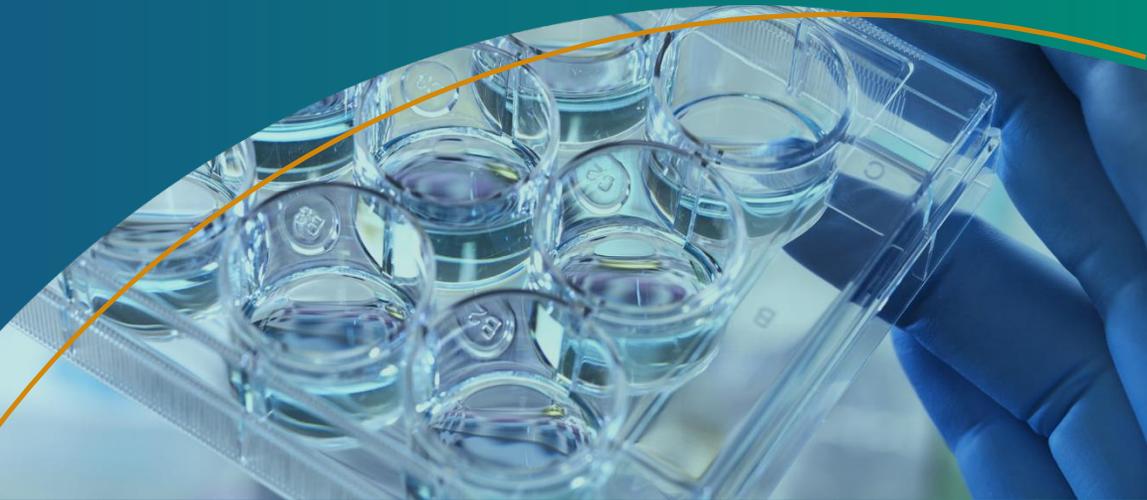


A photograph of several white wind turbines against a clear blue sky, partially obscured by a teal circular graphic element.

# Supporting the **DECARBONIZATION OF ECONOMY**

July 2023



# The Role of BNDES as the main provider of long-term finance in Brazil

Since its foundation, **BNDES has been operating jointly with society to build a better future for generations of Brazilians**

Seven decades of supporting the evolution of the national economy and building bridges between several players

We remain focused on the challenges ahead, opening **new paths for sustainable development**

**Diversified products and services promoting sustainable development**

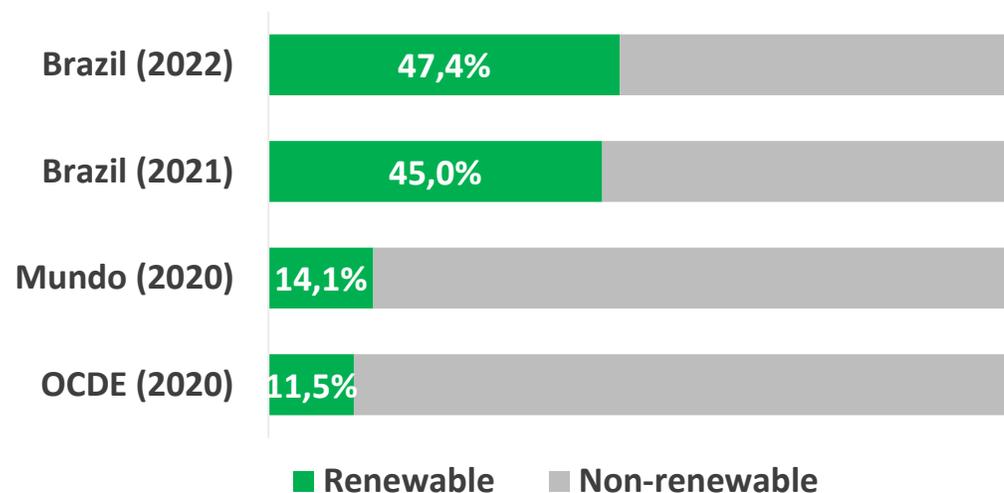


## 2022 Financial Highlights

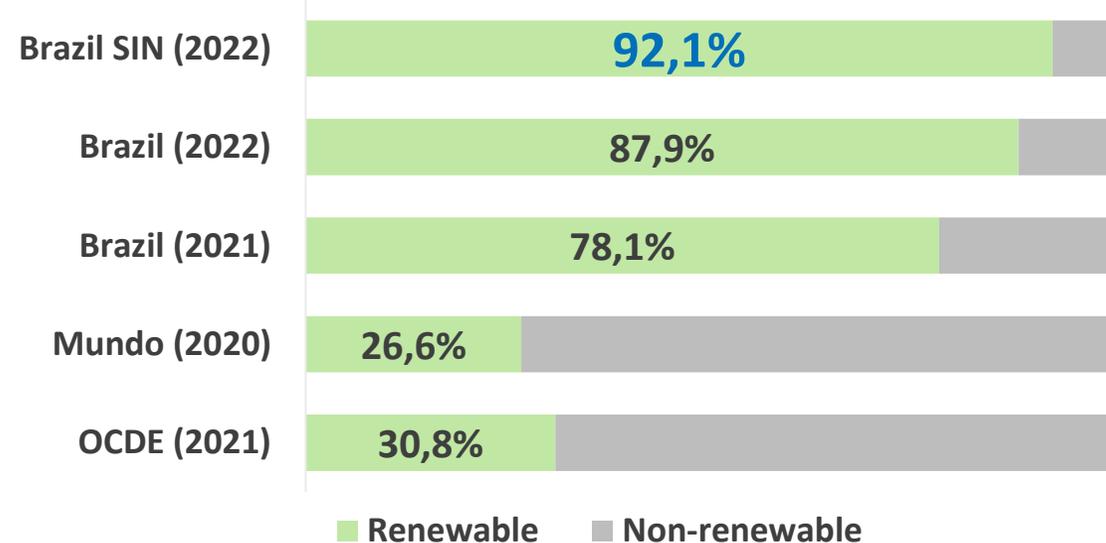
- BRL 479.5 bn in Loan Portfolio
- BRL 97.5 bn in Total Disbursements
- BRL 12.5 bn in Recurring Net Income
- 34.6% Basel Ratio

# Outstanding renewable energy

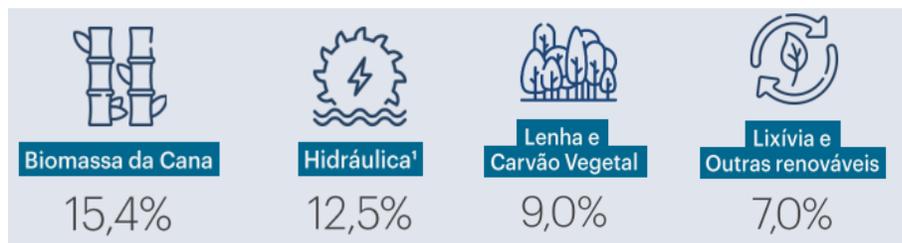
## ENERGY MATRIX



## ELETRIC MATRIX



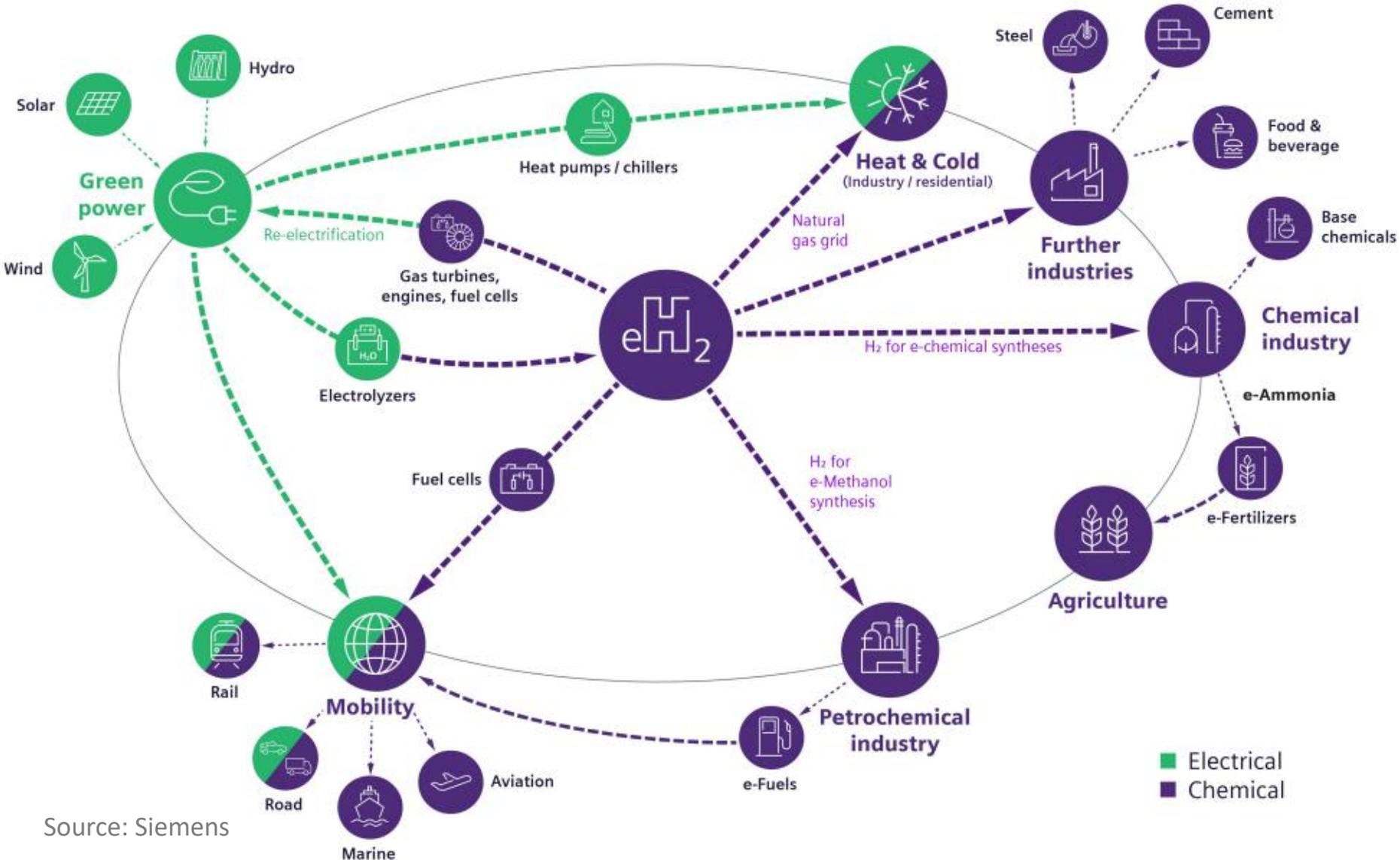
- ✓ **Large scale use of ethanol**, biggest energy renewable source, capable to replace more than half of gasoline demanda in Brazil



- ✓ **82,4% expansion of Solar power capacity**
- ✓ **14,3% expansion of Wind power capacity**



# Green Hydrogen – decarbonized industrial hubs



Source: Siemens

## Projects highlight:



Started construction of the **first green hydrogen plant** in Brazil (Camaçari/Bahia)



Green hydrogen generation project and its derivatives in the Port of Pecem/Ceará, **integrating the entire industrial-productive value chain** associated with it.



**NEUMAN & ESSER**

**Electrolysers plant** for the production of low-emission hydrogen.



**Green Hydrogen and Offshore production** in the Port of Açú/Rio de Janeiro.



# Ethanol & Biofuels



More than **R\$ 60 billion of financial support**, since 2001.  
More **10 billion liters added in anual production** and 3.000 MW in eletricity capacity.



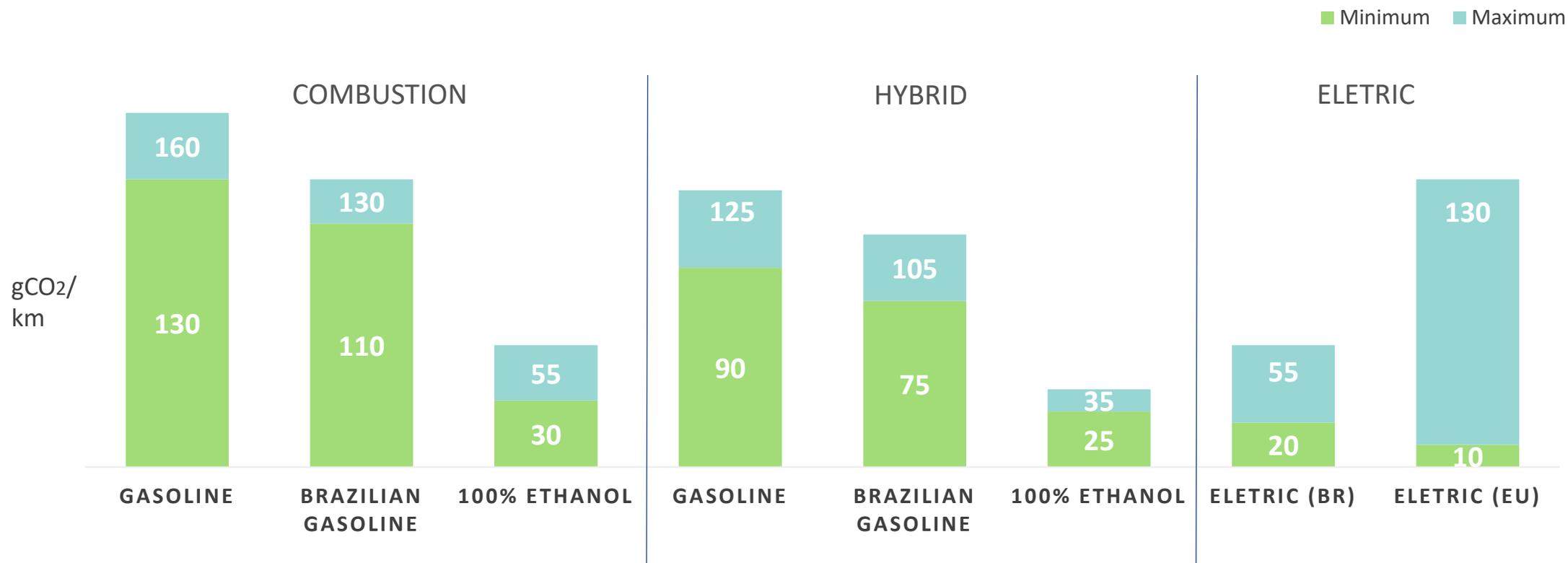
Technological development to **growing investments in second-generation or cellulosic ethanol (E2G), biogas and biomethane, new varieties of sugarcane**, including ethanol hybrid vehicles and ethanol fuel cell.



**Brazilian National Biofuel Policy (RenovaBio)** considered one of the most important policies to promote the decarbonization of the Brazilian energy matrix, based on **Decarbonization Credits (CBIOs) trade**.



# Low-carbon mobility: well-to-wheels GHG emissions for cars by model

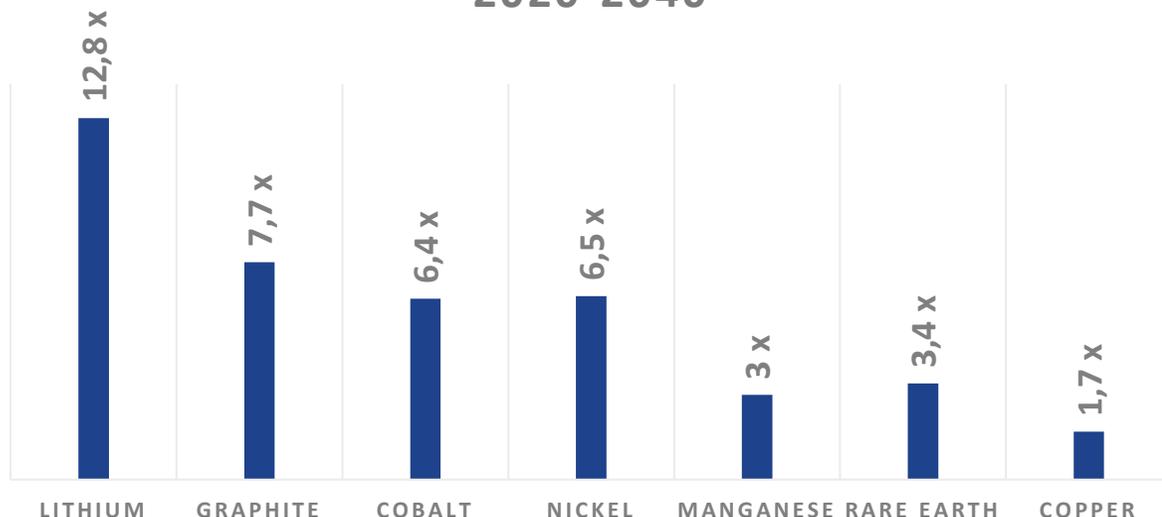


Source: UNICA | Brazilian gasoline considers ethanol-gasoline pump blend of 27% in commercial gasoline.

- ✓ Transition to low-carbon mobility in Brazil should boost the use of biofuels and the development of hybrid platforms

# Critical materials and fertilizers

DEMAND FOR CRITICAL MINERALS (SPS)  
2020-2040



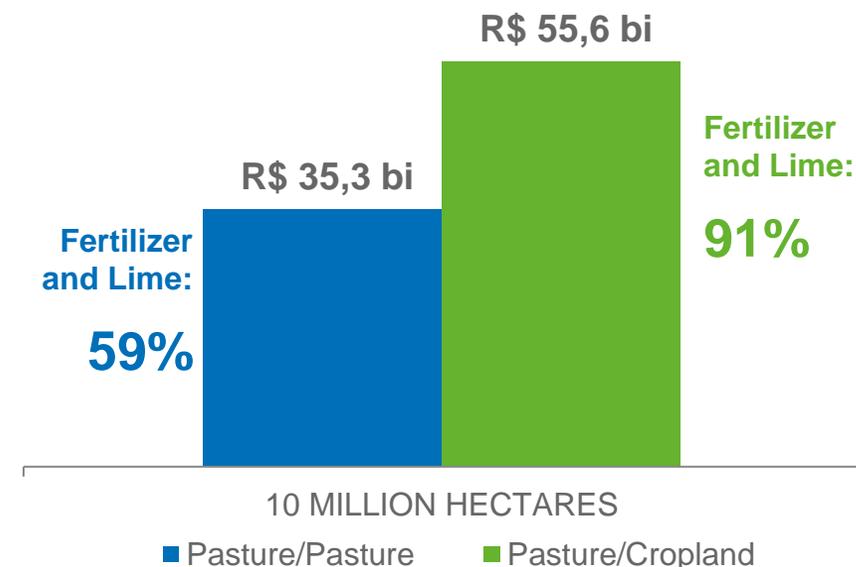
“The response from policy makers and companies will determine whether critical minerals remain a vital enabler for clean energy transitions or become a bottleneck in the process.”

(Dr. Fatih Birol, Executive Director of IEA)

“Brazil has at least one large deposit of each of the listed critical minerals, and its geological framework is suitable for increasing production.”

(Brazilian Geological Survey, SGB-CPRM)

LAND RESTORATION DEMAND



"In Brazil, there are 40 million hectares of pastures with very low productivity, which can and are suitable for agriculture; they can and should be restored, making it possible to increase production without the need to convert new areas".

(Minister of Agriculture Carlos Favaro)



Fonte: IEA; Polidoro e Veillard-Farias (2023)

# Preparing for major investments in industry and climate transition

Diversification of interest rates paid to FAT, incentivized domestic bond issue (LCD), possibility of interest rate reduction on part of FAT funds, expansion of the Climate Fund, accumulated earnings and Foreign fundraising



## Institutional Actions

BNDES has become a member of **FEBRABAN** and held, in March 2023, the “**Strategies for Sustainable Development**” seminar (upcoming seminars throughout the year)



## Foreign funding

Approval of a **USD750 million** operation with **IDB** in the Senate, agreement for a future fundraising of **USD1.3 billion** with **CDB**, fundraising of **USD129.5 million** with **FIDA**, and negotiations with other institutions, such as **JICA**, **NDB**, and **KfW**



## TR for innovation and digitalization

The conversion into law of Provisional Measure 1,147/22, which has already been approved by the House of Representatives, guarantees that up to **1.5% of the balance** of FAT resources at BNDES used for **innovation and digitalization** operations will be remunerated at the **TR**



## Climate Fund

Linked to the Ministry of the Environment (MMA), created to **guarantee resources for projects or studies and financing of enterprises aimed at mitigating climate change**. BNDES is the operator and manager of the Fund's reimbursable resources



Thank you.



MINISTÉRIO DO  
DESENVOLVIMENTO,  
INDÚSTRIA, COMÉRCIO  
E SERVIÇOS



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