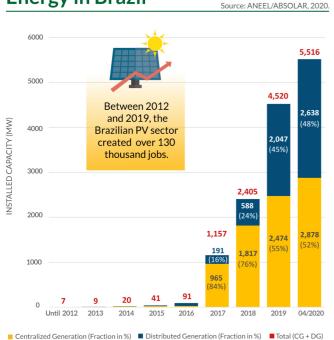


Solar Photovoltaic Energy in Brazil ABSOLAR's Infographic

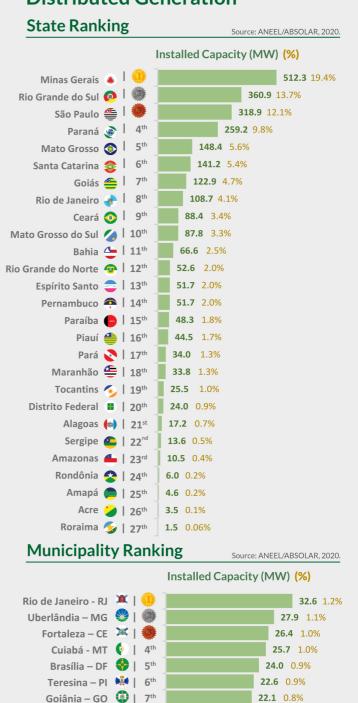
Updated on May 4th, 2020 | n. 19

# **Evolution of the Solar Photovoltaic Energy in Brazil**





## **Distributed Generation**



# What is the Solar PV Installed Capacity in Brazil?

Centralized Generation **2,878.0 MW** 



Distributed Generation **2.638.0 MW** 



Belo Horizonte - MG

Campo Grande – MS 💿 | 9<sup>th</sup>

Maringá – PR 👛 | 10<sup>th</sup>

Total Operational Capacity 5,516.0 MW

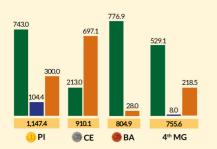
**19.8** 0.8%

**17.5** 0.7%

14.4 0.5%

# 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:



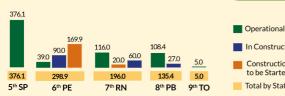
4.6 GW Contracted capacity in energy auctions which will come into operation by 2025.

R\$ 25.8 billion cted volume of tments by 2025

In Construction

Construction to be Started

Total by State



## **Electricity Generation Records**

LFR

**Price Development** 

103.00

100

80

60

AVERAGE PRICE (US\$/MWh)

**Regulated Electricity Market** 

88.03

Source: ONS/MME, 2020.

LEN A-6

Source: CCEE/ABSOLAR, 2019.

Solar PV was

the most

competitive energy in the 2019 auctions

Solar PV achieved new records of electricity generation on the SIN (National Grid System) in Brazil:

1st LER

LEN A-4

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

PE Auction

703.1 MW with a capacity

factor of 32.0% **DAILY MAXIMUM** Mar. 28th, 2020

2<sup>nd</sup> LER

of Solar PV Energy in the Energy Auctions of the

44.31

LEN A-4

33.25

LEN A-4

2.020.2 MW with instantaneous capacity factor of

75.3%

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

# 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.



#### 93.7%

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\$ 13.8 billion

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



228,218 systems connected to the grid.



285,570 consumer units

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



2,638.4 MW

is the installed capacity of solar PV energy in distributed generation.

# 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)

Tracker

Solar PV

PV Module

String Box

Battery

#### 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.

Reduction of losses and postponement of investments in transmission and distribution grids.

Relief of electrical demand during daytime, reducing costs to consumers.











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