

**Challenges, analyses, and
solutions for scaling up
the national and global
plans for clean
energy transition and
cooperation**

**Thursday 30 March, 14:00-17:00,
Energy Sector Outreach Side Event,
BETD - Berlin - Germany**



INETTT
International
Network of
Energy Transition
Think Tanks

Renewables profile - BRAZIL



Facts:

1

The average Capacity Factor (CF) varies from:

Brazil versus **Europe**

Solar PV: **26 - 34%** | **11 - 16%**

Onshore Wind: **36 - 54%** | **25 - 42%**

2

The equivalent of **170GW** in **offshore wind** projects are awaiting environmental licensing.

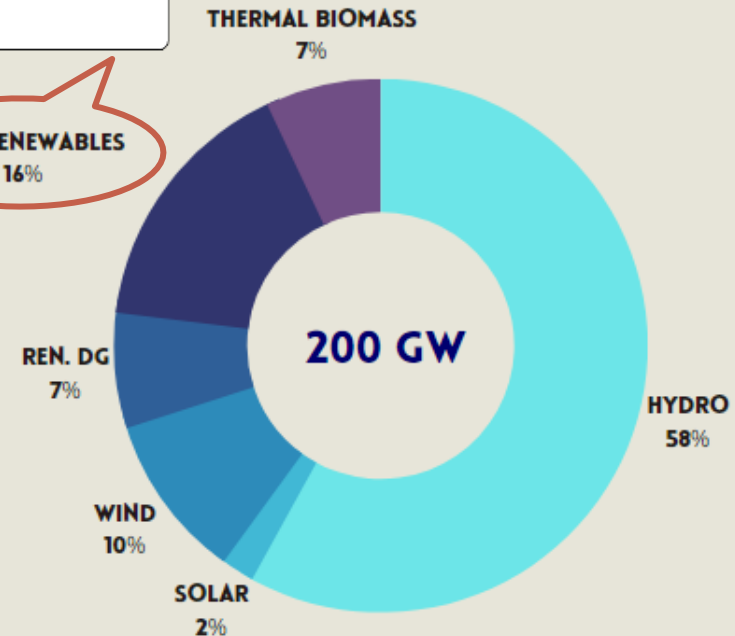
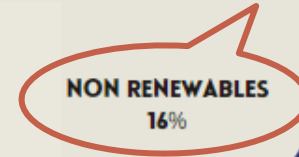
NON RENEWABLES?

Thermals:

- Natural Gas
- Coal
- Nuclear
- Oil

Distributed Generation:

- Diesel



What are the most important immediate, mid and long-term issues/elements related to transformation your country needs to solve to accelerate its clean energy transition?

Brazil has a low-carbon content electricity, which means the country can:

Produce green intermediate goods

Switch from fossil fuels - Energy Transformation

- *Ensure a resilient, carbon-free power system;*
- *Brazil is moving in the opposite direction, adding more fossil fuel thermal plants to maintain the flexibility;*
- *Modernization of the power sector Agenda:*
 - new business models
 - insertion of variable renewables
 - demand response
 - access to the transmission system
 - energy efficiency
 - smart grids
 - market opening
 - the creation of ancillary and capacity markets

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In a second level, the country needs to advance on themes that will support the use of this electricity for industrial processes or for the production of green goods.

Most immediate issues:

- Prevent illegal deforestation,
- Improve enforcement,
- Implement a green certification system,
- Global emissions accounting mechanism,
- Promote awareness among key players,
- Avoid stranded assets,
- Promote industrial policies appropriate to a sustainable economy.

Medium and Long term:

- Create new and expand infrastructures,
- Develop a forest industry,
- Develop a hydrogen market,
- Explore more innovative business models.

What is the role your country can play in a global transformation to a net-zero economy?



Brazil can help promote a global decarbonization, supplying green products with a competitive price for countries that can't produce them.





Example of the steel industry:

- Brazil is the ninth largest (9th) steel producing country in the world and the largest (1st) in Latin America: **maturity of the steel industry + consolidated position in foreign trade.**
- Additionally, the country has a high renewable energy potential and abundant iron ore reserves: **natural resources + high quality feedstock**
- Great conditions to become a more prominent producer of iron and steel.
- Exploit the existing commercial export model to expand the international market.
- Create a market with high value added products.
- Produce goods with negative emissions.

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