AN AVERAGE OF 25 MILLION HOUSEHOLDS WERE SUPPLIED BY WIND POWER MONTHLY IN 2017 AROUND 75 MILLION PEOPLE

INDUSTRY SIZE IN BRAZIL
14.34 GW OF INSTALLED CAPACITY
568 WIND FARMS
7,000 TURBINES IN OPERATION

MORE THAN: OPERATING IN 12 STATES

WHAT DOES THIS GENERATION MEAN?

During the last 12 months (Sep/17 through Aug/18) wind generated a total of 47 TWh of wind energy.
This represents a 24% increase compared to the last 12 months (Sep/16 through Aug/17).
This is 8.4% of all the energy fed into the National Interconnected System in 2017.

And how many energy do they generate?

Considering the auctions and contracts performed within the free market, Brazil will have approximately 18 GW of wind energy capacity installed until 2024.

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.

SOUTH
On September 1st, 2017, 13.72% of the energy used in the south came from wind farms operating at 77.22% capacity factor.

NORTH
On September 13, 2017, 3.95% of energy used in north came from wind farm at a 97.65% capacity factor.

SIN National Integrated System
On September 12, 2017, 13.98% of all energy used in the National Integrated System came from wind farms operating at a 72.30% capacity factor.

FAVORABLE WINDS IN BRAZIL

Average capacity factor in Brazil (Sep/17 - Aug/18) 42.5%
The average capacity factor for wind farms worldwide is around 25%

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

Why are winds in Brazil so good?

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 = US$ 3.57 billion

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.

Every MW installed creates = 15 jobs

Meaning wind energy has already created 190 thousand jobs.

**Sources of Energy in Brazil (GW)**

- **GW**
  - Wind: 14.3%
  - Biomass: 14.1%
  - Natural Gas: 12.7%
  - Coal: 3.7%
  - Small Hydro: 5.8%
  - Fuel Oil: 9.8%
  - Nuclear: 2%
  - Built up charge: 1.9%

**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.

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.