



ABSOLAR

Brazilian Solar Photovoltaic Energy Association

Solar Photovoltaic Energy in Brazil ABSOLAR's Infographic

Updated on July 1st, 2021 | n° 33

Solar PV Energy Benefits to Brazil

Source: ABSOLAR, 2021.



Over 9.4 GW
in operation
since 2012.



Over R\$ 49.8 billion
in new
investments.



Over 283 thousand
new jobs created
in the country.



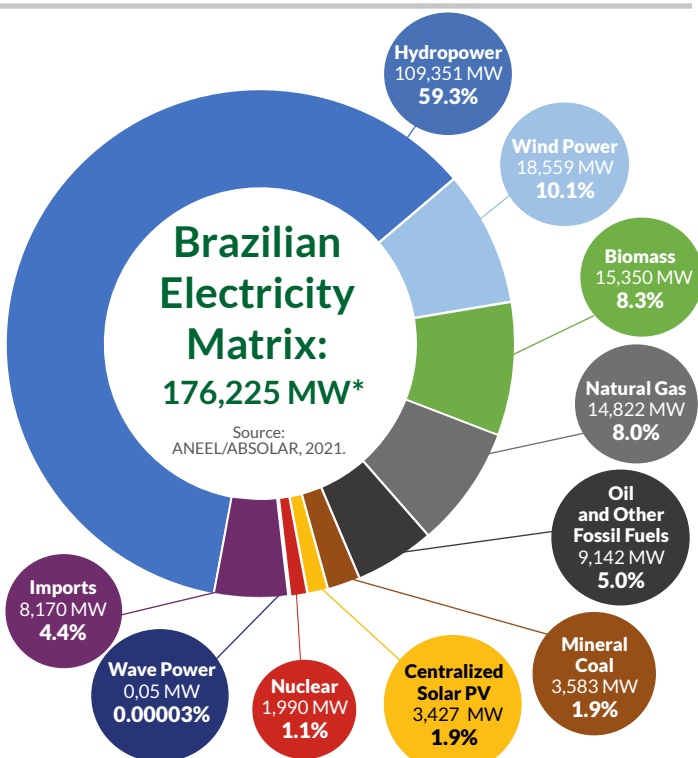
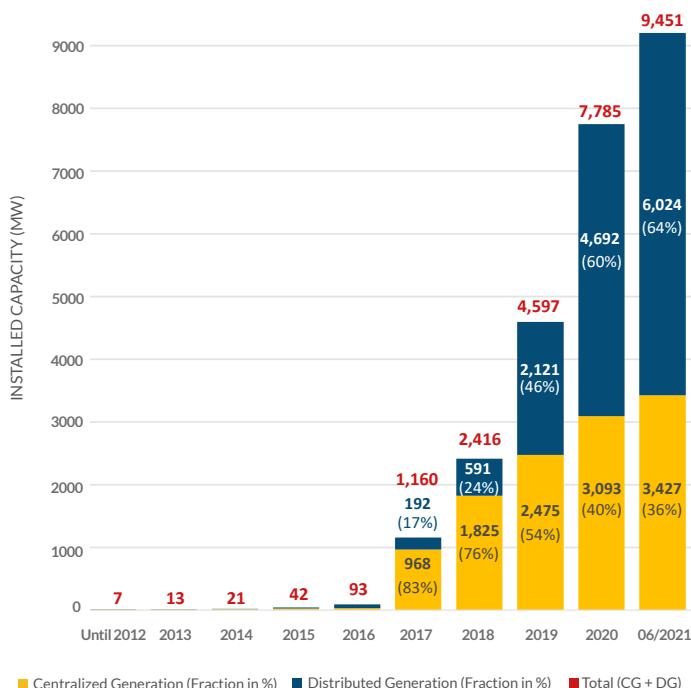
Over R\$ 15.7 billion
in taxes
collected.



Over 10.3 million tons
of CO₂ avoided.

Evolution of the Solar Photovoltaic Energy in Brazil

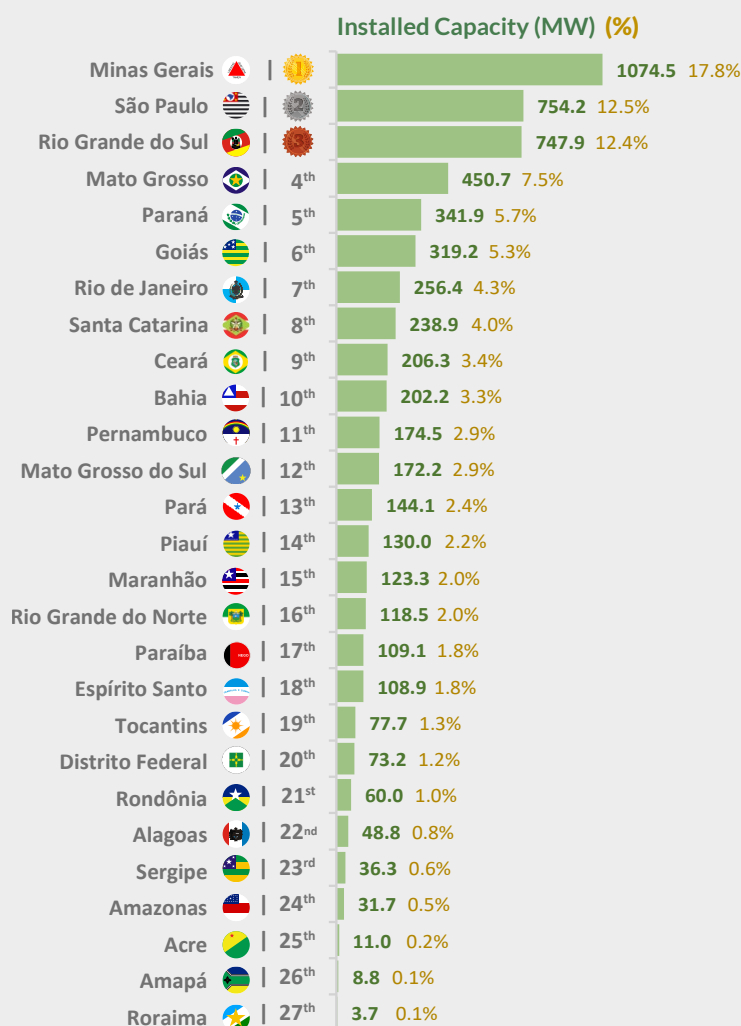
Source: ANEEL/ABSOLAR, 2021.



*The matrix total capacity does not include imports.

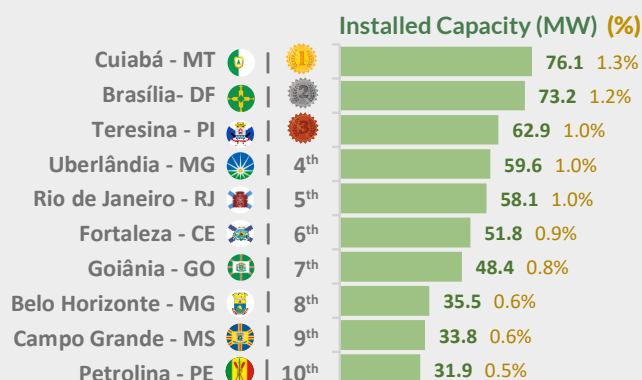
Distributed Generation State Ranking

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.

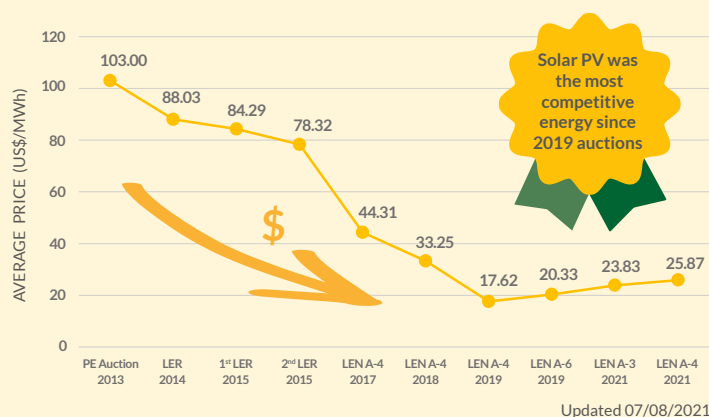
96.7%
is the share of solar PV installed capacity in distributed microgeneration and minigeneration, leading the segment by far.

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

520,596
Solar PV systems connected to the grid.

655,348
consumer units
(0.7% 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:

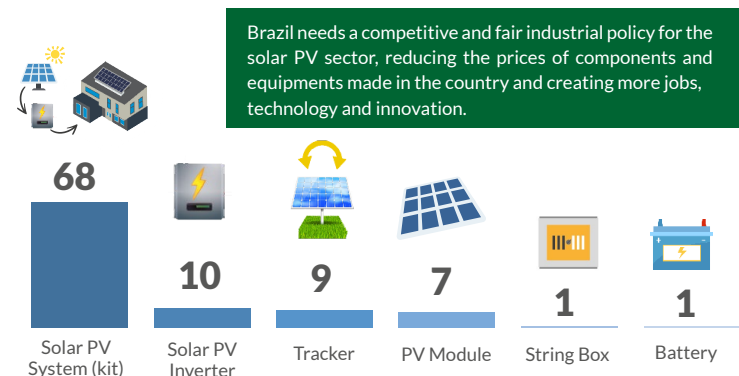
DAILY AVERAGE
May. 25th, 2021
819.2 MW
average
with a capacity
factor of
28.2%

DAILY MAXIMUM
May. 20th, 2021
2,245.9 MW
at 11 a.m.
with instantaneous
capacity factor of
77.4%

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.

