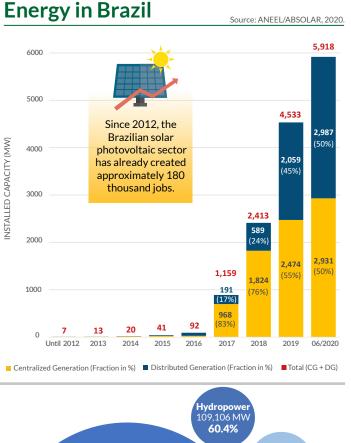


Updated on July 2<sup>nd</sup>, 2020 | n. 21

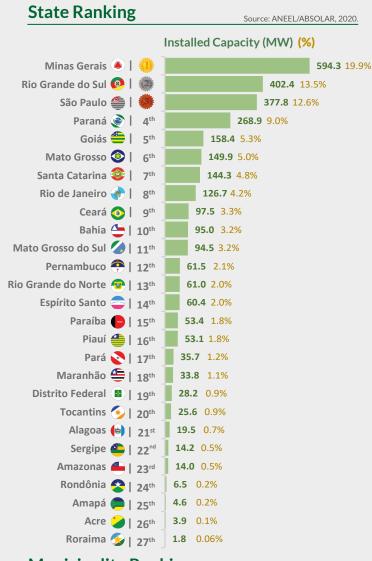
# Solar Photovoltaic Energy in Brazil ABSOLAR's Infographic







# **Distributed Generation**



# **Municipality Ranking**

Source: ANEEL/ABSOLAR, 2020.



# What is the Solar PV Installed Capacity in Brazil?

Centralized Generation **2,931.0 MW** 



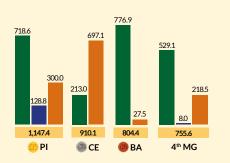
Distributed Generation **2,987.0 MW** 



Total Operational Capacity 5,918.0 MW

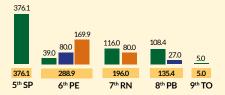
### Centralized Generation Source: ANEEL/ABSOLAR, 2020.

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



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





#### Operational

In Construction

- Construction
- Total by State

## Distributed Generation Source: ANEEL/ABSOLAR, 2020.

Distributed microgeneration (up to 75 kW) and minigeneration (above 75 kW up to 5 MW) solar PV systems installed at homes, commercial buildings, industries, rural properties and public buildings.



# 94.2%

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 connections are from

solar PV systems.



**R\$ 15.16** billion

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



254,416 Solar PV systems connected to the grid.



318,244 consumer units

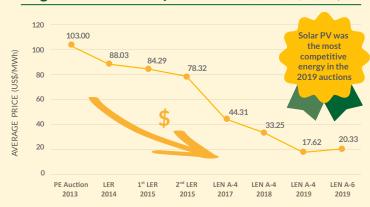
(0.4% from the total) receiving electricity credits through net-metering.



#### 2.987.0 MW

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 on the SIN (National Grid System) in Brazil:



#### **DAILY AVERAGE** Apr. 03<sup>rd</sup>, 2020

753.1 MW

average with a capacity factor of

27.6%

#### **DAILY MAXIMUM**

Apr. 03<sup>rd</sup>, 2020

2,073.1 MW at 10 a.m. with instantaneous capacity factor of

76.0%

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

#### Value Chain

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



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



Solar PV

System (kit)













Solar PV

Tracker

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 gas emissionss, 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.
- $\square$ Reduction of losses and postponement of investments in transmission and distribution grids.
- $\square$ Relief of electrical demand during daytime, reducing costs to consumers.







/ABSOLAR

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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