

INFOWIND BRAZIL

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Industry size in Brazil

17.00GW

of installed capacity

660

Wind Farms

Turbines in operation

States

How many energy do they generate?

of wind energy were generated in 2019

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

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

of capacity wind power installed

*Considering auctions already carried out and contracts signed in the free market

Contributions to wind energy

in Brazil



US\$31.3Billion

From 2011 to 2019 the investment in the sector was

2019 = US\$ 3.45 billion

22.9 Million tons of CO, avoided

AAAAAA

Enables land-owners to

growing their animals

continue planting or

equivalent to the emission of about 21.7 million cars.

Sources of energy in Brazil

in GW 8.7% 59.2% 15.2 GW 103.0 GW 6.2 GW Small Hydro 1.8% 3.1 GW Photovoltaic 8.6% 15.0 GW Natural Gas 5.1% 8.9 GW Fuel Oil 2.1% 3.6 GW Mineral Coal 1.1% 2.0 GW



Benefits of Wind Energy



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



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





Provides training and qualifications for local labor

One of the best

cost-effective

energy tariffs

The installation of wind farms contributes to increase in the Gross Domestic Product (GDP) and the Municipal Human Development Index (MHDI), as identified by a study by GO Associados.

Through a comparison between a group of municipalities that have wind farms and another that does not, it was possible to conclude that in the municipalities where there are wind farms:



real GDP increased by 21.15% (period 1999 to 2017)

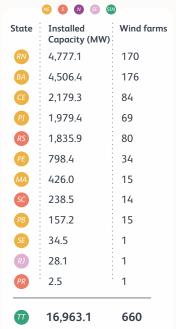


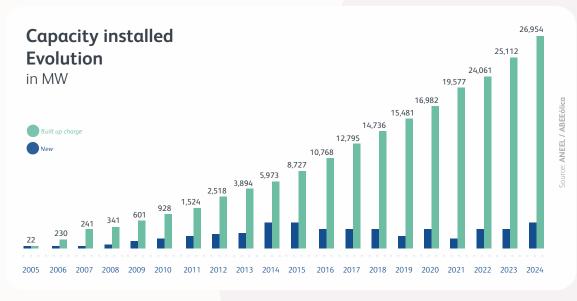
the MHDI grew about 20% (2000 to 2010 period)



Wind energy occupies little land, allowing the continuation of the creation of animals or plantations. Considering the space chosen for a wind farm, the turbines occupy about 8% of the area, and can reach about 6%.







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.

Records

by area



of the energy consumed in Northeast subsystem came from wind farms, with a capacity factor of **71.14% and generation of 9,255.73 MWmed.** (06/AUG/2020)



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)



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)



of the energy consumed in National Interconnected System came from wind farms, with a capacity factor of **66%** and generation of **10,340** MWmed.(05/OCT/2020)

International comparisons

GWEC

Brazil is ranked 7th in the World Ranking of wind energy installed capacity In 2012, Brazil was ranked 15th



Favorable winds in Brazil

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.

is the Capacity Factor approx. global average.



was the average Capacity Factor in Brazil in 2019.



was the largest average monthly Capacity Factor that wind energy in Brazil achieved during the "Wind Harvest" period in 2019."

