

Updated on November 1<sup>st</sup>, 2021 | n. 37

### Solar PV Energy Benefits to Brazil

Source: ABSOLAR, 2021.



Over **11.5 GW** in operation.



Over **R\$ 58.2 billion** in new investments.



Over **347 thousand new jobs** created in the country.



Over **R\$ 15.6 billion** in taxes collected.

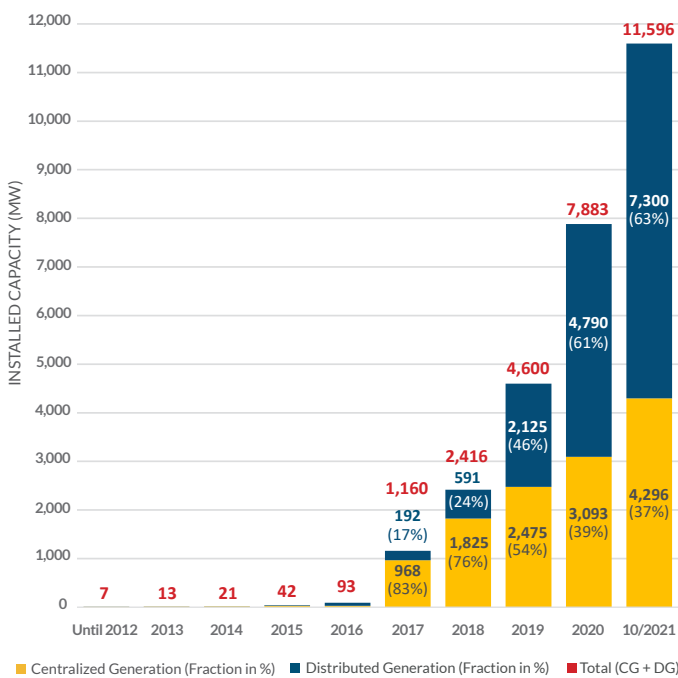


Over **13.6 million tons** of CO<sub>2</sub> avoided.

Data accumulated since 2012.

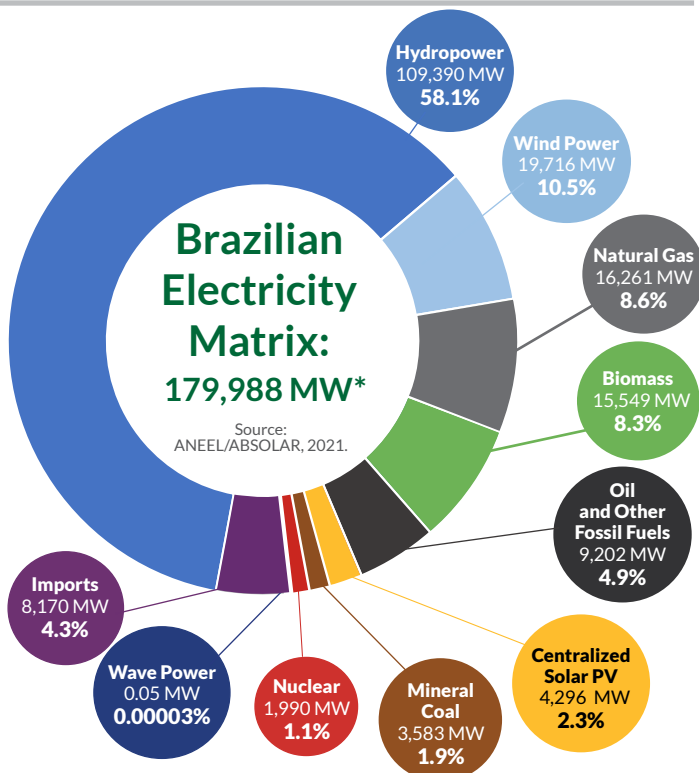
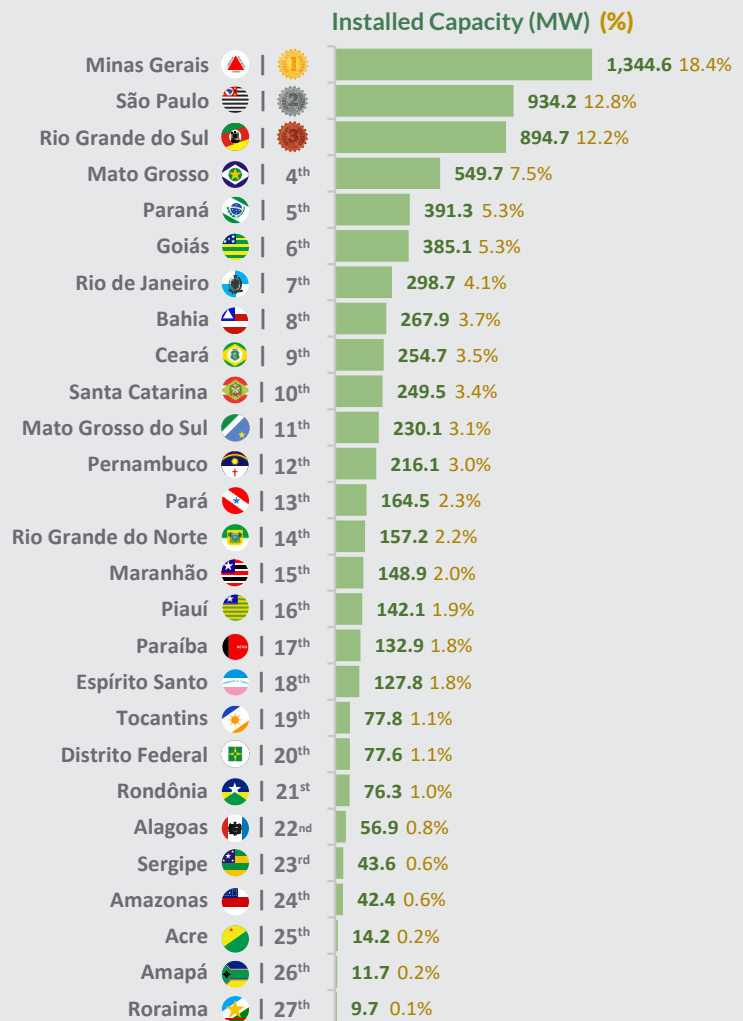
### Evolution of the Solar Photovoltaic Energy in Brazil

Source: ANEEL/ABSOLAR, 2021.



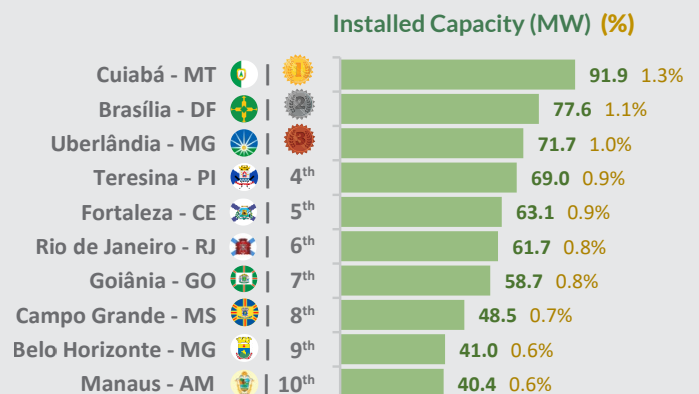
### Distributed Generation State Ranking

Source: ANEEL/ABSOLAR, 2021.



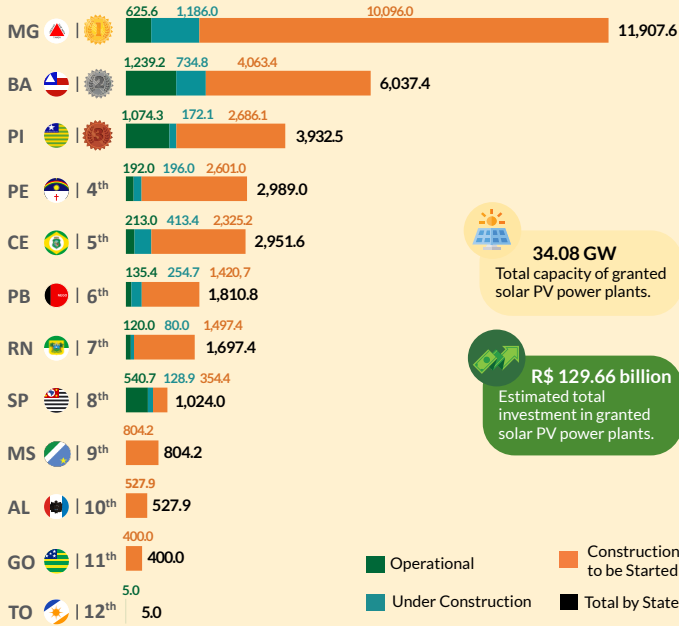
### Municipality Ranking

Source: ANEEL/ABSOLAR, 2021.



## Centralized Generation Source: ANEEL/ABSOLAR, 2021.

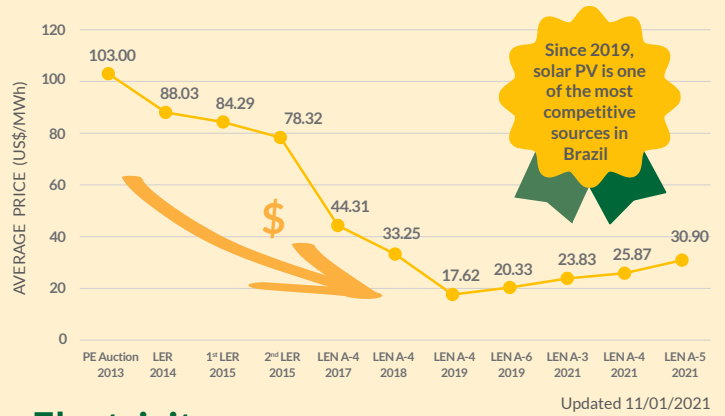
Installed capacity (MW) and status of granted solar PV power plants of the regulated market and of the free market per state:



**34.08 GW**  
Total capacity of granted solar PV power plants.

**R\$ 129.66 billion**  
Estimated total investment in granted solar PV power plants.

## Price Development of Solar PV Energy in the Energy Auctions of the Regulated Electricity Market Source: CCEE/ABSOLAR, 2021.



## Electricity Generation Records Source: ONS/MME, 2021.

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 10h52 a.m.  
equivalent to  
**4.7%**  
of the national demand at that moment

**1.6%**  
of the electricity supplied in Brazil was generated from solar PV energy in October 2021.

## Distributed Generation Source: ANEEL/ABSOLAR, 2021.

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.

**97.5%**

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.



**644,716**

Solar PV systems connected to the grid.



**808,122**

consumer units (0.9% from the total) receiving electricity credits through net-metering.

## Value Chain Source: BNDES, 2021.

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



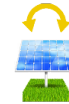
**84**

Solar PV System (kit)



**10**

Solar PV Inverter



**8**

Tracker



**7**

PV Module



**2**

Battery



**1**

String Box

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, 2021.

