**Records by area**

<table>
<thead>
<tr>
<th>Region</th>
<th>Percentage</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>NE</td>
<td>88.8%</td>
<td>of the energy consumed in Northeast subsystem came from wind farms, with a capacity factor of 71.5% and generation of 8,875 MWmed. (06/SEP/2019)</td>
</tr>
<tr>
<td>S</td>
<td>13.52%</td>
<td>of the energy consumed in South subsystem came from wind farms, with a capacity factor of 77.3% and generation of 1,543 MWmed. (05/JUL/2019)</td>
</tr>
<tr>
<td>N</td>
<td>6.88%</td>
<td>of the energy consumed in North subsystem came from wind farms, with a capacity factor of 93.9% and generation of 400 MWmed. (28/OCT/2019)</td>
</tr>
<tr>
<td>SIN</td>
<td>17%</td>
<td>of the energy consumed in National Interconnected System came from wind farms, with a capacity factor of 75.5% and generation of 10,678 MWmed. (06/SEP/2019)</td>
</tr>
</tbody>
</table>

**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 Capacity Factor average in Brazil in 2019.
- **60%** is the average monthly capacity factor that Brazilian wind farms can achieve during the “wind harvest” installed capacity and number of wind farms by state.
Capacity installed and Number of Wind Farms by State

**Contributions to wind energy in Brazil**

US$31.2 Billion

From 2011 to 2018 the investment in the sector was equivalent to the emission of about 16 million cars.

22.9 Million tons of CO₂ avoided

15 jobs are created.

**Benefits of Wind Energy for everybody and world**

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 their crops or growing their animals

One of the best cost-effective energy tariffs and tax

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

**International comparisons**

Brazil is ranked 8th in the World Ranking of wind energy installed capacity. In 2012, Brazil was ranked 15th.

**Sources of energy in Brazil in GW**

- **59.8%** Hydro
- **103.0 GW** Hydro
- **9.0%** Wind
- **15.5 GW** Wind
- **3.6%** Photovoltaic
- **6.1 GW** Small Hydro
- **1.5%** Biomass
- **13.4 GW** Natural Gas
- **5.5%** Natural Gas
- **9.1 GW** Fuel Oil
- **2.1%** Fuel Oil
- **3.6 GW** Mineral Coal
- **1.2%** Mineral Coal
- **2.0 GW** Nuclear
- **0.2%** Nuclear

**Biomass**

2.0 GW

**Biomass**

1.2%