

Solar PV Energy Benefits to Brazil

Source: ABSOLAR, 2022.



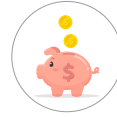
Over **14.0 GW** in operation.



Over **R\$ 74.6 billion** in new investments.



Over **420 thousand new jobs** created in the country.



Over **R\$ 21.0 billion** in taxes collected.

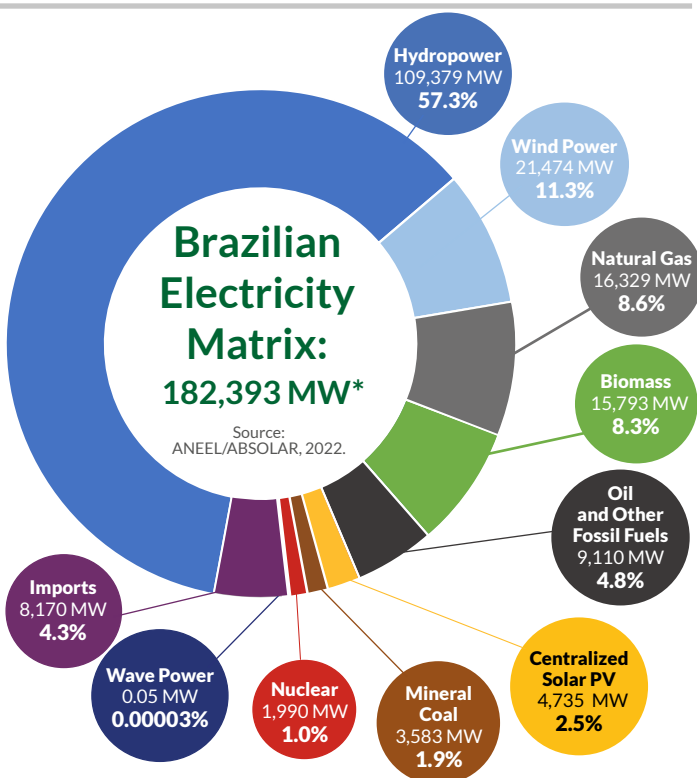
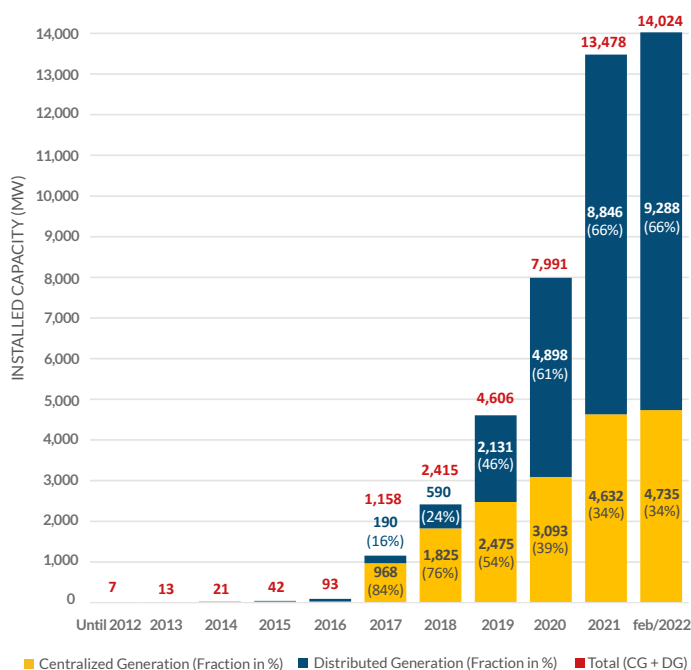


Over **19.6 million tons** of CO₂ avoided.

Data accumulated since 2012.

Evolution of the Solar Photovoltaic Energy in Brazil

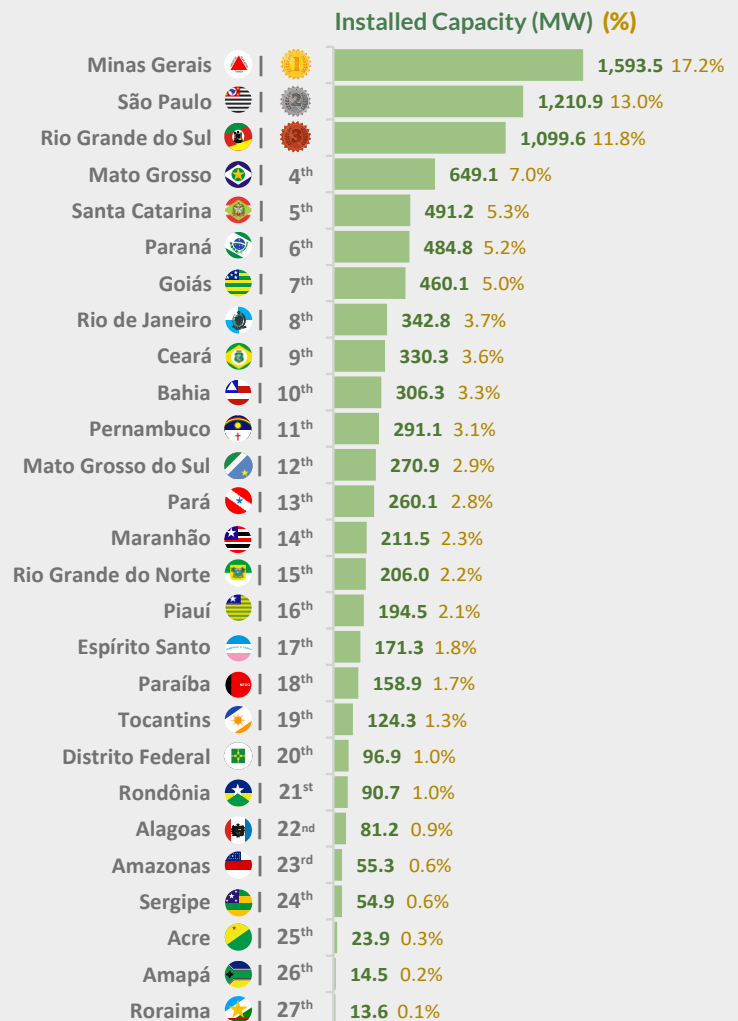
Source: ANEEL/ABSOLAR, 2022.



*The matrix total capacity does not include imports.

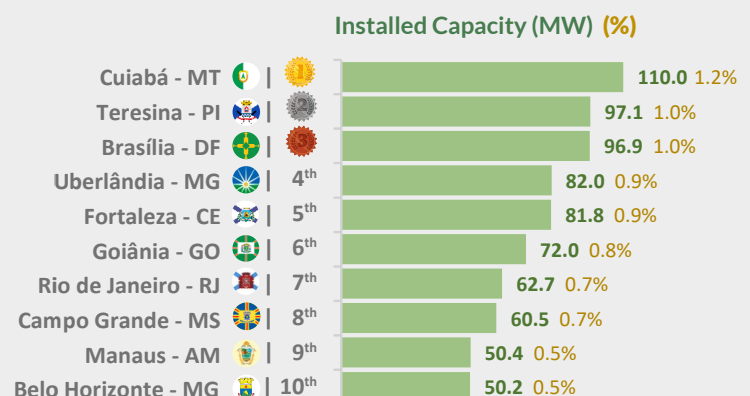
Distributed Generation State Ranking

Source: ANEEL/ABSOLAR, 2022.



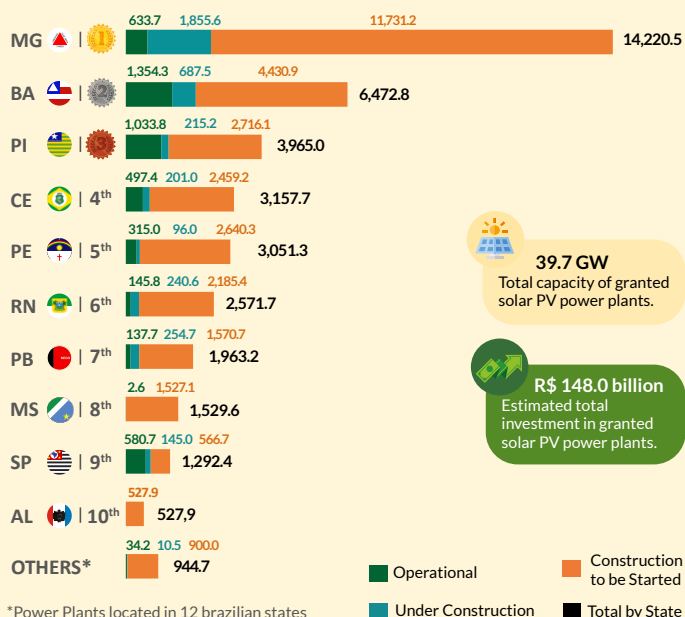
Municipality Ranking

Source: ANEEL/ABSOLAR, 2022.

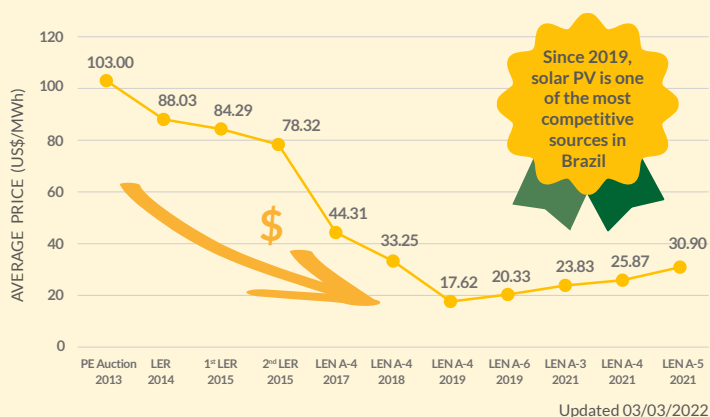


Centralized Generation Source: ANEEL/ABSOLAR, 2022.

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. 5th, 2021

1,322
MW average meeting

1.8%
of the demand for electricity in Brazil

DAILY MAXIMUM
Sep. 28th, 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.



859,951
Solar PV systems connected to the grid.



1,081,618
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:



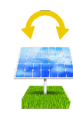
76

Solar PV System (kit)



10

Solar PV Inverter



7

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.

