Industry size in Brazil

19.77GW

of installed capacity

740 Wind Farms

8,734

Turbines in operation

States

another

are in test operation and should start the commercial operation in the coming weeks

How many energy do they generate?

of wind energy were generated in 2019

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

growth over the previous year.

What represents this generation?

28.8 Million

of households per month can be supplied

86.4Million

of benefited inhabitants

Brazil will have about .35GW

of wind power installed capacity until 2026*

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

Contributions to wind energy

in Brazil



US\$35.8Billion

Of investments from 2011 to 2020.

MW

15 jobs are created.

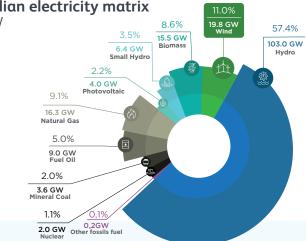
21.2 Million

tons of CO, avoided in 2019



equivalent to the emission of about 20.9 million cars.

Brazilian electricity matrix in GW



Benefits of Wind Energy



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



Enables land-owners to continue planting or growing their animals



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



One of the best cost-effective energy tariffs



Wind parks do not emit CO₂



Provides training and qualifications for local labor

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: to identify that in the municipalities that received their installation:



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



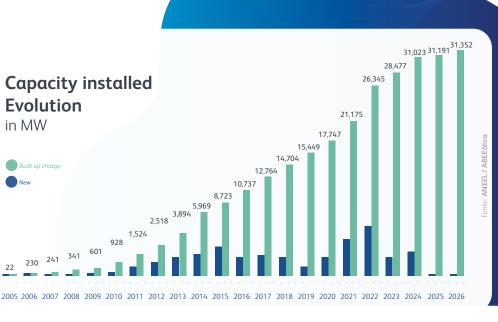
the MHDI grew about 20% (2000 to 2010 period)



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.

Wind farms in test operatios in MW = 988.6MW / Number of wind farms = 20 / Number of wind turbines: 242

740

8.734

Records

by area



19.770.8

of the energy consumed in Northeast subsystem came from wind farms, with generation of 11,680.00 MWmed. (06/AUG/2020)

N 6.36%

of the energy consumed in North subsystem came from wind farms, with a capacity factor of **95.98% and generation of 408.87 MWmed.** (21/DEC/2019) 5 14.04%

the energy consumed in South subsystem came from wind farms, with a capacity factor of **87.77%** and generation of **1,755.79** MWmed. (25/MAY/2020)

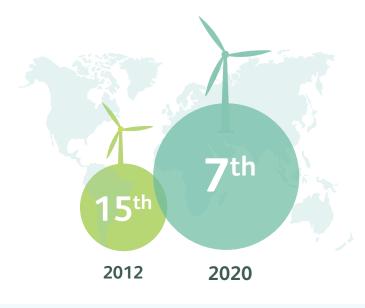
SIN 18.40%

of the energy consumed in National Interconnected System came from wind farms, with a capacity factor of **62.57% and generation of 12,486.08 MWmed.** (08/APR/2019)

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.

40.6%

was the average Capacity Factor in Brazil in 2020.

59%

was the largest average monthly Capacity Factor that wind energy in Brazil achieved during the "Wind Harvest" period in 2020."

