# The rise of independent oil companies in Brazil

Warm-up OTC 2024: Brazil Beyond the Pre-Salt

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Brazil plays a relevant role in the Global O&G Industry



The largest economy in Latin

America

9th
Largest economy in the world

(Austin Rating)

3rd largest
recipient of Foreign
Direct Investment
in 2022
(85 billion USD OCDE)



9th

Largest **Crude Oil and Condensate**producer
(BP Statistical Review 2022)



8th

Largest **Oil Products Consumer**(BP Statistical Review 2022)

4<sup>th</sup> Largest
automotive fuel
market in the World

A domestic market of over 203 million inhabitants

Among the 10 largest crude oil exporters in the world

9th

Largest Refinery
Capacity
(BP Statistical Review 2022)
But still need to import diesel, gasoline, jet fuel and LPG



**8**h

In sales of petrochemicals worldwide (Statista - 2022)

#### **About ANP**



ANP is the
Brazilian oil,
natural gas and
biofuels
regulator



ANP is an **independent regulatory agency**: board of 5 directors with fixed, staggered terms; mandatory RIAs, public hearings and consultations; administrative autonomy, etc. The government cannot overrule ANP technical decisions.



Regulate

Establish the regulation of the oil, natural gas and biofuels industry. ANP must assure free competition, national supply, and consumers protection in terms of price, quality and product offer.



**Contract** 

Grant authorizations for the O&G and biofuels activities; to promote E&P bidding rounds and sign contracts on behalf of the Federal Estate.



Inspect

Enforce the standards and rules by the regulated industry. It covers the administrative process, judgment and sanction.

### The opening of the O&G sector





#### E&P

Companies other than Petrobras are responsible for

35%

Of total O&G production (Feb/24)

Companies other than Petrobras operate<sup>1</sup>...

66%

of the fields

**85%** 

of the exploratory blocks

<sup>1</sup>As of April/24



#### **Downstream**

Companies other than Petrobras are responsible for

20%

of the refining capacity (2023)

61%

of the fuels imports (gasoline + diesel - 2023)

100%

of the fuel distribution and retail



#### Gas

Companies other than Petrobras are responsible for

22%

Of total natural gas sales volume to distribution companies and final consumers – 2023)

 $3_{\rm of}5$ 

Gas pipeline Operators without Petrobras participation

100%

Gas Distributors



### Brazil is taking a leading role in the E&P sector





**Production:** 

3.4

Million bpd of oil production (Feb 2024)

148

Million m<sup>3</sup>/d of gas production (Feb 2024)

**Reserves:** 

15.9<sub>B</sub>

Bbl in proved oil reserves (Dec 2023)

517<sub>B</sub>

m³ in proved gas reserves (Dec 2023)

90B

**USD** investments forecast (2023-2027)

#### **Forecast**



2025

Potential to reach a production of more than

Million bpd of oil

Million m<sup>3</sup> of gas

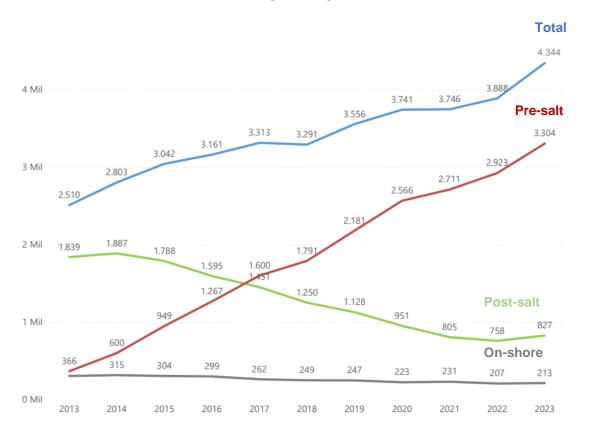




#### Three different E&P environment

Pre-salt production will continue to increase

### O&G offshore production in Brazil (boe/d)





### **Pre-salt**

Home to the largest offshore oil discoveries in the last decade. Poised to keep growing.

**76%** of total O&G production

**148** wells in production



## Post-Salt Offshore

All the offshore area besides the pre-salt region, including new frontier areas and a significant number of large mature fields

20% of total O&G production

**385** wells in production



### **Onshore**

Mature fields and New Frontier Basins (mostly gas prone)

**5%** of total O&G production

**5,972** wells in production

### **E&P** strategic goals





RIGHT ASSETS IN THE RIGHT HANDS



INCREASE RECOVERY FACTOR



INCREASE EXPLORATORY ACTIVITIES



MAKE MARGINAL DISCOVERIES VIABLE

We need to keep increasing above ground competitiveness in order to achieve our main goals





#### **DONE**, among other measures:



Petrobras divestment plan



Free seismic and well data



#### **Royalties reduction**

\*Over incremental production, for small and medium companies, and for new mature and new frontier basins contracts



Local content reduction and flexibilization



## Minimum exploratory program flexibilization

Work programs commited by companies in the bidding rounds for specifc blocks may be carried out in other blocks

Regulatory impact analisys is done. A draft regulation is underway to be suject to public consultation

#### IN THE PIPELINE



## Fixed signing bonuses for onshore blocks

With few exceptions, onshore exploratory blocks may have a fixed minimum signing bonus from next open acreage cycle



### E&P contracts extension

More than 100 requests already granted

### Further incentives for marginal fields

ANP has already appoved a definition of marginal fields

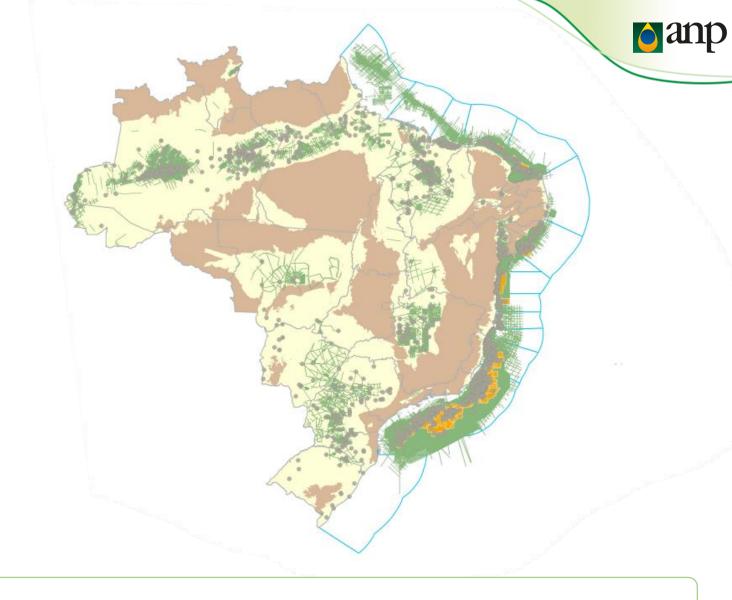


#### **Available online**

All onshore post-stack, well data, nonseismic data and geochemical data (registration is optional)



https://reate.cprm.gov.br/anp/



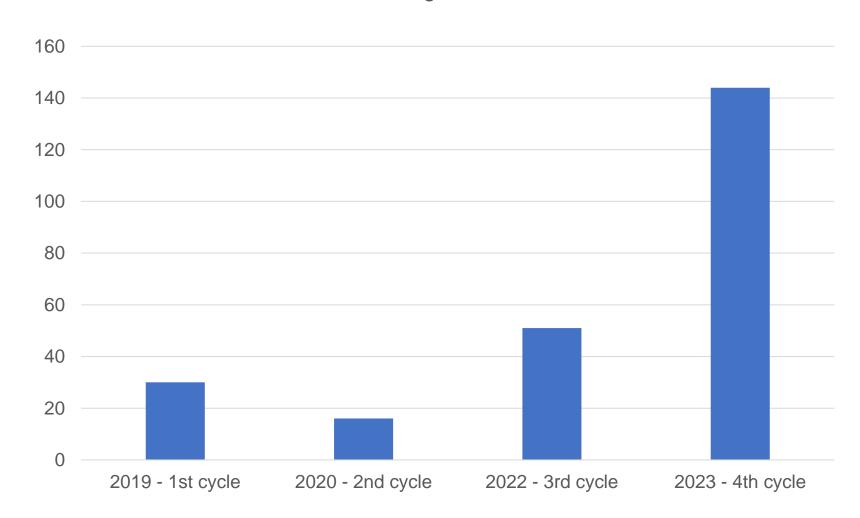
#### **Available by request**

All onshore pre-stack and select offshore pre-stack, post-stack and well data can be coppied to a hard disk provided by companies that send a request to <a href="mailto:helpdesk@anp.gov.br">helpdesk@anp.gov.br</a>



### Interest in bidding rounds has grown

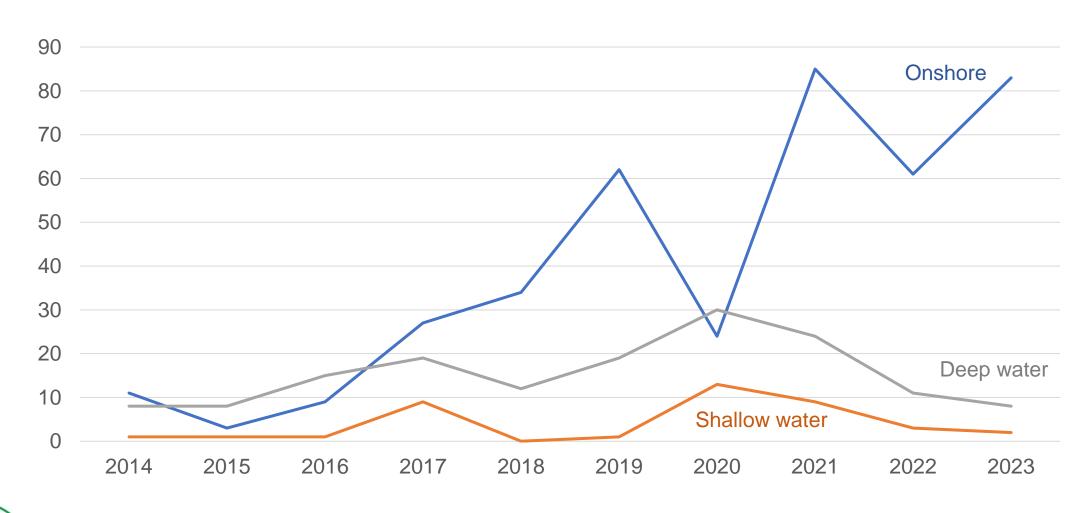
### Onshore and shallow water exploratory blocks auctioned in bidding rounds







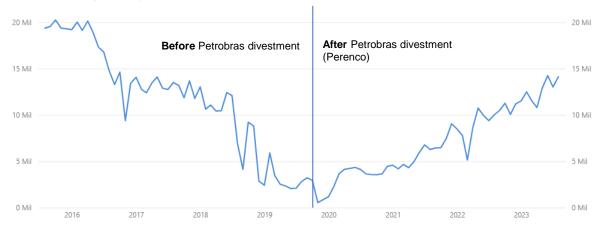
### Farm-ins (including Petrobras divestment)



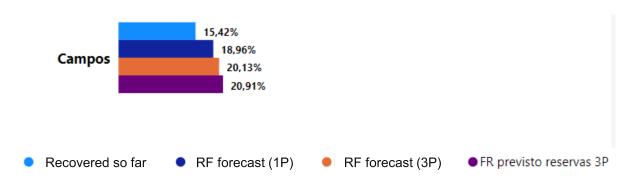


### Investment is revamping mature offshore post-salt fields

### Pargo, Vermelho e Carapeba: **380% of production growth** since farm-in (boe/d)

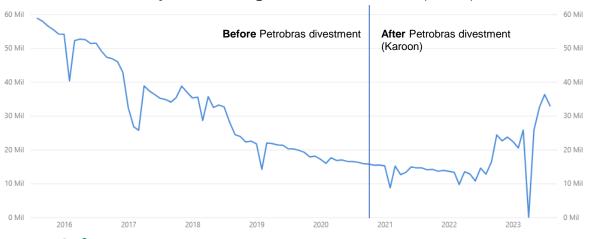


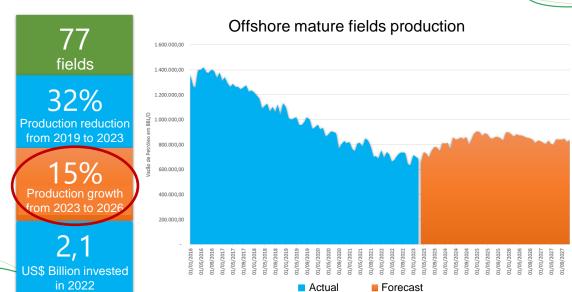
#### **Opportunity to increase RF in Campos Basin**





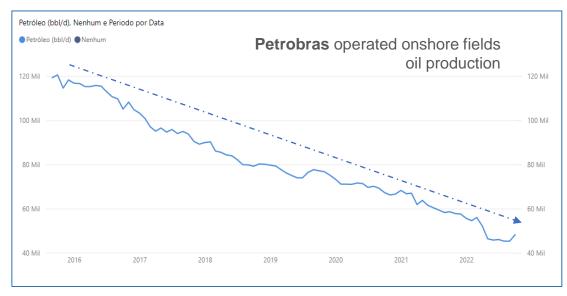
#### Baúna: 113% of production growth since farm-in (boe/d)

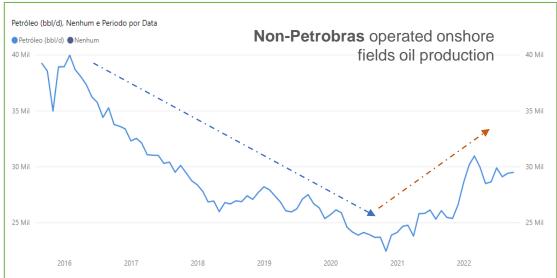


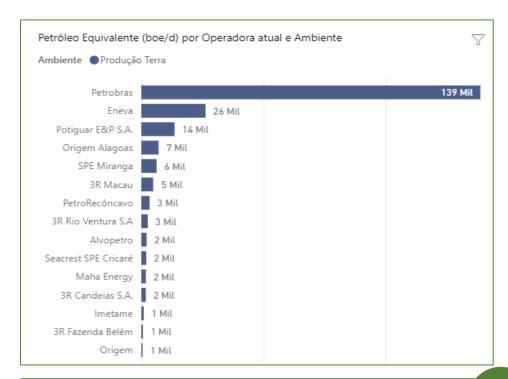








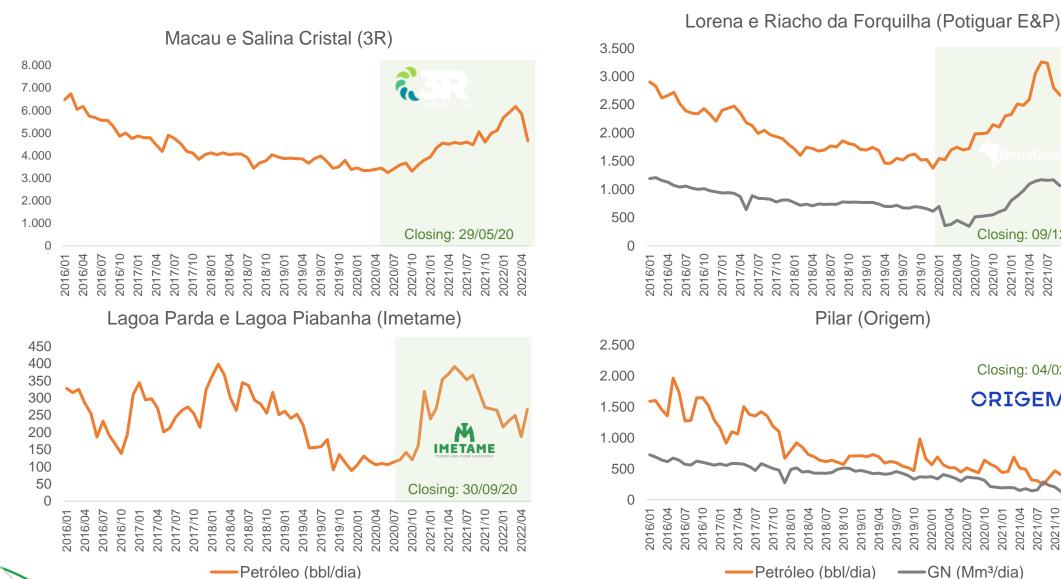


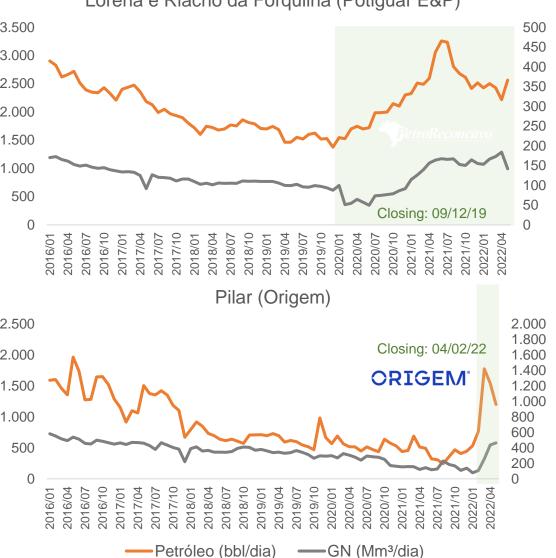


In 2021 and 2022, non-Petrobras operators drilled 73 onshore wells, whilst Petrobras drilled 37 onshore wells.





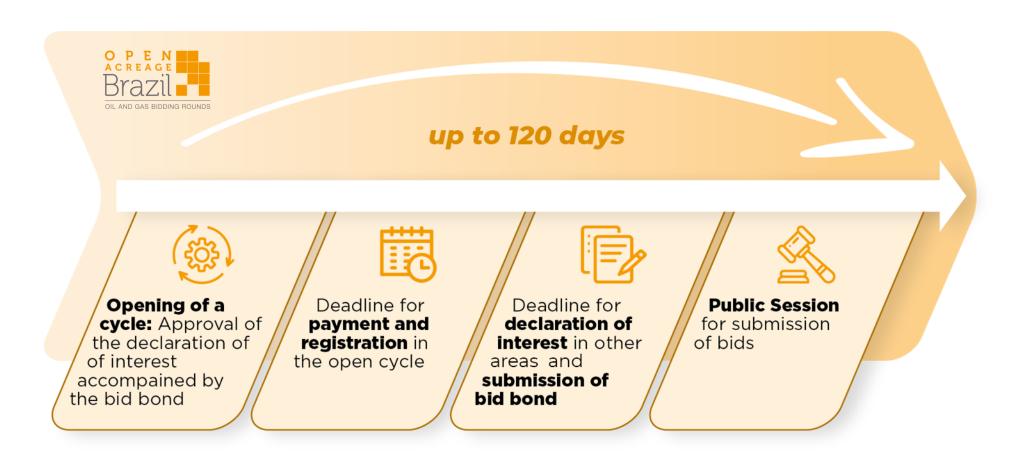






### Opportunities in the Open Acreage

The Open Acreage allows the market to decide when bidding rounds will take place and what areas from the stock will be offered.



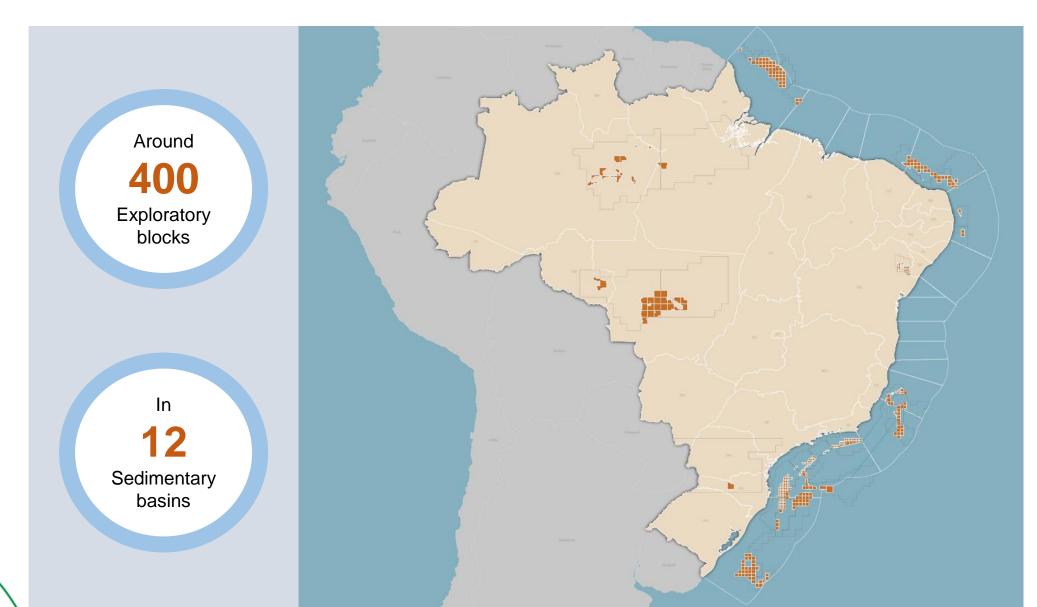
The schedules of the Open Acreage cycles will begin with the approval of a declaration of interest submitted by a registered bidder accompanied by a bid guarantee.

Tender protocol is currently under revision and a new version is expected to be published early next year



### 5th cycle of concession regime open acreage

Tender protocol for next cycle is expected to be published at the beginning of next year

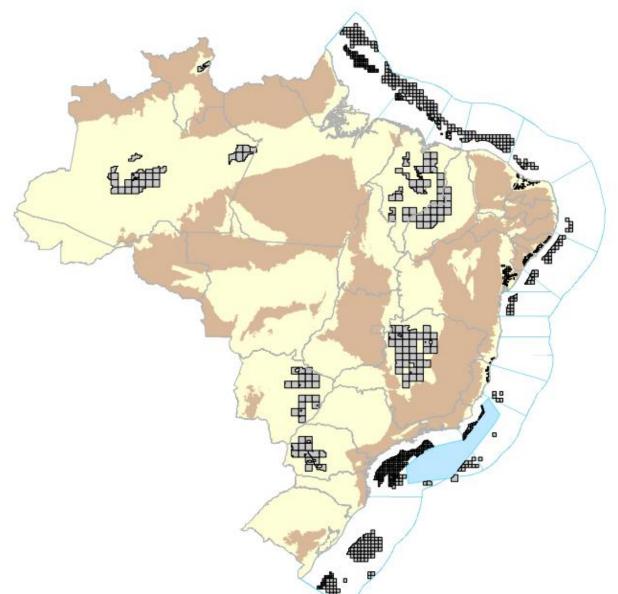




anp

Any company can nominate new blocks to be studied under a fast-track scheme

Blocks
Under
Study to
be added
in the
future



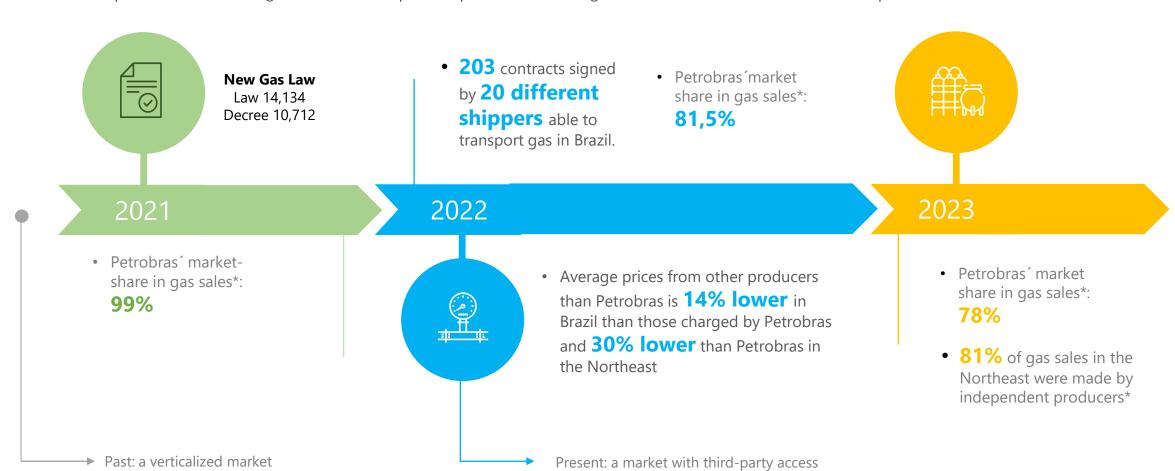
1521
Exploratory blocks under study

In
23
Sedimentary basins



### Brazil is also moving towards a competitive gas market

After new gas law, access to transport has been effective and enabled the entry of new suppliers in the commercialization market New transport contracts were signed between independent producers, natural gas distributors/free consumers and transporters



<sup>\*</sup> Non-thermal Petrobras market share in the integrated gas pipeline system



### Brazil in the energy transition

A country of plenty and diverse energy resources and one of the world's leading player in the energy transition Brazil's electricity matrix is one of the cleanest in the world



**49%** 

Share of **primary energy from renewable sources, 2022**World Average – 14%
(MME)



**4**th

Largest share of primary energy from renewables

1<sup>st</sup> – Iceland, 2<sup>nd</sup> Norway, 3<sup>rd</sup> Sweden (Our World in Data)



87%

Share of electricity production from renewables, 2022

World Average – 28% (MME)



2nd

Largest Producer and Consumer of **Biofuels** (BP Statistical Review 2022)



Largest **Hydropower** generation in 2022 (Our World in Data)



Largest Wind Generation Capacity in 2022 (Our World in Data) kgCO2e/boe is the carbon intensity in the presalt

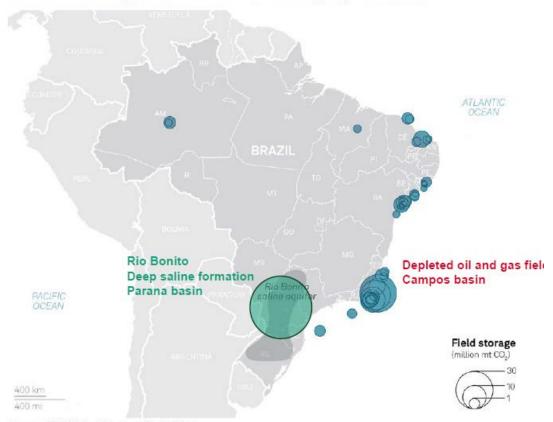
14 kgCO2e/boe is the offshore average in Brazil

Compared to OGCI average – 19 kgCO2e/boe





#### Brazil underground carbon storage potential



Source: S&P Global Commodity Insights

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S&P Global

Commodity Insights Source: S&P Global study developed for OGCI

High level of uncertainty exists on the capacity estimates in the deep saline aquifer in the Rio given the limited information available. Several other deep saline aquifers cam offer similar stora

according to S&P Global (2023)

#### **Brazil has potential to store 2470 MtCO2**.

(i) saline aquifers and depleted O&G fields from Campos Basin and (ii) onshore Paraná are the main reservoirs currently under study.

**BECCS** and renewable energy to feed CCS relevant opportunities that differentiates

Brazil in the international scenario.



### And also for hydrogen





ANP is taking part in the federal program for hydrogen



There is a taskforce for stablishing a national stategy for hydrogen



A number os studies are being undertaken as Congress discusses a hydrogen bill. Legislative proposals have been recently presented by both chambers of Congress. The executive branch is also working on a related bill.







Our Strengths

Sanctity of Contract

Geological potential

Incentives for independent operators

IOR opportunities in mature fields

Market opening in the midstream (New Gas Law) and downstream

One of the largest fuel market

Great potential for renewables and CCS





Official ANP profiles on social midia













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