



ABSOLAR

Brazilian Solar Photovoltaic Energy Association

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Solar Photovoltaic Energy in Brazil

ABSOLAR's Infographic

Solar PV Energy Benefits to Brazil

Source: ABSOLAR, 2021.



Over **10.8 GW** in operation.



Over **R\$ 56.4 billion** in new investments.



Over **325 thousand new jobs** created in the country.



Over **R\$ 15.1 billion** in taxes collected.

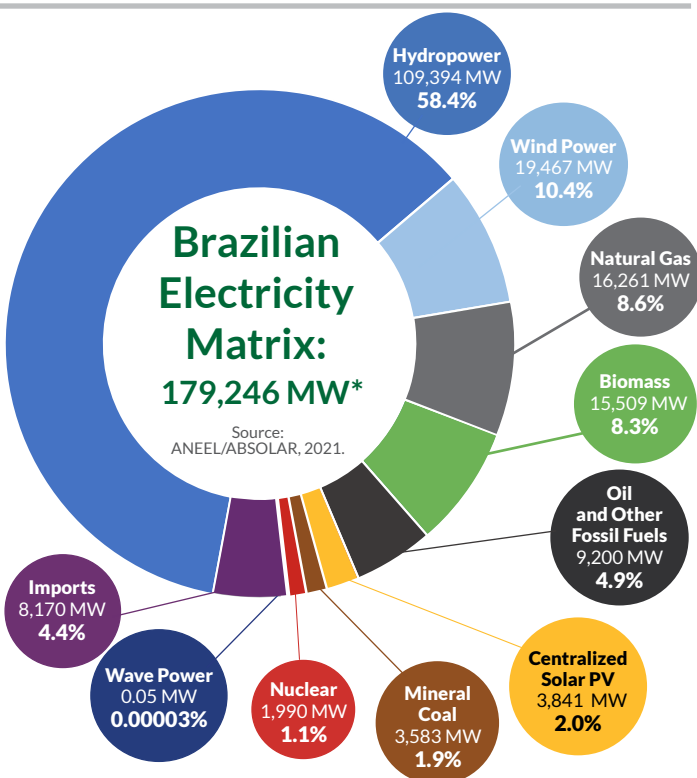
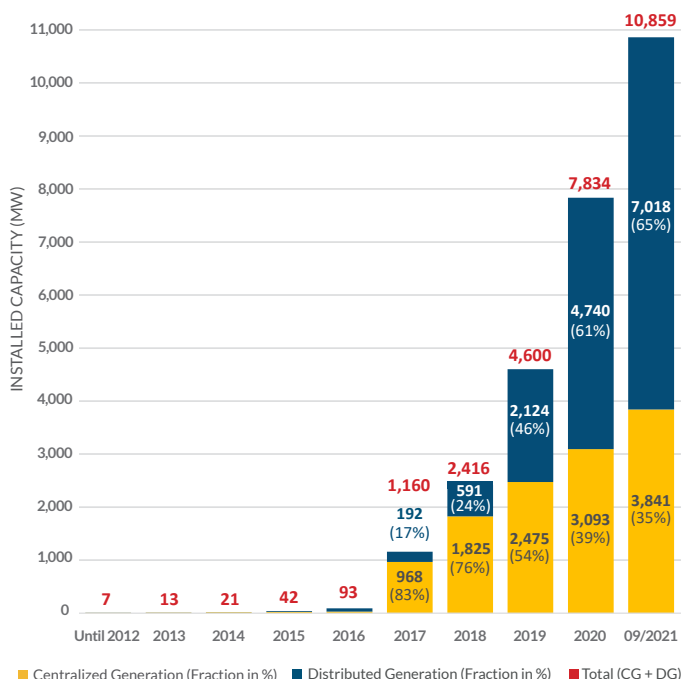


Over **12.4 million tons** of CO₂ avoided.

Data accumulated since 2012.

Evolution of the Solar Photovoltaic Energy in Brazil

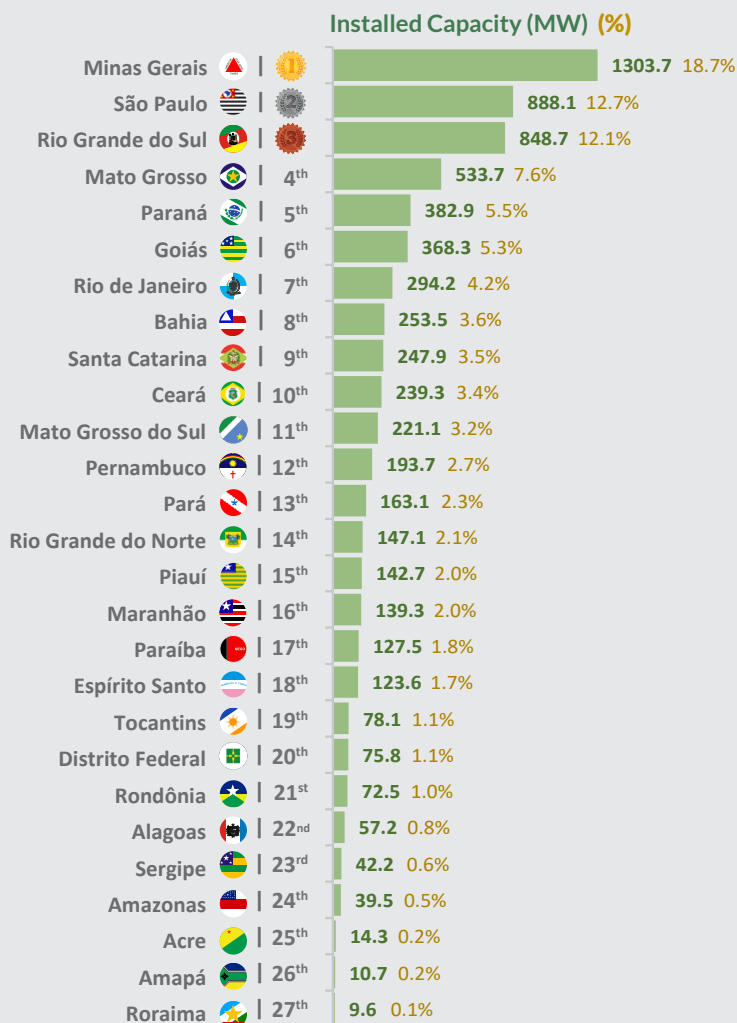
Source: ANEEL/ABSOLAR, 2021.



*The matrix total capacity does not include imports.

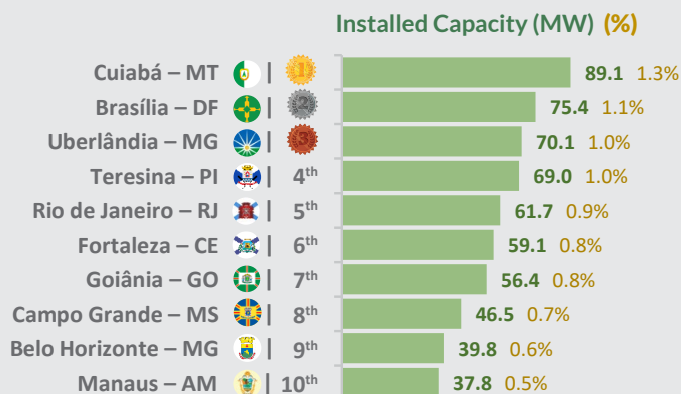
Distributed Generation State Ranking

Source: ANEEL/ABSOLAR, 2021.



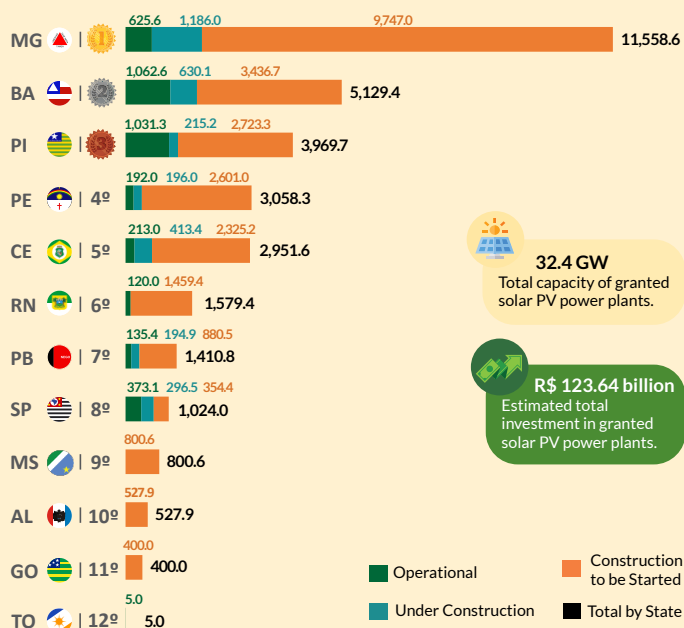
Municipality Ranking

Source: ANEEL/ABSOLAR, 2021.



Centralized Generation Source: ANEEL/ABSOLAR, 2021.

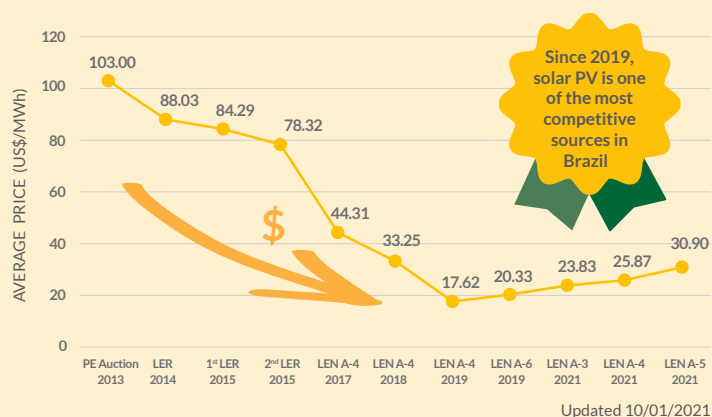
Installed capacity (MW) and status of granted solar PV power plants of the regulated market and of the free market per state:



32.4 GW
Total capacity of granted solar PV power plants.

R\$ 123.64 billion
Estimated total investment in granted solar PV power plants.

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
Aug. 2nd, 2021

893.87
MW average
with a capacity
factor of
27.50%

DAILY MAXIMUM
Aug. 26th, 2021

2,592.15 MW
at 12 a.m.
with instantaneous
capacity factor of
79.76%

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

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.

97.4%
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.

611,502
Solar PV systems connected to the grid.

765,624
consumer units
(0.9% 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:



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.

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.

