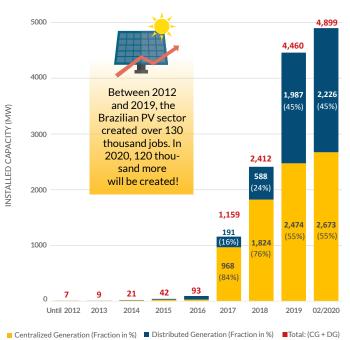


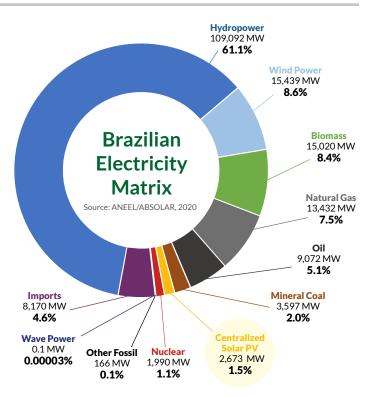
Updated on Mar. 2<sup>nd</sup>, 2020 | n. 17

# Solar Photovoltaic Energy in Brazil ABSOLAR's Infographic

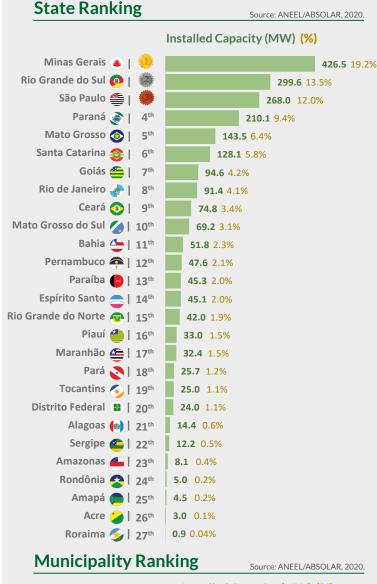








# **Distributed Generation**





# What is the Solar PV Installed Capacity in Brazil?

Centralized Generation **2,673.3 MW** 



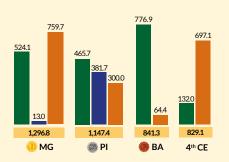
Distributed Generation 2,225.8 MW



Total Operational Capacity 4,899.1 MW

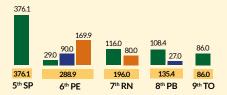
# Centralized Generation Source: ANEEL/ABSOLAR, 2020.

Installed capacity (MW) and status of the PV Power plants in the energy auctions of the regulated market per State:



4.4 GW Contracted capacity in energy auctions which will come into operation by 2025.

BRL 25.4 billion dy contracted in



#### Operational

In Construction

Construction

#### Total by State

# Distributed Generation Source: ANEEL/ABSOLAR, 2020.

Microgeneration (until 75 kW) and minigeneration (above 75 kW until 5 MW) solar PV systems installed at homes, commercial buildings, industries, rural properties and public buildings.





#### is the share of solar PV installed capacity in micro and minigeneration, leading by far the distributed generation market.

99.8% of all micro and minigeneration

R\$ 11.9 billion in cumulative investments since

2012, distributed in all regions and states of the country.





connections are from

solar PV systems.



191,489 Solar PV

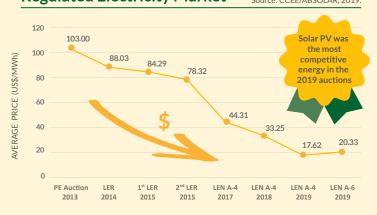
systems connected to the grid.

consumer units (0.3% from the total) receiving electricity credits through net-metering.

2.225.8 MV is the installed capacity of solar PV energy in distributed

generation.

### **Price Development** of Solar PV Energy in the Energy Auctions of the **Regulated Electricity Market** Source: CCEE/ABSOLAR, 2019.



# **Electricity Generation Records**

Source: ONS/MME, 2020.

Solar PV achieved new records of electricity generation in Brazil:

#### **DAILY AVERAGE** Dec. 16th, 2019

703.1 MW average with a capacity factor of

32.0%

# **DAILY MAXIMUM**

Jan. 16th, 2020

# 1,819.2 MW

at 11h a.m. with instantaneous capacity factor of



of the electricity supplied in Brazil was generated from solar PV energy in January 2020.

# Value Chain

Number of national manufacturers from the solar PV sector registered at BNDES FINAME financing program:



Brazil needs a competitive and fair industrial policy fot he solar PV sector, reducing the prices of components and equipments made in the country and creating more jobs, technology and innovation.







**10** 







Solar PV System (kit)

Tracker

Solar PV

PV Module

String Box

Batterv

# Main Benefits of Solar PV to Brazil



## Socioeconomical

- Reduction of expenses with electricity for the population, businesses and governments, lowering costs to society.
- Leader in local quality jobs, creating 25 to 30 jobs per MW/year.
- Attraction of foreign capital and new private investments for the country.



#### **Environmental**

- Generation of clean, renewable and sustainable electricity, free of greenhouse gases emissions, without waste or noise.
- No water usage during operation, reducing the pressure on water resources.
- Low environmental impact.



#### **Strategical**

- Diversification of the Brazilian electricity matrix with a renewable energy, increasing reliability of the electricity supply.
- $\overline{\mathbf{A}}$ Reduction of losses and postponement of investments in transmission and distribution grids.
- $\square$ Relief of electrical demand during daytime, reducing costs to consumers.







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+55 11 3197-4560 absolar@absolar.org.br absolar.org.br

Avenida Paulista 1636, 10° andar, conj. 1001, ZIP 01310-200 Bela Vista, Sao Paulo, SP, Brazil