



Updated on January 5th, 2021 | n° 27

Solar PV Energy Benefits to Brazil

Source: ABSOLAR, 2021.



Over 7.4 GW in operation since 2012.



Over R\$ 38.2 billion in new investments.



Over 224 thousand new jobs created in the country.



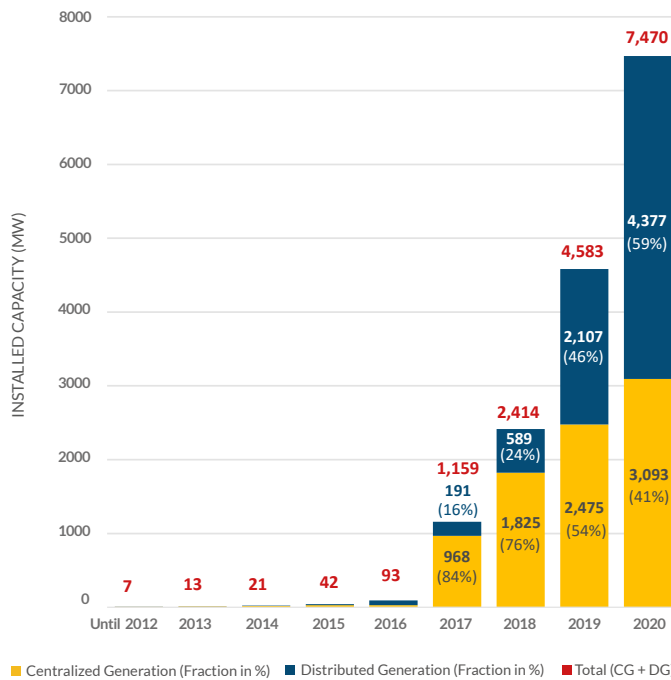
Over R\$ 11.3 billion in taxes collected.



Over 1.1 million tons of CO₂ avoided.

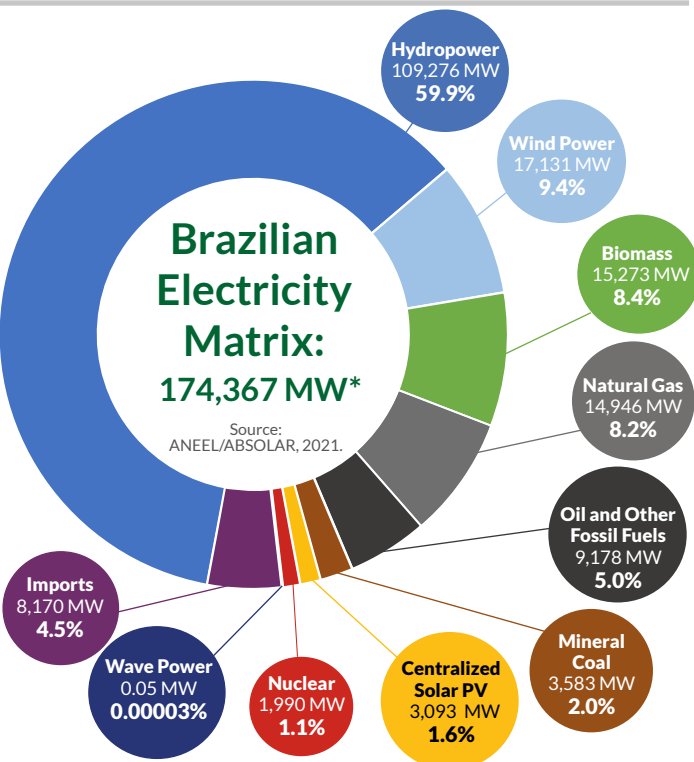
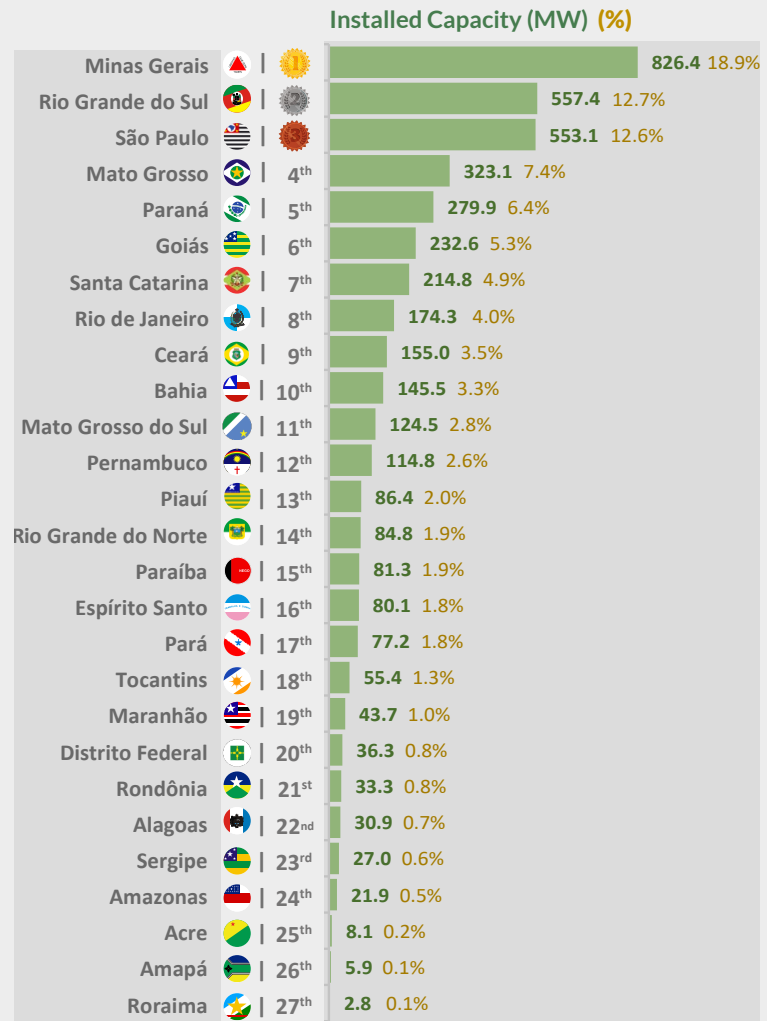
Evolution of the Solar Photovoltaic Energy in Brazil

Source: ANEEL/ABSOLAR, 2021.



Distributed Generation State Ranking

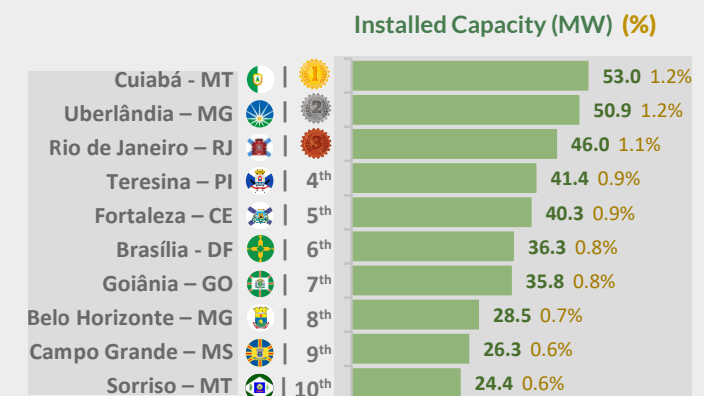
Source: ANEEL/ABSOLAR, 2021.



*The matrix total capacity does not include imports.

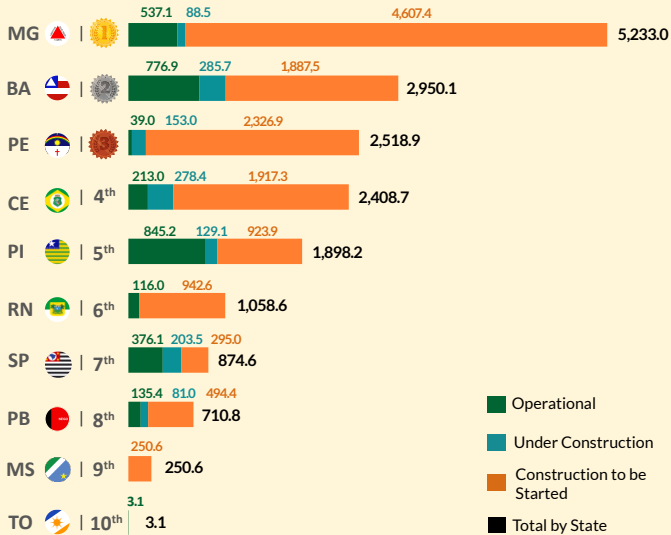
Municipality Ranking

Source: ANEEL/ABSOLAR, 2021.

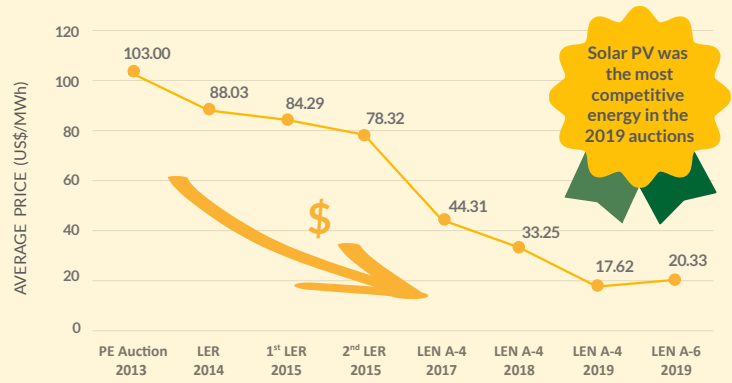


Centralized Generation Source: ANEEL/ABSOLAR, 2021.

Installed capacity (MW) and status of the authorized 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, 2019.



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
Oct. 3rd, 2020
778.0 MW
average
with a capacity
factor of
26.9%

DAILY MAXIMUM
Apr. 3rd, 2020
2,073.1 MW
at 10 a.m.
with instantaneous
capacity factor of
76.0%

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.

97.0%
is the share of solar PV
installed capacity in distributed
microgeneration and
minigeneration, leading the
segment by far.

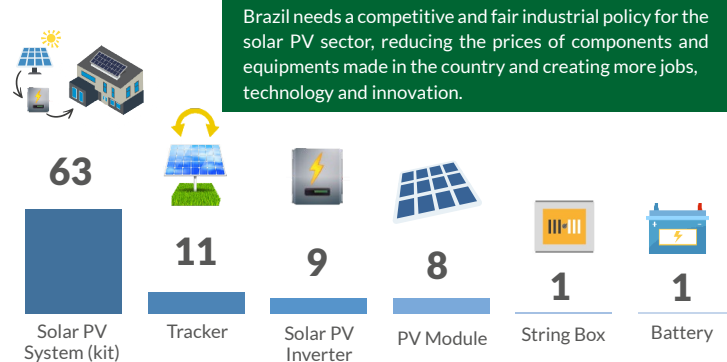
99.9%
of all distributed micro and
minigeneration connections
are from solar PV systems.

365,610
Solar PV
systems connected
to the grid.

464,789
consumer units
(0.5% 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.

The Global Solar PV Market

Which countries invested the most in solar PV energy in 2019?

Annual Installed Capacity:

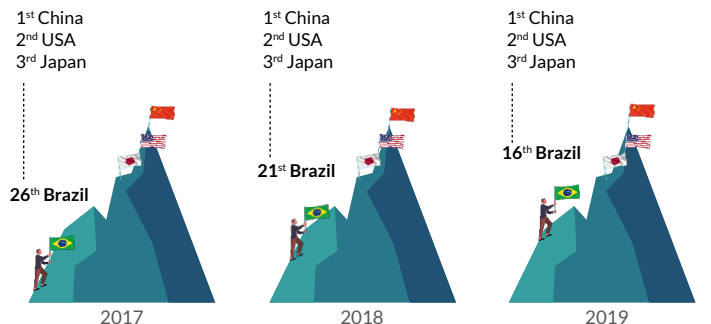
1 st China	30.1 GW
(2) European Union	16.0 GW
2 nd USA	13.3 GW
3 rd India	9.9 GW
4 th Japan	7.0 GW
5 th Vietnam	4.8 GW
12 th Brazil	2.1 GW

Cumulative Installed Capacity:

1 st China	204.7 GW
(2) European Union	137.7 GW
2 nd USA	75.9 GW
3 rd Japan	63.0 GW
4 th Germany	49.2 GW
5 th India	42.8 GW
16 th Brazil	4.5 GW

Source: ABSOLAR, 2020. | IEA PVPS, 2020. | IRENA, 2020.

Brazil's Evolution in the World Ranking



Source: ABSOLAR, 2020. | IEA PVPS, 2018-2020. | IRENA, 2020.