



ABSOLAR

Brazilian Solar Photovoltaic Energy Association

Solar Photovoltaic Energy in Brazil ABSOLAR's Infographic

Updated on November 24th, 2020 | n° 25

Solar PV Source Benefits to Brazil

Source: ABSOLAR, 2020.



Over 7.0 GW
in operation
since 2012.



Over R\$ 35.4 billion
in new
investments.



Over 210 thousand
new jobs created
in the country.



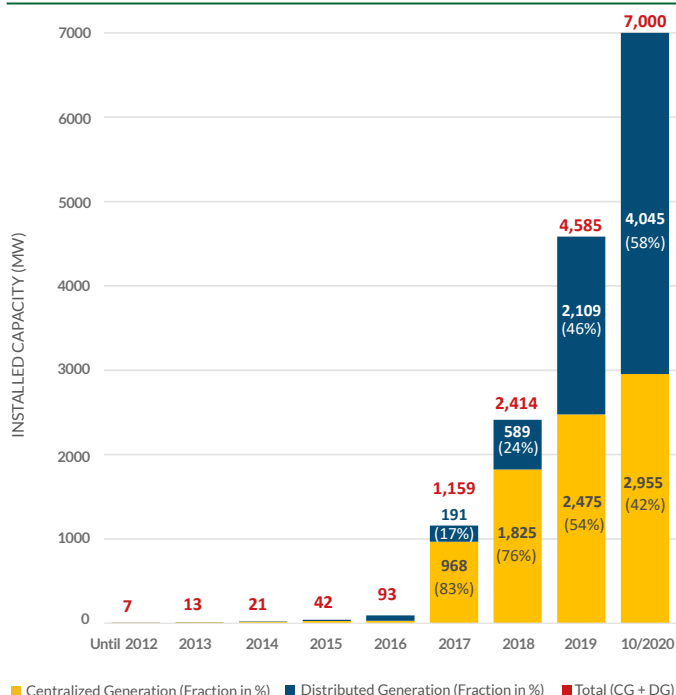
Over R\$ 10.4 billion
in taxes
collected.



Over 1.1 million tons
of CO₂ avoided.

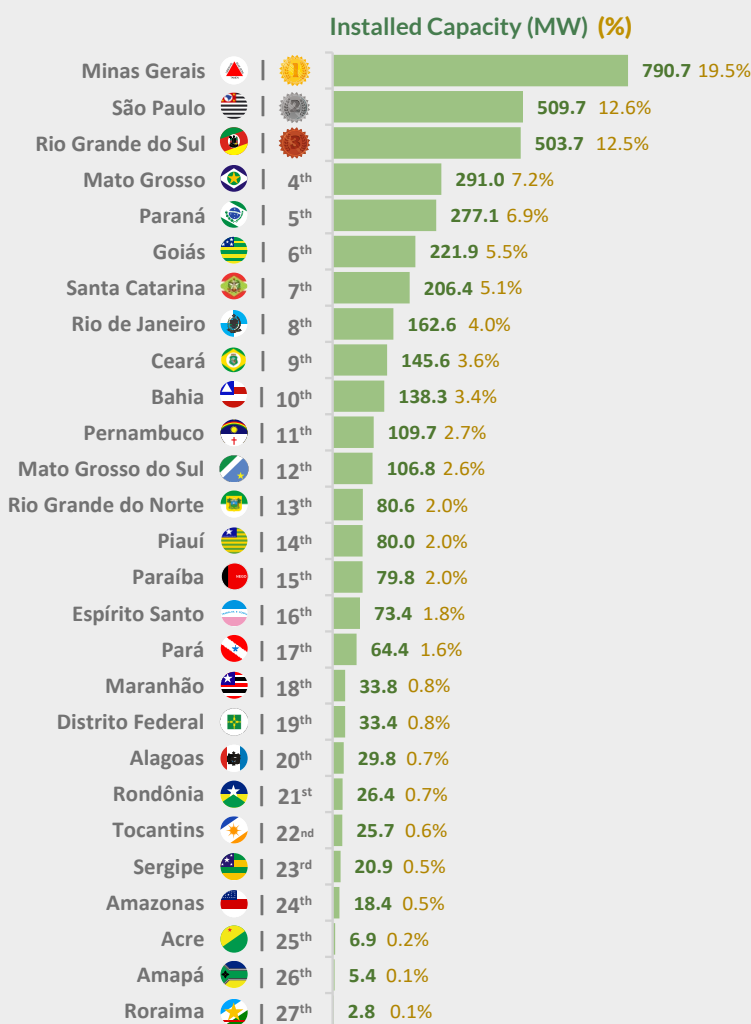
Evolution of the Solar Photovoltaic Energy in Brazil

Source: ANEEL/ABSOLAR, 2020.



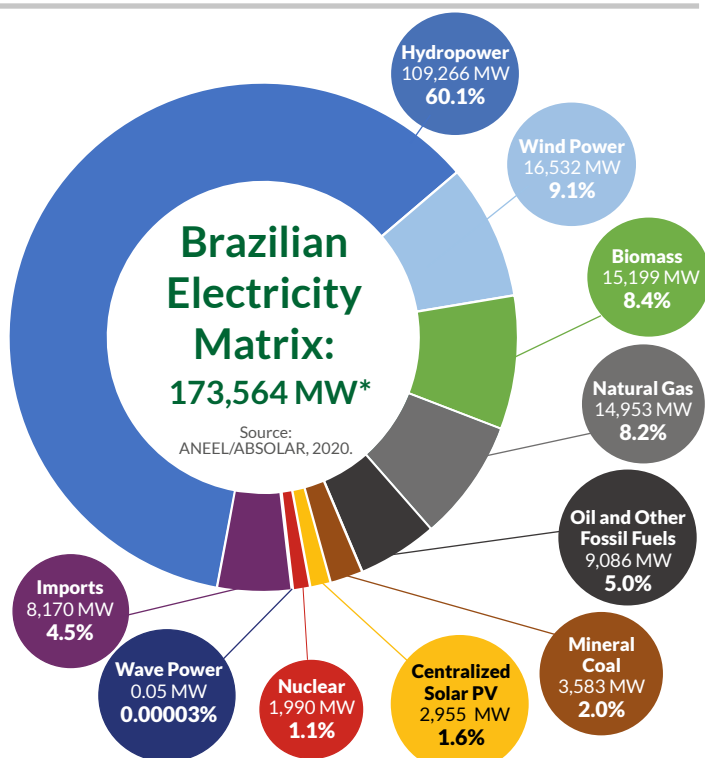
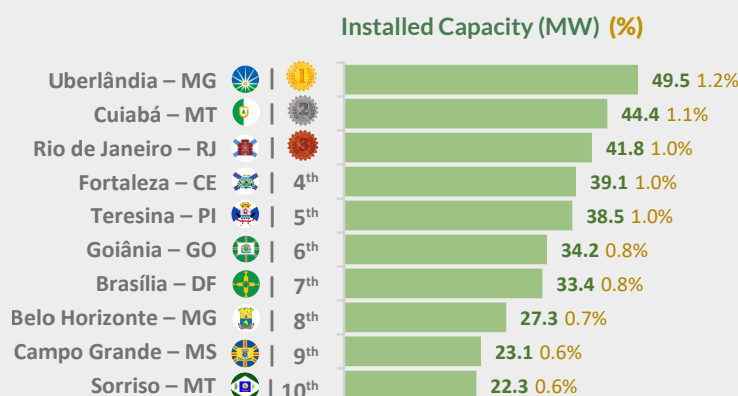
Distributed Generation State Ranking

Source: ANEEL/ABSOLAR, 2020.



Municipality Ranking

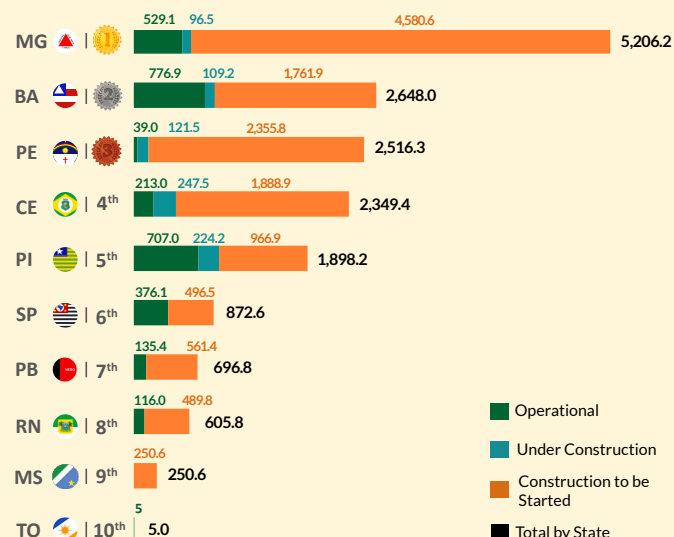
Source: ANEEL/ABSOLAR, 2020.



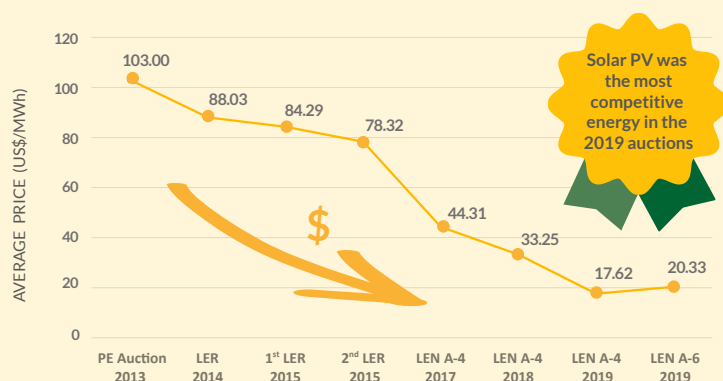
*The matrix total capacity does not include imports.

Centralized Generation Source: ANEEL/ABSOLAR, 2020.

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, 2020.

Solar PV achieved new records of electricity generation on the SIN (National Grid System) in Brazil:

DAILY AVERAGE
Set. 06th, 2020

774.9 MW
average
with a capacity
factor of
26.8%

DAILY MAXIMUM
Apr. 03rd, 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, 2020.

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.

333,536

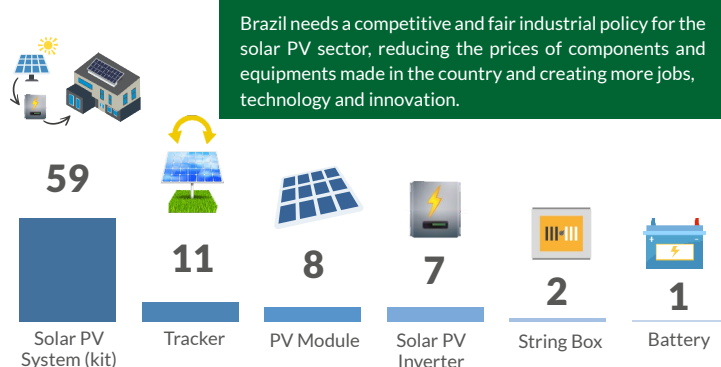
Solar PV systems connected to the grid.

415,510

consumer units
(0.5% from the total)
receiving electricity credits through net-metering.

Value Chain Source: BNDES, 2020.

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.

The Global Solar PV Market

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

Annual Installed Capacity:

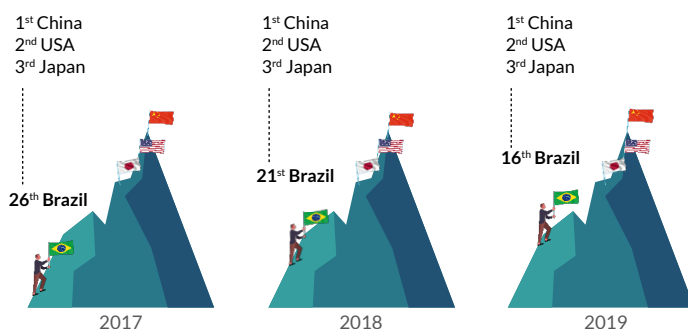
	1 st China	30.1 GW
	(2) European Union	16.0 GW
	2 nd USA	13.3 GW
	3 rd India	9.9 GW
	4 th Japan	7.0 GW
	5 th Vietnam	4.8 GW
	12 th Brazil	2.1 GW

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.