and New Ventures



**Jaime Caballero Uribe** CFO



Jorge Calvache
VP of Exploration



Milena López
Strategy and Finance VPCenit



**Pedro Manrique**Commercial and Marketing VP



**Fernan Bejarano** Legal VP





# **GLOSSARY**

Acronym	Definition
BI	Barrel
Bn	Thousand of million
bped	Barrels of oil equivalent per day
COP	Colombian pesos
ESG	Environmental, Social and Governance
GEE	Business Group
JV	Joint Venture
kbd	Thousand of barrels per day
kbped	Thousand of barrels of oil equivalent per day
KTON	Thousand of tons
Mbtu	Million de BTU
mmbd	Million barrels per day
mmbl	Million barrels
MtCO2e	Million Metric tons of Carbon Dioxide equivalent
ROACE	Return on Average Capital Employed: Operating income after tax / Capital Employed. Calculated in pesos
Tn	Million of million
USD	US dollar
USD Bn	Billion US dollar
USD M	Million US dollar