INFOWIND BRAZIL
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INDUSTRY SIZE IN BRAZIL

MORE THAN: 14.8 GW OF INSTALLED CAPACITY
580 WIND FARMS
7,500 TURBINES IN OPERATION

OPERATING IN 12 STATES

WHAT DOES THIS GENERATION MEAN?

In 2018 wind generated a total of 48.4 TWh of wind energy

This generation represents 8.6% of the entire generation injected into the National Interconnected System in the period

It was perceived a grown of 14.6% in relation to the generation of the previous year (2017) compared to the 1.5% growth of the generation of the entire SIN generation (National Interconnected System).

In records

Considering the auctions and contracts performed within the free market, Brazil will have approximately 19.4 GW of wind energy capacity installed until 2023

RECORDS

NORTHEAST
On September 13, 2018, 74.12% of all energy used in the northeast came from wind farms operating at a 76.58% capacity factor and a generation of 7,839 MWmed.

SOUTH
On September 1st, 2018, 13.72% of the energy used in the south came from wind farms operating at 77.22% capacity factor and generation of 1,541 MWmed.

NORTH
On September 13, 2018, 3.95% of energy used in the north came from wind farm at a 97.65% capacity factor and generation of 215 MWmed.

SIN National Integrated System
On September 12, 2018, 13.98% of all energy used in the National Integrated System came from wind farms operating at a 72.30% capacity factor and generation of 8,983 MWmed.

FAVORABLE WINDS IN BRAZIL

42% was the Average Capacity Factor in Brazil in 2018.

The average capacity factor for wind farms worldwide is around 25%.

Why are winds in Brazil so good?

From July to November, the windy season, the capacity factor for Brazil can be higher than 60%.

Such winds are abundant in Brazil, especially in the northeast and south.
CONTRIBUTIONS TO WIND ENERGY IN BRAZIL

From 2010 to 2017 the investment in the sector was US$ 32 billion

\[ 2017 = \text{US$ 3.57 billion} \]

\[ \text{Every MW installed creates} = 15 \text{ jobs} \]

Wind energy avoided the emission of about 23 million tons of CO₂ in 2017. This is equivalent to the annual emissions of some 18 million automobiles.

INTERNATIONAL COMPARISONS

Brazil passed Canada in the World Ranking of installed capacity, and is now 8th. In 2012, Brazil was ranked 15th.

BENEFITS OF WIND ENERGY

- Wind power is renewable, non-polluting, has low environmental impact and helps Brazil fulfill its Climate Agreement Goals.
- Wind parks do not emit CO₂.
- The best prices for energy offered at the December 2017 auctions came from wind farms.
- Generates income and improve the quality of life of land-owners who lease their land for wind tower placement.
- There are now some 6,500 such towers in operation in Brazil. We believe some 4,000 families are receiving over R$ 10 million a month in total from leasing land for towers.
- Enables land-owners to continue planting their crops or growing their animals.
- Provides training and qualifications for local labor.