

Updated on September 1st, 2021 | n. 35

Solar PV Energy Benefits to Brazil

Source: ABSOLAR, 2021.



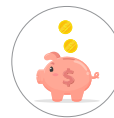
Over **10.4 GW**
in operation.



Over **R\$ 54.1**
billion in new
investments.



Over **312 thousand**
new jobs created
in the country.



Over **R\$ 14.6**
billion in taxes
collected.

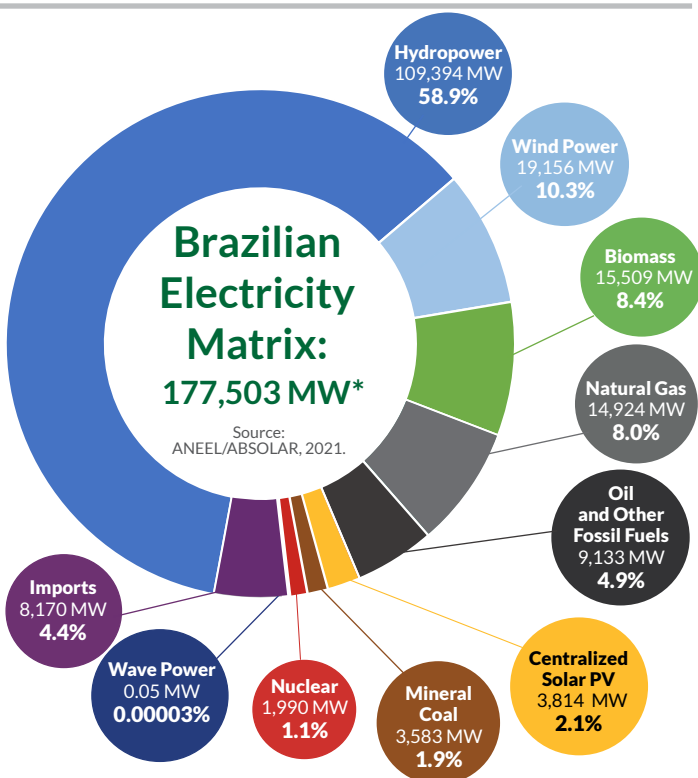
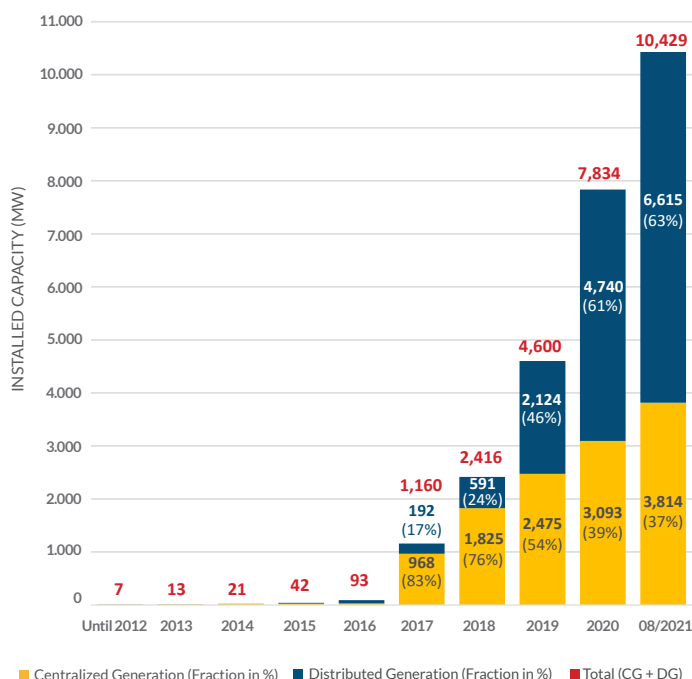


Over **11.3**
million tons
of CO₂ avoided.

Data accumulated since 2012.

Evolution of the Solar Photovoltaic Energy in Brazil

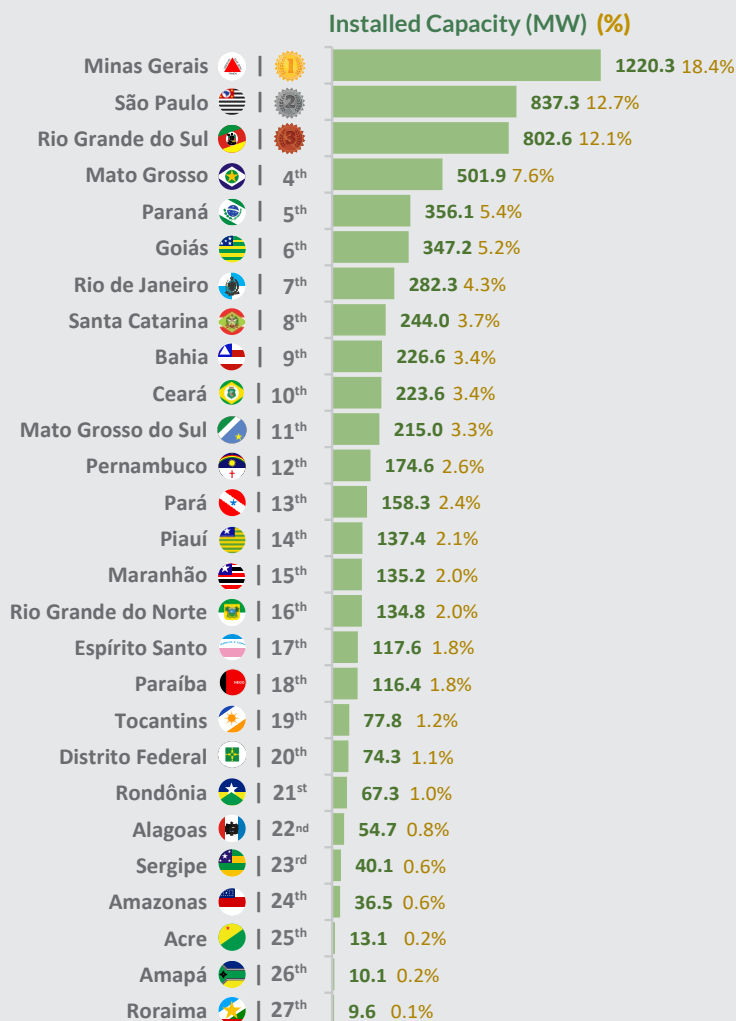
Source: ANEEL/ABSOLAR, 2021.



*The matrix total capacity does not include imports.

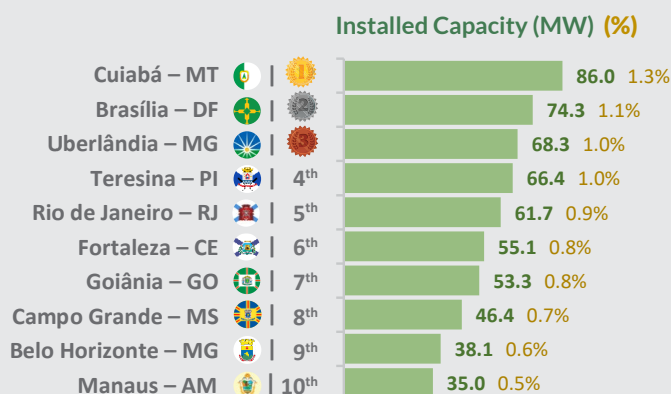
Distributed Generation State Ranking

Source: ANEEL/ABSOLAR, 2021.



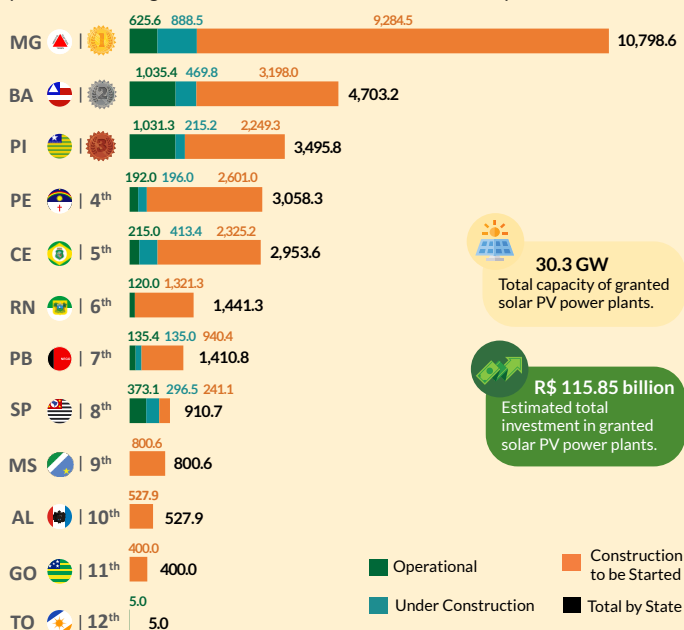
Municipality Ranking

Source: ANEEL/ABSOLAR, 2021.

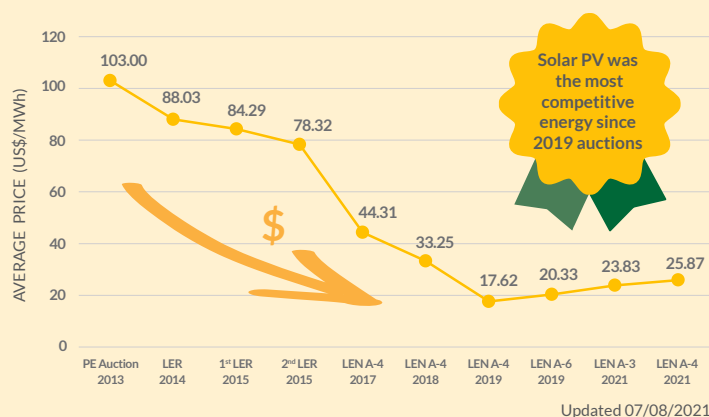


Centralized Generation Source: ANEEL/ABSOLAR, 2021.

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



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.

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.

96.9%
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.

576,086
Solar PV systems connected to the grid.

720,200
consumer units
(0.8% 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:



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.

