



# ABSOLAR

Brazilian Solar Photovoltaic Energy Association

Updated on February 2<sup>nd</sup>, 2022 | n. 40

# Solar Photovoltaic Energy in Brazil

## ABSOLAR's Infographic

## Solar PV Energy Benefits to Brazil

Source: ABSOLAR, 2022.



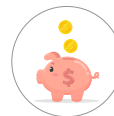
Over **13.5 GW** in operation.



Over **R\$ 72.3 billion** in new investments.



Over **405 thousand new jobs** created in the country.



Over **R\$ 18.2 billion** in taxes collected.

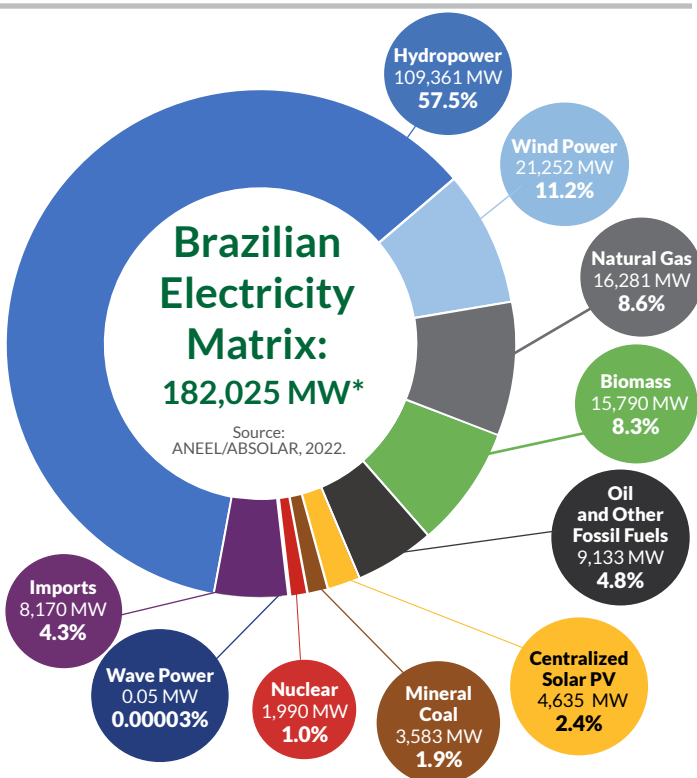
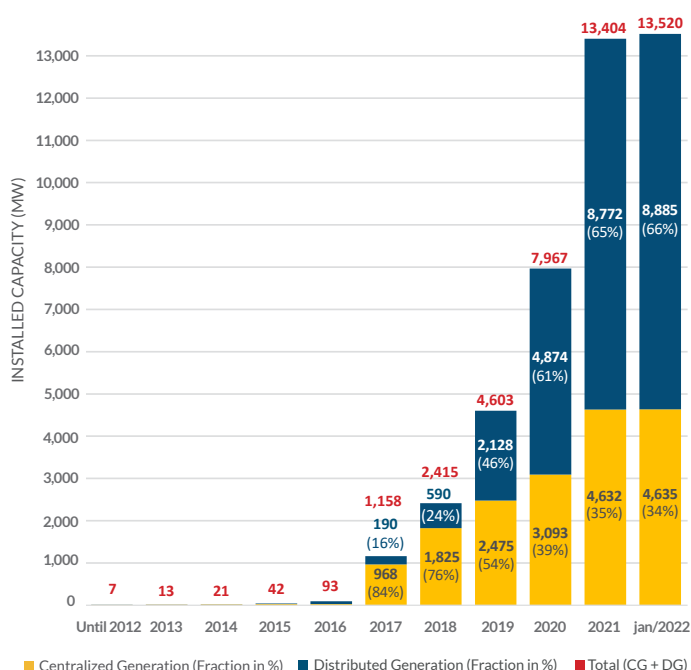


Over **17.7 million tons** of CO<sub>2</sub> avoided.

Data accumulated since 2012.

## Evolution of the Solar Photovoltaic Energy in Brazil

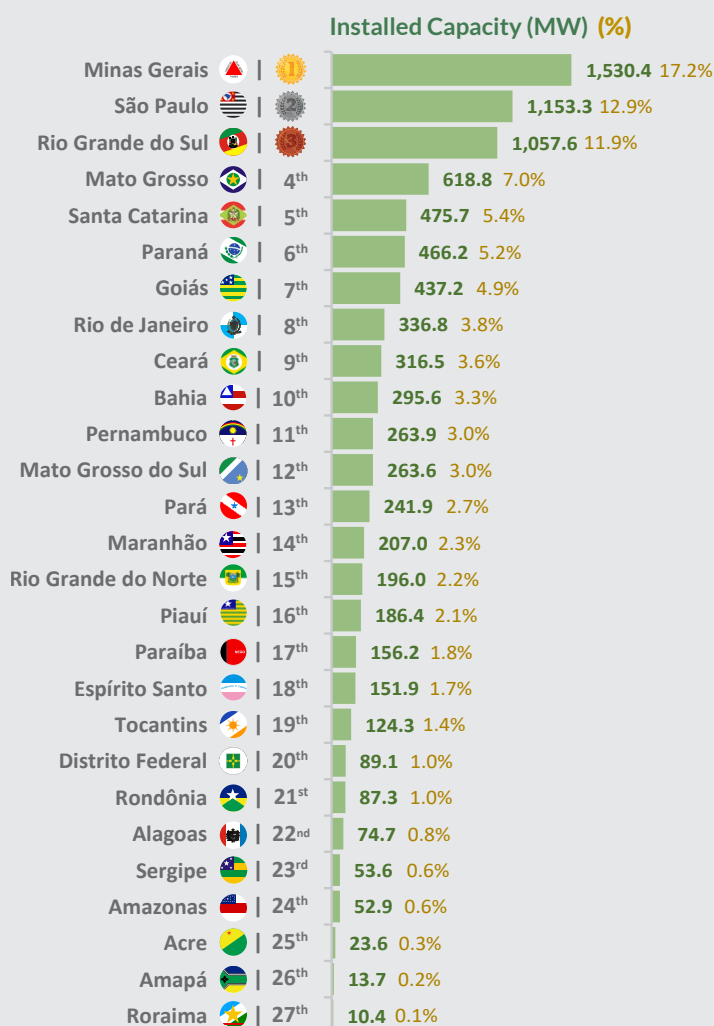
Source: ANEEL/ABSOLAR, 2022.



\*The matrix total capacity does not include imports.

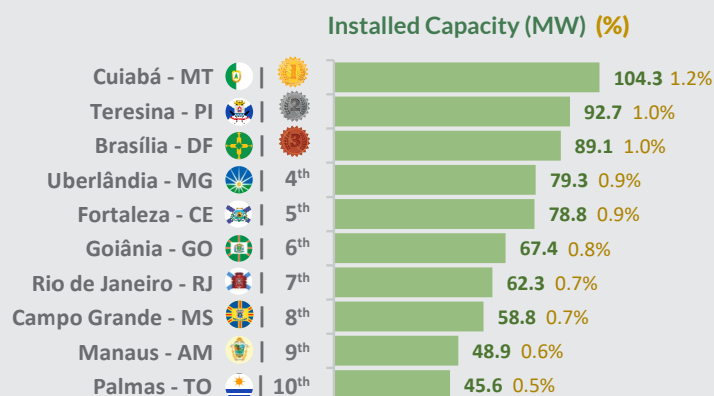
## Distributed Generation State Ranking

Source: ANEEL/ABSOLAR, 2022.



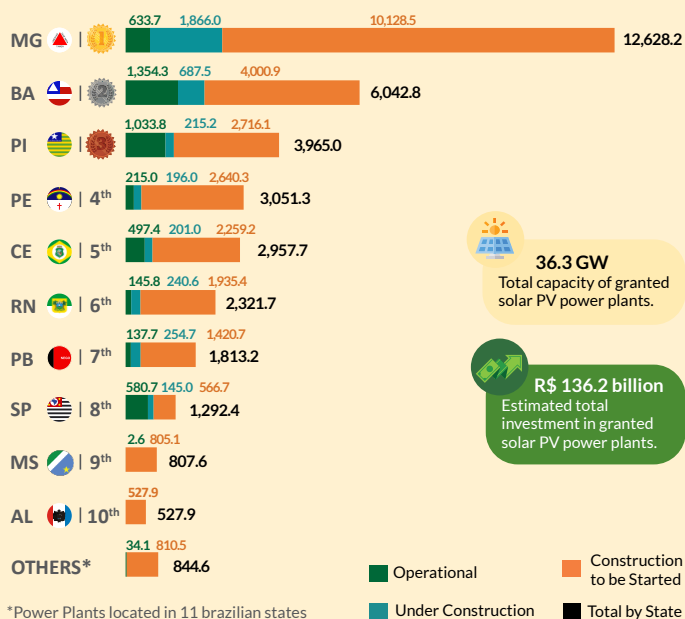
## Municipality Ranking

Source: ANEEL/ABSOLAR, 2022.

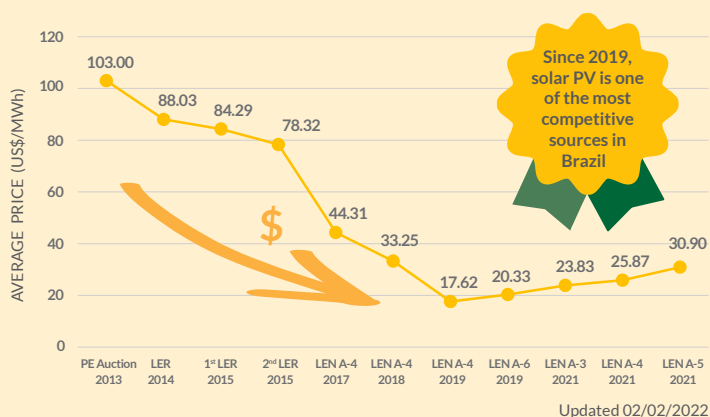


## Centralized Generation Source: ANEEL/ABSOLAR, 2022.

Installed capacity (MW) and status of granted solar PV power plants of the regulated market and of the free market per state:



## Price Development of Solar PV Energy in the Energy Auctions of the Regulated Electricity Market Source: CCEE/ABSOLAR, 2022.



## Electricity Generation Records Source: ONS/MME, 2022.

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

**DAILY AVERAGE**  
Oct. 5<sup>th</sup>, 2021

**1,322**  
MW average meeting

**1.8%**  
of the demand for electricity in Brazil

**DAILY MAXIMUM**  
Sep. 28<sup>th</sup>, 2021

**3,626 MW**  
at 10:52 a.m.  
equivalent to

**4.7%**  
of the national demand at that moment



**1.7%**  
of the electricity supplied in Brazil was generated from solar PV energy in January 2022.

## Distributed Generation Source: ANEEL/ABSOLAR, 2022.

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.

**97.9%**  
is the share of solar PV installed capacity in distributed microgeneration and minigeneration, leading the segment by far.

**99.9%**  
of all distributed micro and minigeneration connections are from solar PV systems.



**816,961**  
Solar PV systems connected to the grid.



**1,028,555**  
consumer units  
(1.2% from the total)  
receiving electricity credits through net-metering.

## Value Chain Source: BNDES, 2022.

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



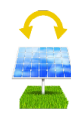
**72**

Solar PV System (kit)



**9**

Solar PV Inverter



**7**

Tracker



**7**

PV Module



**2**

String Box



**1**

Battery

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 Distributed Generation by Consumer Type in Brazil Source: ANEEL/ABSOLAR, 2022.

