

### Solar PV Energy Benefits to Brazil

Source: ABSOLAR, 2022.



Over **13.0 GW** in operation.



Over **R\$ 66.3 billion** in new investments.



Over **390 thousand** new jobs created in the country.



Over **R\$ 17.1 billion** in taxes collected.

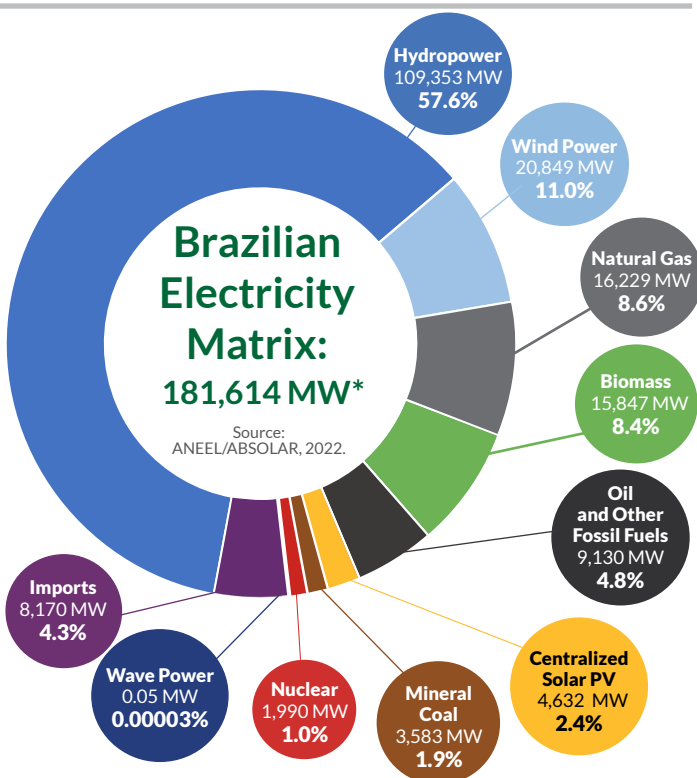
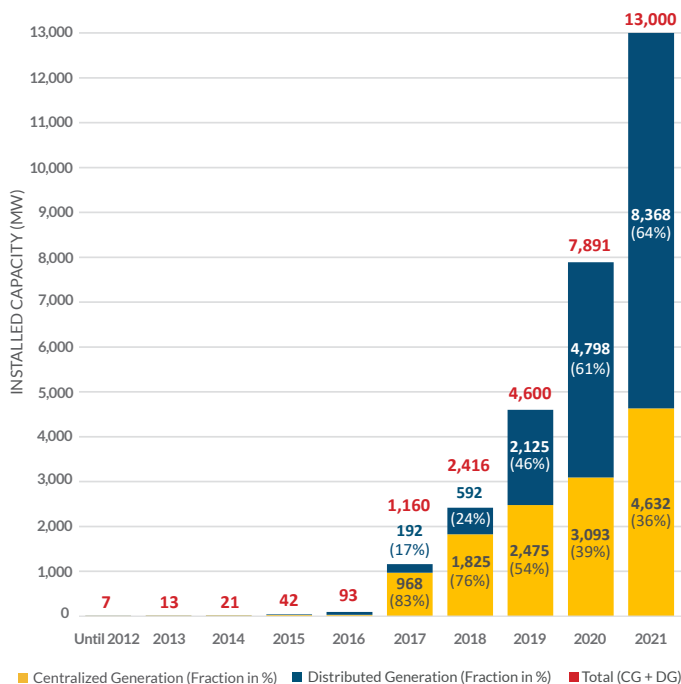


Over **17.5 million tons** of CO<sub>2</sub> avoided.

Data accumulated since 2012.

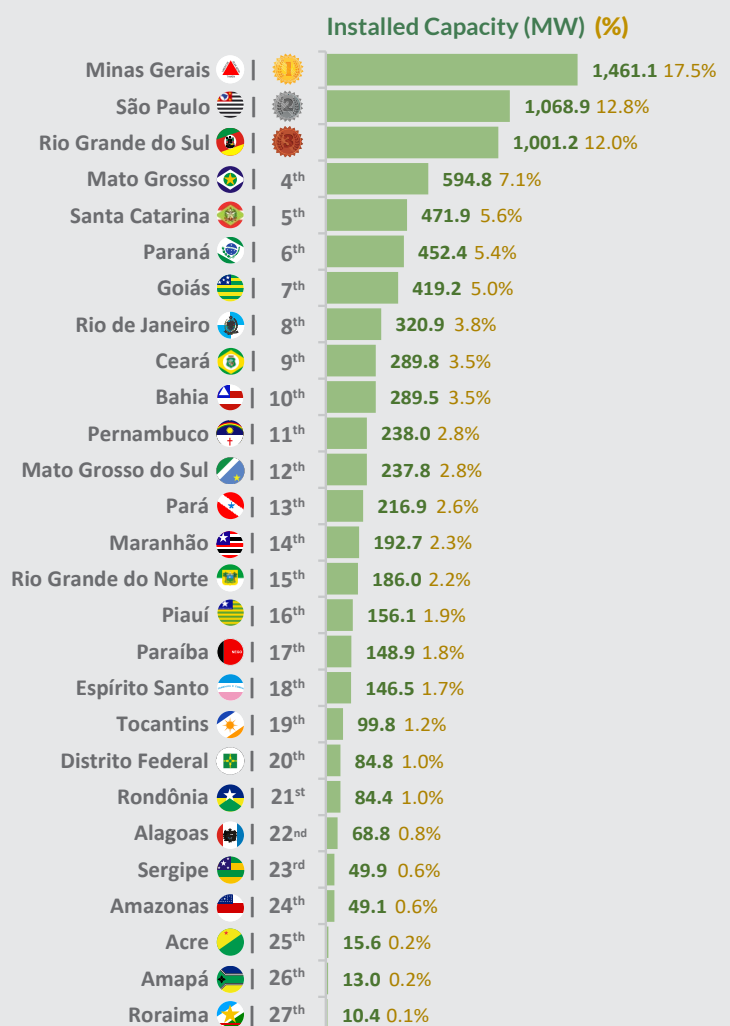
### Evolution of the Solar Photovoltaic Energy in Brazil

Source: ANEEL/ABSOLAR, 2022.



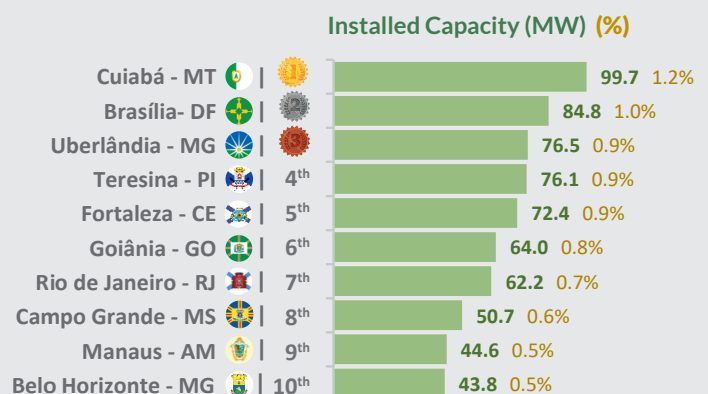
### Distributed Generation State Ranking

Source: ANEEL/ABSOLAR, 2022.



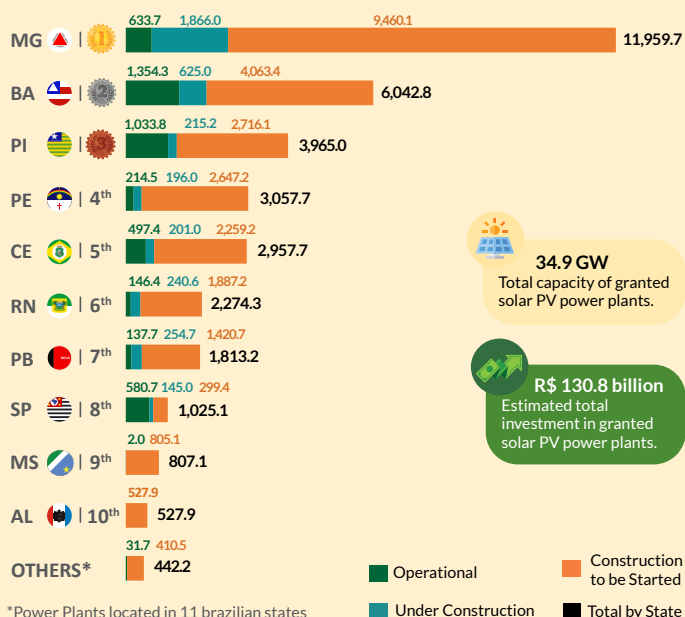
### Municipality Ranking

Source: ANEEL/ABSOLAR, 2022.

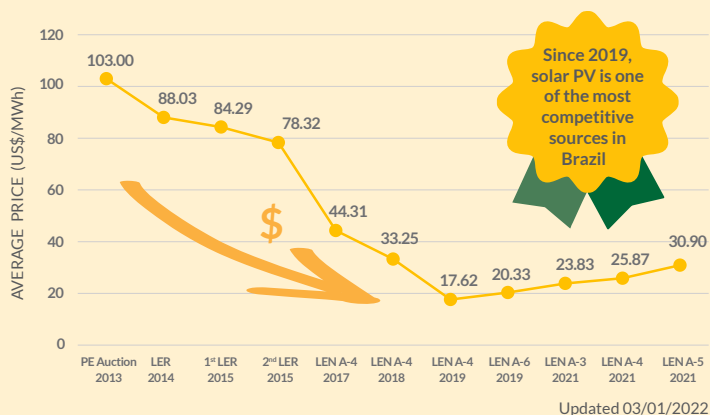


## Centralized Generation Source: ANEEL/ABSOLAR, 2022.

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



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

## 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.

**97.7%**  
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.

**744,875**  
Solar PV  
systems connected  
to the grid.

**933,268**  
consumer units  
(1.0% 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:



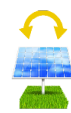
**87**

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, 2022.

