

# MINISTRY OF MINES AND ENERGY

## Power Sector



Governance



Predictability



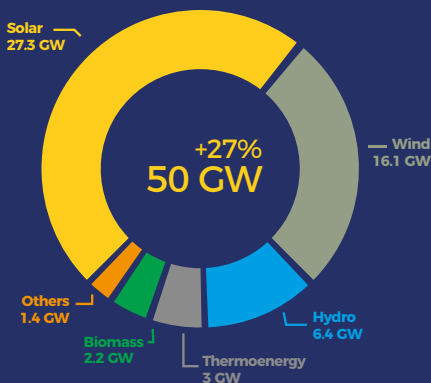
Dialogue



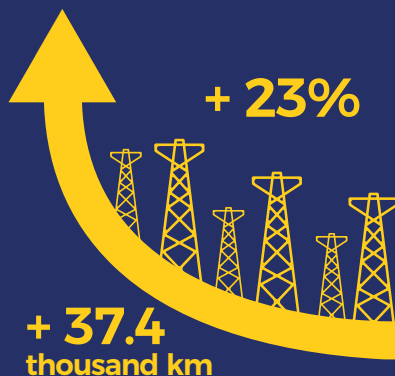
Legal Certainty

### Why invest in the Brazilian Oil, Gas and Biofuels?

#### Energy expansion 2021-2030



#### Transmission Lines Expansion 2021-2030



Energy Matrix World 15%

2021 Brazil 49% **until** 2030 50%

Electricity matrix World 25%

Brazil 84% **until** 2030 85%



### Highlights 2021

- Eletrobras Capitalization
  - Reduce CDE account (US\$ 5,8 Bi)
  - Cost reduction and pollution in a several water basins
- Dilute Tariffs effect
  - Reduce Subsidies
  - Resumption of Angra 3

### Paris Agreement

Brazil will meet non-mandatory targets in renewables by 2025



Electricity matrix 22% - 25%

Energy matrix 45% - 50%

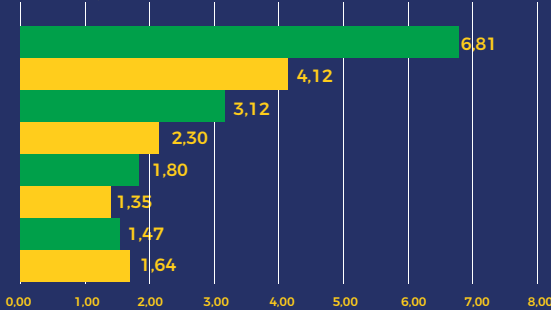




# POWERING THE FUTURE



## Energy consumption per capita



**+1.6% p.y.** # of residencial consumers (2030)

**+1.6% p.y.** Energy demand (2021-2025)

**+1.6% p.y.** Energy demand (2026-2030)

**2021**  
Renewable  
85%



88%

Wind rate



148%

Solar

**2030**  
Renewable  
86%

Energy Sources  
Hydro / Solar / Wind /  
Biomass / Thermo /  
Waste-to-Energy

Isolated Discount  
19.4%  
April 2021

### Generation Expansion Auctions

"A-3" and "A-4"  
June 2021  
Discount 30.8% - 28.8%

"A-5" September 2021  
Capacity Auction  
December 2021

### Transmission Auction

Transmission Lines:  
515km Jun/2021

Expected  
Investment:  
USD 250 Million

48.3 of discount

Auctions in 2019,  
record average  
discount rate of 60%

Auction schedule available at: [www.aneel.gov.br](http://www.aneel.gov.br)

### Angra 3

1.405 MW Average

Construction Progress:  
62.5%

Starting Operation:  
4<sup>th</sup> quarter of 2026

Investment for  
completion: USD 2.9 Bi

### Eletrobras Capitalization

Current  
Market Share  
29% of Generation  
43% of Transmission

97% Clean  
energy

USD 34 Billion  
in Assets

One of the 5 largest  
Hydro plants in the  
world

CESG Business  
Model

[www.eletrobras.gov.br](http://www.eletrobras.gov.br)

Next steps after the edition of MP 1031, on Feb 23<sup>rd</sup>, 2021:

Feasibility Studies  
(Sept/2021)  
BRD Q / 2021

Executive Power  
Court Approval  
(Out/2021)  
4<sup>th</sup> Q/2021

Follow-on  
(1<sup>st</sup> Q/2022)



PPI Qualified Project  
Exchange Rates: USD 1.00 = R\$5.00

ApexBrasil

MINISTRY OF  
MINES AND ENERGY

MINISTRY OF  
FOREIGN AFFAIRS

