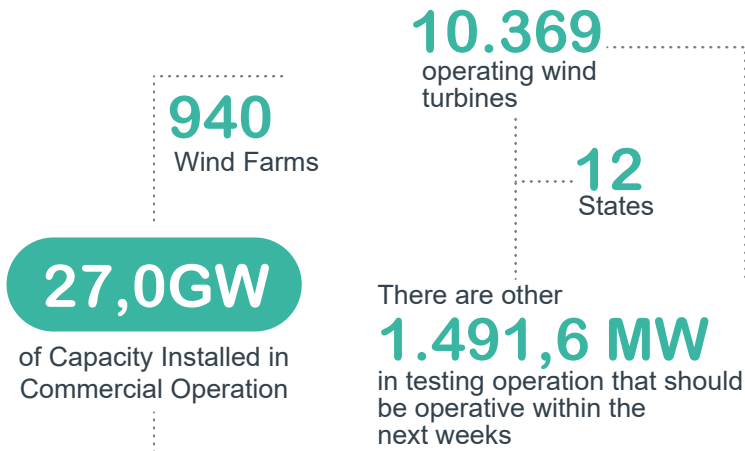
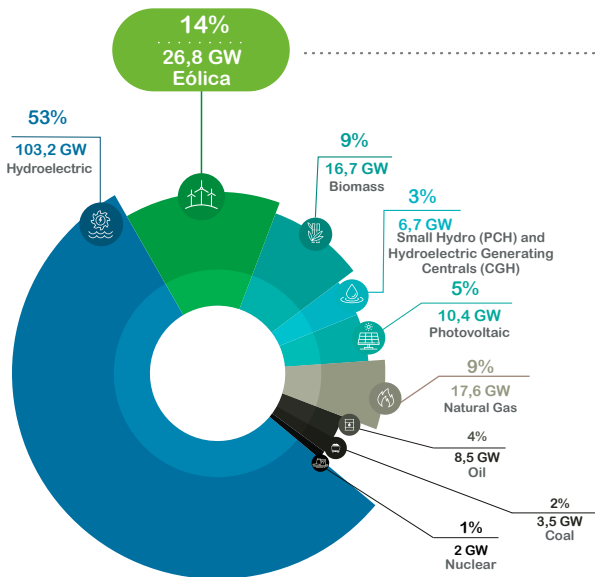


The size of the Brazilian industry



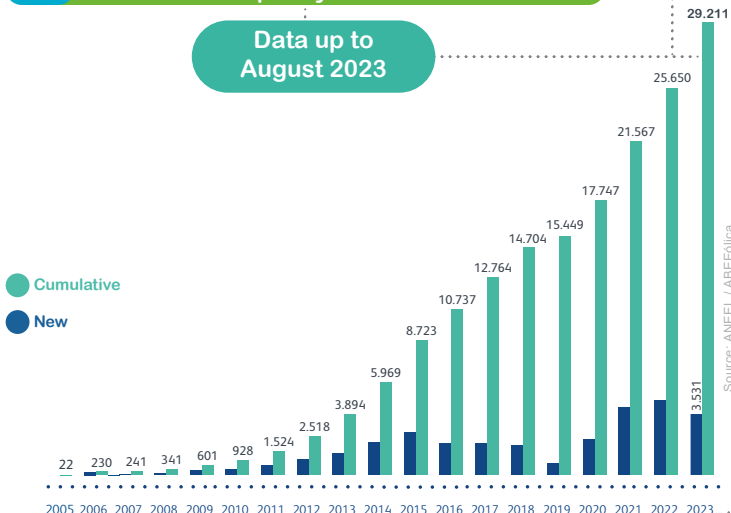
Electrical Matrix of Brazil in GW



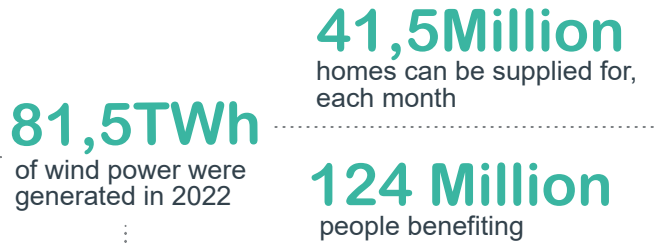
Solar power has over 23 GW of capacity installed in distributed generation

Evolution of Capacity Installed in MW

Data up to August 2023



How much power does that generate?



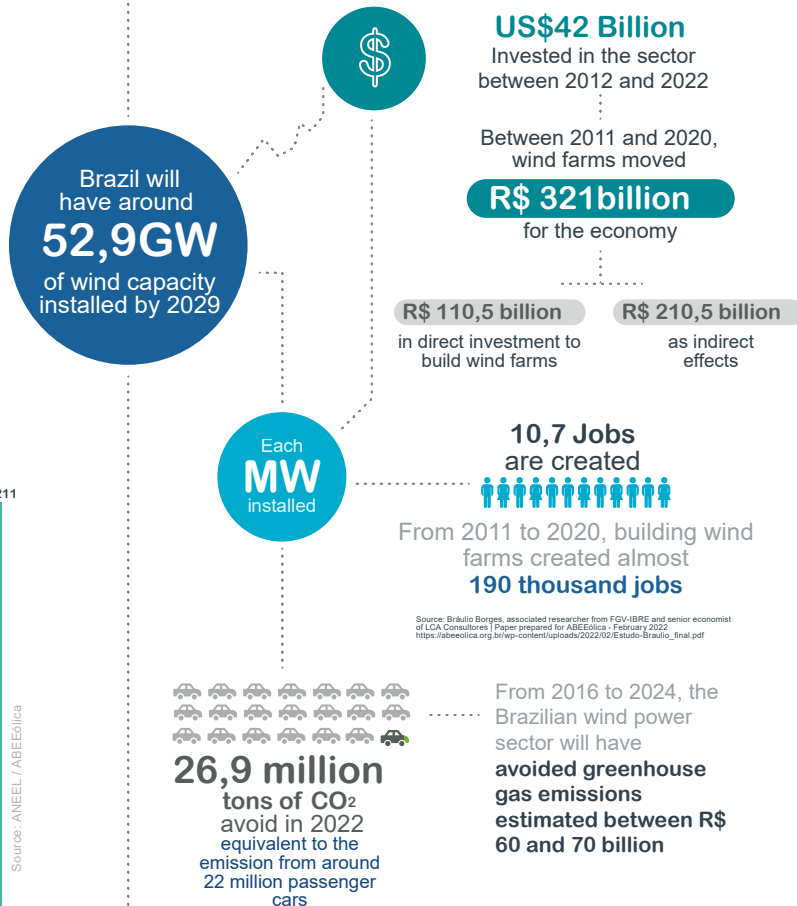
▲ 13%

of growth since previous year

13,5%

of the generation injected to the National Interconnected System (SIN) in the period

Contributions of Wind Power to Brazil



Brazil will have around **52,9GW** of wind capacity installed by 2029

*The data of the future shown in the graph above refer to contracts made available in previous auctions and in the free market. New auctions will add more installed capacity for the years to come.

Wind Power Generation Record by region on a daily basis:

NE 138,10%

of the power consumed in the Northeastern subsystem came from Wind Farms, with a capacity factor of **16.835 MWmed.** (20/07/2023)

SIN 25,63%

of the power consumed in the Northeastern subsystem came from Wind Farms, with a capacity factor of **18.397 MWmed.** (20/07/2023)

S 16,96%

of the power consumed in the Southern subsystem came from Wind Farms, with a capacity factor of **1.796 MWmed.** (07/09/2021)

N 6,70%

of the power consumed in the Northern subsystem came from Wind Farms, with a capacity factor of **413 MWmed.** (04/09/2021)

Capacity installed and number of Wind Farms by state

UPDATED PURSUANT TO ANEEL / ABEEÓLICA IN AUGUST 2023

State	Power (MW)	Farms	Wind Turbines
RN	8.483,03	261	3.116
BA	7.832,77	282	2.861
PI	3.633,5	109	1.255
CE	2.568,3	98	1.138
RS	1.835,9	80	830
PE	1.086,4	41	477
PB	870,4	36	301
MA	426,0	15	172
SC	242,7	15	174
SE	34,5	1	23
RJ	28,1	1	17
PR	2,5	1	5
TT	27.044,03	940	10.369



There are other 1.491.6 MW in testing operation that should be operative within the next weeks

International GWEC Data

Brazil is ranked 6th on the onshore wind power installed capacity World Ranking. In 2012, we were ranked 15th.



Source: GWEC

Did you know?

About 90% of Brazilian wind farms are in the Northeast, region with the best wind in the world to produce wind power.

The good winds of Brazil

Good winds to produce wind power are constant, have a stable velocity and do not change directions frequently.

56,5%

was the maximum monthly average Capacity Factor reached by wind farms in Brazil in September 2022

50%

was the average Capacity Factor in Brazil, 2022, according to IRENA (Renewable Power Generation Costs in 2022)

36%

is the average World Factor according to IRENA (Renewable Power Generation Costs in 2022)

Contextualization of REN ANEEL 1065/2023 Exceptional Mechanism: Regulatory Timeline

Concessions and the MP for the end of subsidy

"Gold Rush"

Access to transmission

2020

- REN 876: Concession Rules
- MP 998: End of subsidy at TUST/D

2021

- Law 14.120 (MP 998)
- CP ANEEL 56: Rev. proposal of REN 876
- Decree no. 10.893: Extinction of Access Info/PCM
- REN No. 1.000: New access rules (dist.)

2022

- REN 1.001: New access rules "IA"
- REN 1.038 (Ref. Dec. 10.893 "IA")
- CP ANEEL 39 (extension of CP 56/22)
- CP MME 141 (ref. Dec. 10.893 "PCM")
- CP ANEEL 52: Access of EOL+UFV in the transmission system under debate



Conjunctural and emergency problem

Delays

Restrictions to the transmission/dispute system by margin

Regulatory restrictions for alterations in schedule

Default and suspension of charges

Insufficient assurance

Excess of demands/requests

Judicialization

1 Law 14.120/2021 (MP998) implemented a transition period up to the start term of the new rules against the discount associated to the TUST/D.

The "exceptional mechanism" of REN ANEEL 1065

The Exceptional Mechanism originated from ABEEÓLICA's request to ANEEL aiming to promote a unique and specific regulatory treatment destined for contract amnesty, schedule regularization, creation of extraordinary line for generation projects.

"Amnesty of contracts"

Incentive to return projects, from the friendly termination of the correspondent to the Transition System Usage Contracts (CUST) and free revocation of the respective Authorization Acts (concessions).

Regularization of schedule

Treatment to regularize projects schedules and associated CUST (if the execution has not been started - "future cycle")

"Extraordinary line"

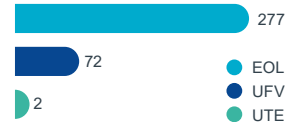
Releasing the margin of the transmission system, caused by the amnesty, many projects that were affected by the inability to drain power in the past can participate in a new access line according to specific rules.

Summary of Numbers: Forgiveness Day

11 States:

- Alagoas
- Bahia
- Ceará
- Goiás
- Minas Gerais
- Mato Grosso do Sul
- Pará
- Pernambuco
- Piauí
- Rio Grande do Norte
- Rio Grande do Sul

Requests for sources (Amnesty/Regularization)



Modality/Source Number of Projects Power (MW)

Modality/Source	Number of Projects	Power (MW)
Amnesty		
EOL	26	1,2
UFV	242	9,8
Regularization		
EOL	46	1,9
UFV	35	1,2
UTE	2	0,6

TOTAL 351 14,7

3 source types (EOL, UFV and UTE)

351 projects

More information:

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- facebook.com/abeelica
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