Industry size in Brazil

16,68 GW
of installed capacity

653
Wind Farms

7,920
Turbines in operation

12
States

How many energy do they generate?

55.9 TWh
of wind energy were generated in 2019

9.7%
of every generation injected into the National Interconnected System in the period.

15.5%
growth in relation to the year previous. It is worth mentioning that, in the same period, the generation of all sources in the National Interconnected System grew 1.5%

What represents this generation?

28.8 Million
of households per month can be supplied

86.3 Million
of benefited inhabitants

Records by area

NE 95.18%
of the energy consumed in Northeast subsystem came from wind farms, with a capacity factor of 70.38% and generation of 8,895,61 MWmed. (20/JUN/2020)

S 16.90%
the energy consumed in South subsystem came from wind farms, with a capacity factor of 85.41% and generation of 1,705,09 MWmed. (25/MAY/2020)

N 7.44%
of the energy consumed in North subsystem came from wind farms, with a capacity factor of 95.73% and generation of 407.82 MWmed. (21/DEC/2019)

SIN 17.00%
of the energy consumed in National Interconnected System came from wind farms, with a capacity factor of 75.52% and generation of 10,677.60 MWmed. (06/SEP/2019)

Did you know?

80% of Brazilian wind farms are in the Northeast, a region that has one of the best winds in the world for producing wind energy.

The favorable winds for producing wind energy are more constant, have a stable speed and do not change direction frequently.

Favorable winds in Brazil

34% is the Capacity Factor approx. global average.

42.7% was the average Capacity Factor in Brazil in 2019.

59.1% was the largest average monthly Capacity Factor that wind energy in Brazil achieved during the “Wind Harvest” period in 2019.
Capacity installed and Number of Wind Farms by State

Sources of energy in Brazil in GW

Future data in the chart above comes from contracts already confirmed in auctions and transactions completed in the free market. New auctions will add further capacity in coming years.

Contributions to wind energy in Brazil

Benefits of Wind Energy

International comparisons

Brazil is ranked 7th in the World Ranking of wind energy installed capacity.

In 2012, Brazil was ranked 15th.

Future data in the chart above comes from contracts already confirmed in auctions and transactions completed in the free market. New auctions will add further capacity in coming years.

Contributions to wind energy in Brazil

US$31.3 Billion

From 2011 to 2019 the investment in the sector was 2019 = US$ 3.45 billion

22.9 Million tons of CO₂ avoided

equivalent to the emission of about 21.7 million cars.

for each
MW installed

15 jobs are created.

Benefits of Wind Energy

Generates income and improves life for landowners with lease for placement of towers

Wind parks do not emit CO₂

Provides training and qualifications for local labor

Enables land-owners to continue planting or growing their animals

One of the best cost-effective energy tariffs

It is renewable, it does not pollute, it contributes for Brazil to fulfill its objectives in the Climate Agreement

International comparisons

GWEC

Source: Bloomberg New Energy Finance - BNEF / MCTIC / ABEEólica

Source: ANEEL / ABEEólica

Source: GWEC

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