



ABSOLAR

Brazilian Solar Photovoltaic Energy Association

Solar Photovoltaic Energy in Brazil ABSOLAR's Infographic

Updated on August 1st, 2021 | n° 34

Solar PV Energy Benefits to Brazil

Source: ABSOLAR, 2021.



Over 9.7 GW
in operation
since 2012.



Over R\$ 51.3 billion
in new
investments.



Over 292 thousand
new jobs created
in the country.



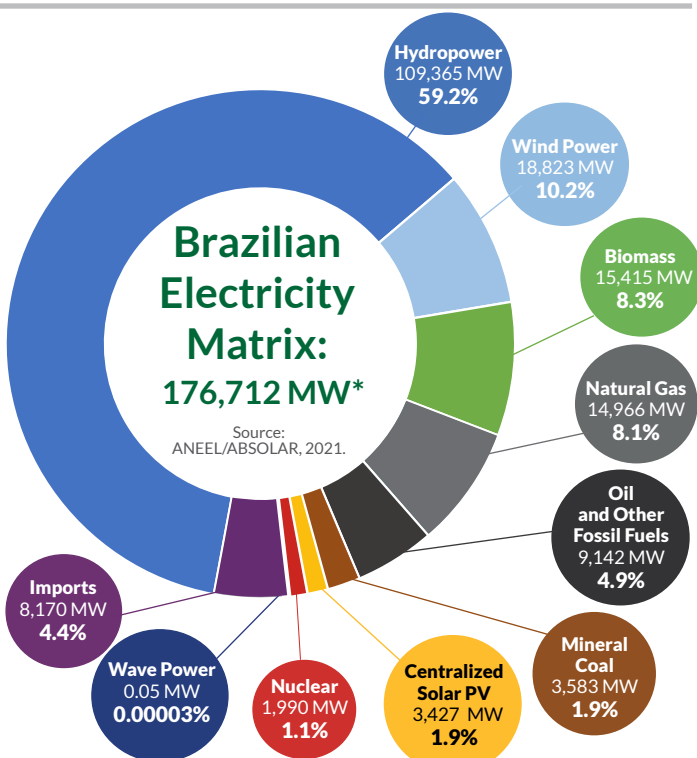
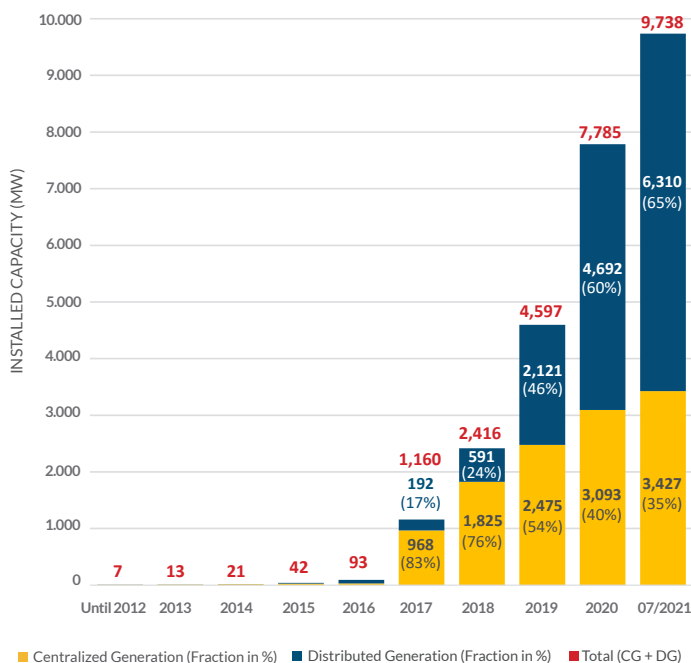
Over R\$ 14.4 billion
in taxes
collected.



Over 10.7 million tons
of CO₂ avoided.

Evolution of the Solar Photovoltaic Energy in Brazil

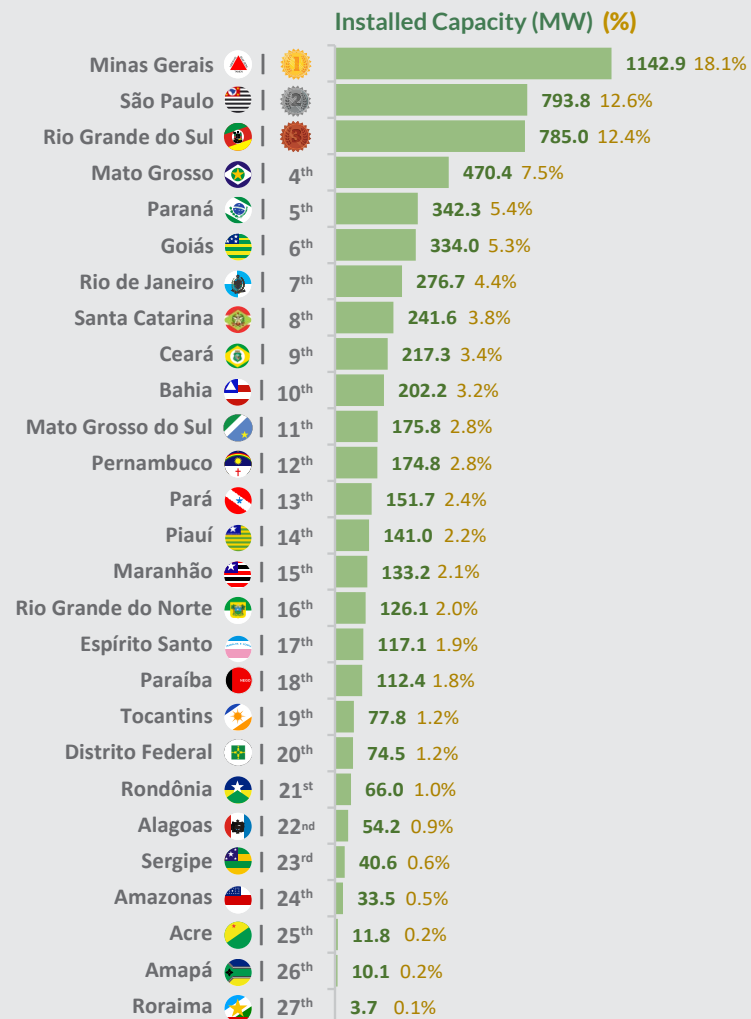
Source: ANEEL/ABSOLAR, 2021.



*The matrix total capacity does not include imports.

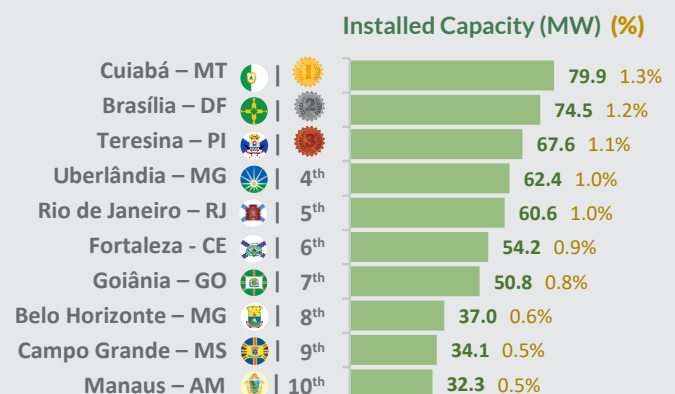
Distributed Generation State Ranking

Source: ANEEL/ABSOLAR, 2021.



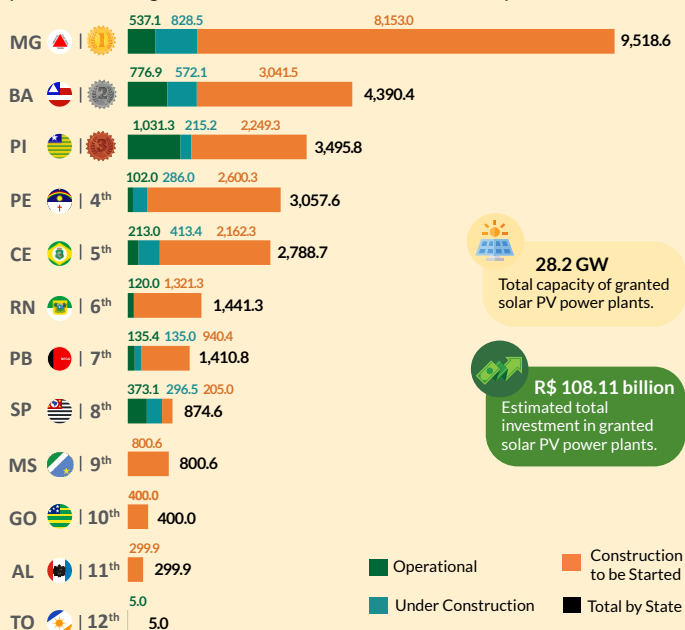
Municipality Ranking

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:



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.

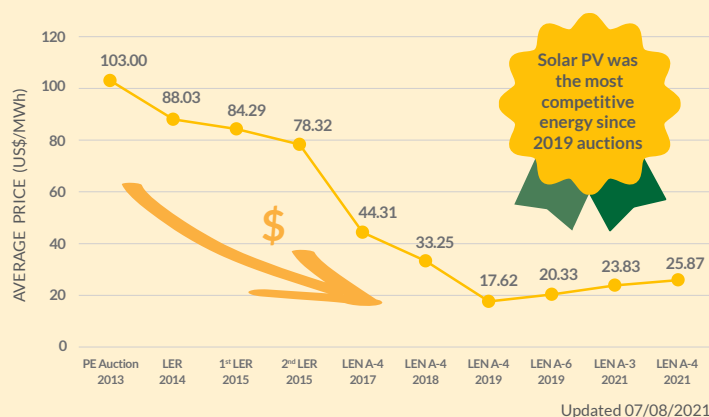
96.7%
is the share of solar PV installed capacity in distributed microgeneration and minigeneration, leading the segment by far.

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

549,000
Solar PV systems connected to the grid.

690,483
consumer units
(0.8% from the total)
receiving electricity credits through net-metering.

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
Jun. 28th, 2021
838.32 MW
average
with a capacity factor of
28.28%

DAILY MAXIMUM
Jun. 30th, 2021
2,249.97 MW
at 11 a.m.
with instantaneous capacity factor of
75.9%

1.4%
of the electricity supplied in Brazil was generated from solar PV energy in September 2020.

Value Chain Source: BNDES, 2021.

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



Data updated in accordance with the new BNDES re-accreditation procedure with the FINAME.

Solar PV Distributed Generation by Consumer Type in Brazil Source: ANEEL/ABSOLAR, 2021.

