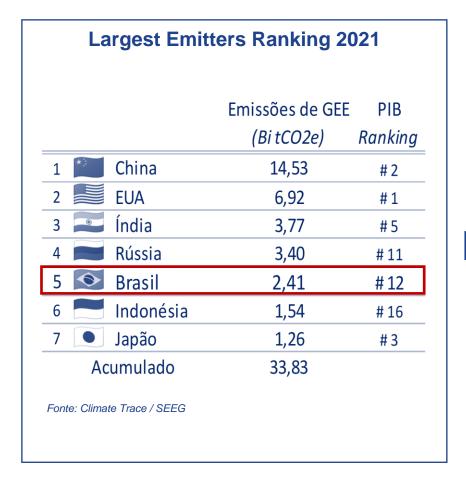




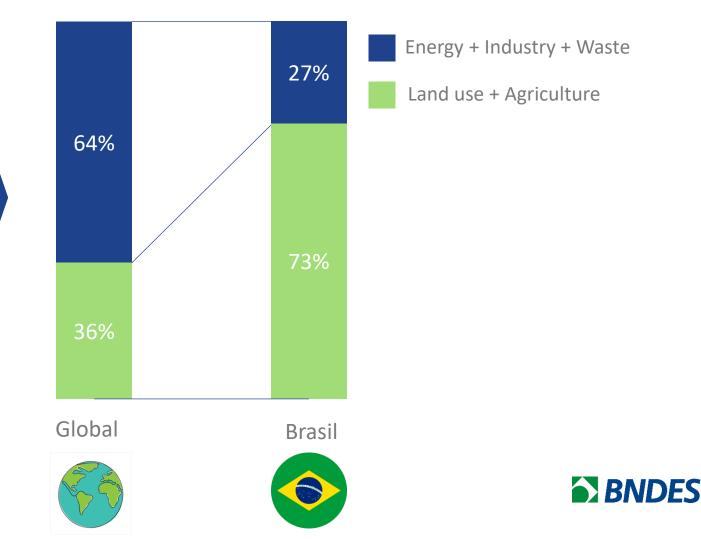
# BNDES and Climate Transition

September 2023

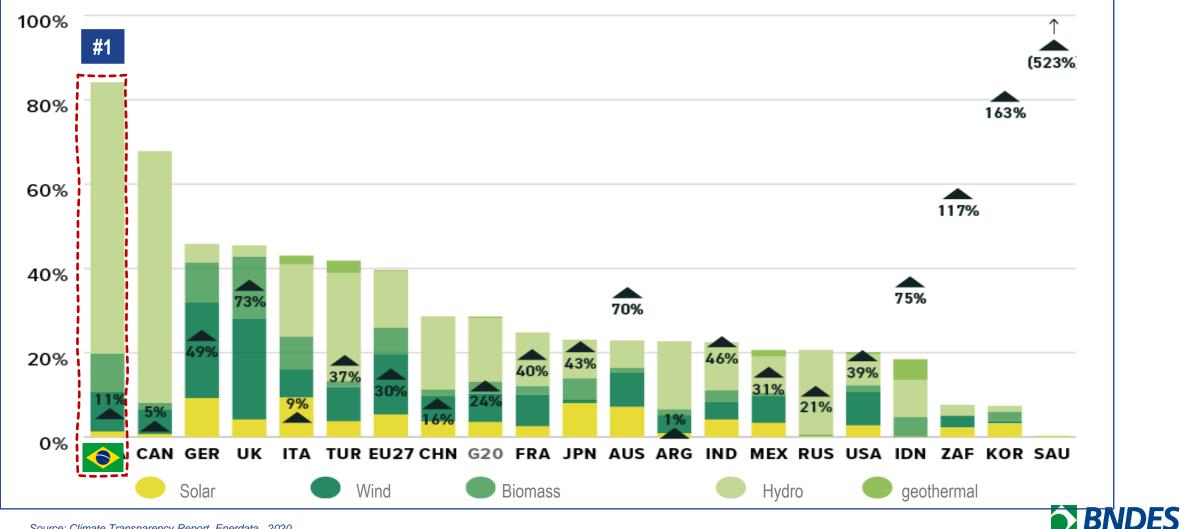
# Brazil is the 5th largest global emitter, but history shows we can lead the transition and be the first to decarbonize



### **Emissions' profile Brazil vs World**

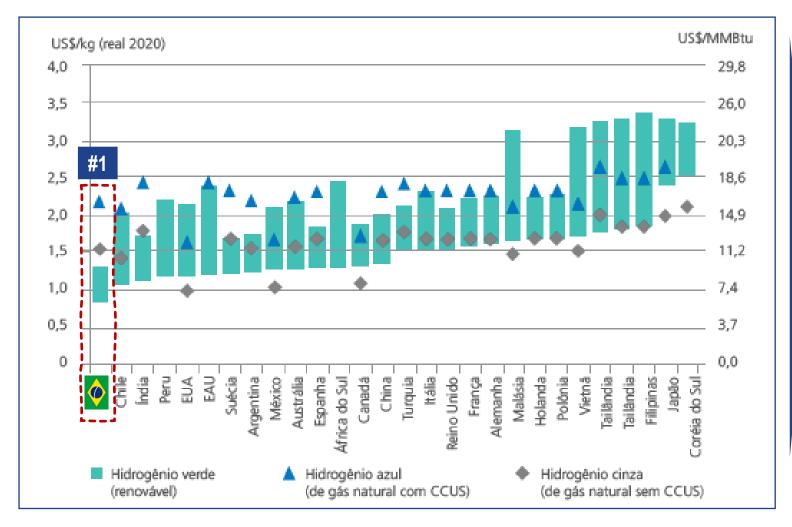


## Brazil has the cleanest energy matrix among major economies (~80% vs. 29% G20 average): advantages for H2 and Green **Neoindustrialization**



Source: Climate Transparency Report, Enerdata, 2020

# Our biofuel and renewable energy leadership enable Brazil to be a candidate leader in Green H2, a solution for *hard-to-abate sectors*



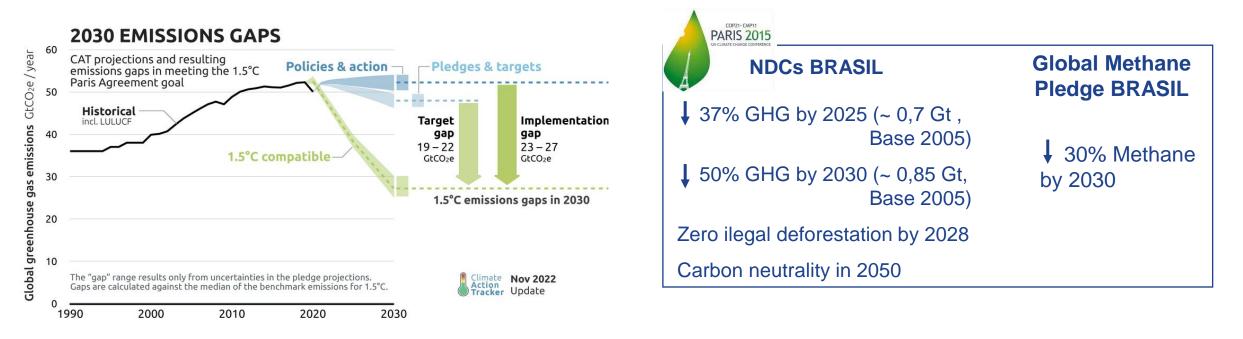
Low carbon Hydrogen offers a unique opportunity to attract investment in FERTILIZERS production chains, GREEN STEEL AND CHEMISTRY

Source: Adapted from BNEF (2021)



# Climate Scenarios show that current policies' efforts are not suficient to keep temperature bellow 1,5° C

 Brazil has aggressive NDCs and the commitments of zero deforestation, our Metano Pledge, and green energy capabilities are key to support this effort

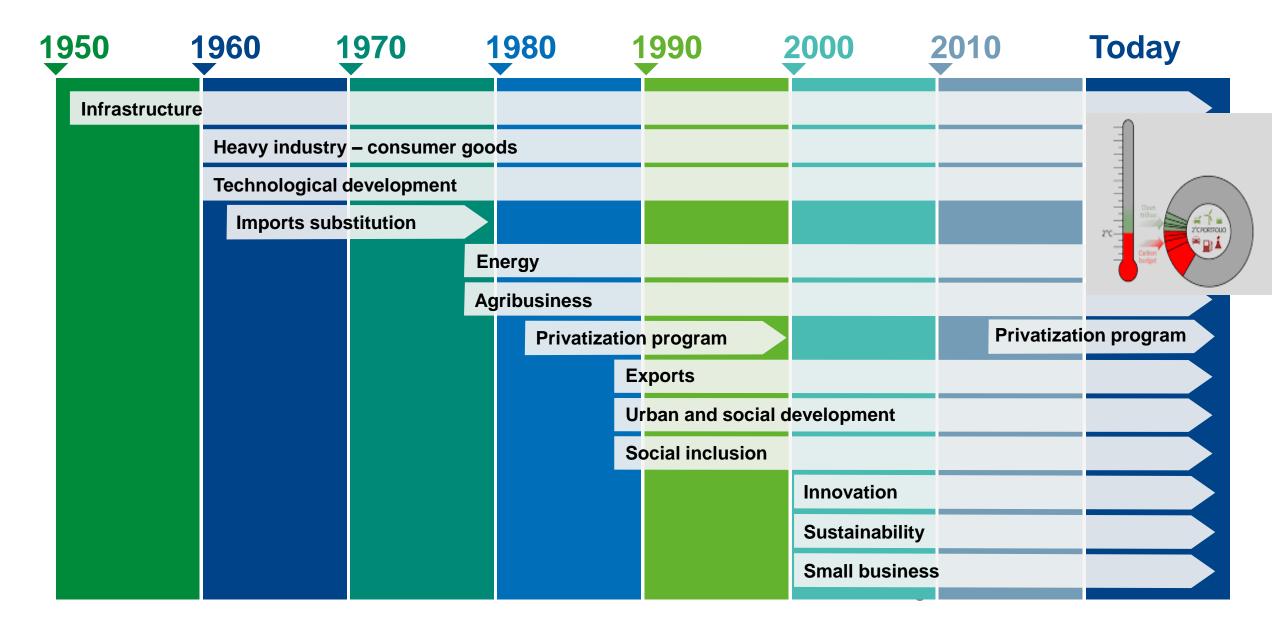


BNDES has the tools and experience to support the transition with the volume and speed needed

**BNDES** 

**BNDES** 

## BNDES new challenge: Keep our portfolio temperature alligned to 1.5 °C



# Since 1952, BNDES has been the main actor for infrastructure and energy transition finance in Brazil

BRL 929bi & +1,900 projects

Financing infrastructure over the last 20 years BRL 257 billion (2022) 52% of the total BNDES portfolio

Infrastructure Loan Portfolio, Transition Energy and Climate Change **BRL 42 billion** (2022) (43% of total disbursements)

Infrastructure Credit Disbursements, Transition Energy and Climate Change



**79 GW** financed by BNDES (70% of the expansion of the electric matrix since 2000)



World's largest global financier of renewable energy (\$35bn)



BRL 20bn of credit contracted for Águas do Rio, the largest sanitation project in Brazil



BRL 6.9 billion of credit contracted for PPP Metrô SP Line 6 (largest urban mobility project in Brazil)

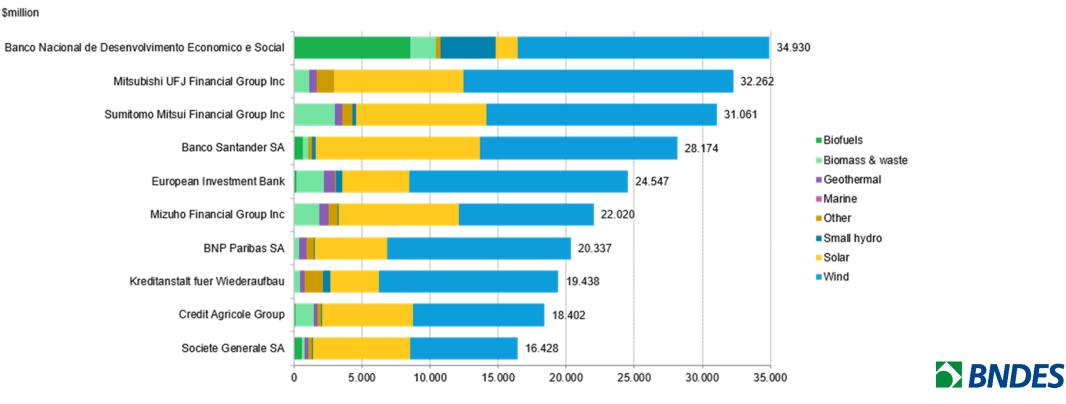


**25,000 km of highways financed** (12% of the Brazilian paved network)

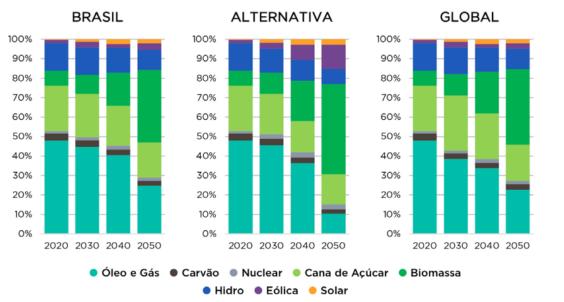


### We are pioneers and leaders in Green Finance globaly

- **ESG Rating A1+ (Moodys ): BNDES positioned among the top 2% in the world**
- > 1st Brazilian Institution to issue Green Bonds in the international market (US\$ 1bn, in 2017)
- > 1st Financial Institution to issue Green Financial Bills in the Brazilian market (BRL 1bn, in 2020)
- Bloomberg/BNEF Global Banking Ranking (Largest Green Energy Finance Funding)

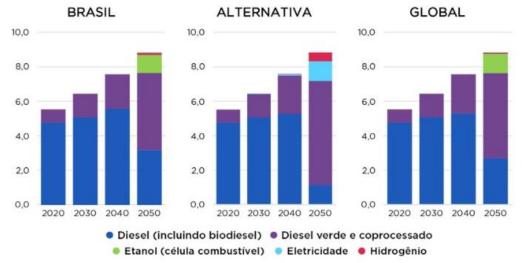


# A Scenario-oriented transition plan combines short and long-term solutions



### Energy Mix in Brazil – BR Energy Planning Scenarios 2050 (EPE)

### Freight Transport Energy Consumption – BR Energy Planning Scenarios 2050 (EPE)



- 2030 Efforts will rely on existing Technologies and energy efficiency efforts:
  - Biomass (Ethanol, Biodiesel)
  - Biogas and biomethane
  - Wind and Solar energy

- Net Zero 2050 depends also on R&D and scalingup new Technologies :
  - Low-carbon hydrogen
  - Green Diesel
  - Carbon Capture
  - SAF,
  - Offshore wind



## **BNDES** and a Just Transition







### **Carbon Market Strategy**



### **BNDES**

### **Carbon Markets as an opportunity**

Brazil :high potential to offer carbon credits and fund sustainable investment

### 58,5 % of its territory is still covered by native forests (SNIF)

- 63,5% of cattle áreas are degradated and can be recovered (Embrapa)
- Forest restauration projects can be scaled up
- REDD+

### **BNDES FLORESTA VIVA**

- Matchfunding with private firms (50% 50%)
- Investment Targets: BRL 700 MM in 7 years
- Able to generate carbon credits

# Carbon credits' financial resources can be invested in:

- Forest communities
- Bioeconomy
- New technologies
- Industrial and transport descarbonization







# **Strenghtening BNDES' role for climate mitigation**



Forests and • Deforestation control

Biodiversity

Water basins

- Forest restauration
- Bioeconomy



Industry

 Funding and policy instrument to update existing industries and foster infant green industries

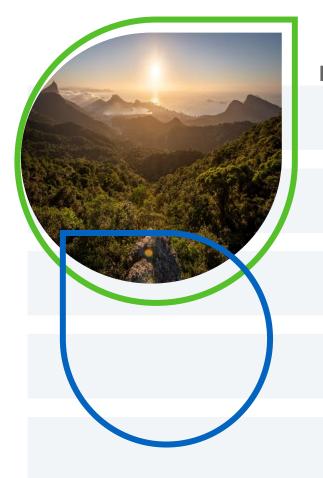


GUARANTEE / COLATERALS FOR GREENFIELD AND PRIORITIZED PROJECTS RISK CAPITAL FOR GREEN INFANT INDUSTRIES AND TECHNOLOGY SUPPLIERS

RESEARCH PROGRAMS AND START-UPS



### **Decarbonization routes for hard-to-abate sectors**



**Priorities:** 

New Technologies – R&D and scale up

Inputs and materials improvements

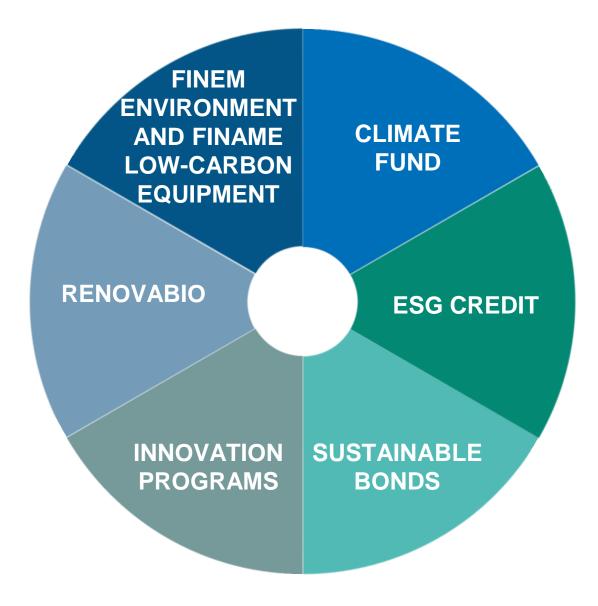
New energy sources and co-generation – biofuels, natural gas, low-carbon hydrogen, etc.

Carbon Capture and Storage

Forest conservation and compensation



### **BNDES** loans for decarbonization investments



# **BNDES Decarbonization Tools: Combining new banking tools**

### NEW PROGRAMS



### NEW TOOLS FOR CLIMATE TARGETS AND TRACKING

### Sustainable Taxonomy

New project classificatio at the project level

#### **Avoided Emmisions**

Tool calculator for all green projects

#### **GHG** Inventory

Calculated for more than 85% of our portfolio at the project level

### **BNDES**

# **Climate Fund and Sovereign Sustainable Bonds (September 2023)**



~ BRL 10 BI In Loans for Climate-related projects

https://www.gov.br/tesouronacional/pt-br/divida-publica-federal/titulos-sustentaveis-arquivos/opiniao-de-segunda-parte-second-party-opinion-spo

"(...) Interest rates for Fundo Clima must have as a minimum reference the BR Treasury Yields, having the last issuance in USD a fixed interest rate of 6,15% p.y."





### How to apply for our products



# https://portal.bndes.gov.br/





### **Main Takeaways**

- Brazilian firms can lead global decarbonization efforts and just transition
- BNDES is providing the tools to support these efforts at the scale and pace of climate and social emergence → 1,5°C alligned portoflio
- BNDES can also provide assistance for project origination and carbon credits
- We have new funding instruments: (i) Floresta Viva; (ii) Fundo Clima 2024; (iii) Innovation (having TR as cost reference)
- We have new assessment tools: (i) Carbon Inventory; (ii) Avoided Emissions; (iii) Taxonomy



# Thank you

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