



ABSOLAR

Brazilian Solar Photovoltaic Energy Association

Solar Photovoltaic Energy in Brazil ABSOLAR's Infographic

Updated on September 1st, 2020 | n° 23

Solar PV Source Benefits to Brazil

Source: ABSOLAR, 2020.



Over **6.4 GW**
in operation
since 2012.



Over **R\$ 33.1 billion**
in new
investments.



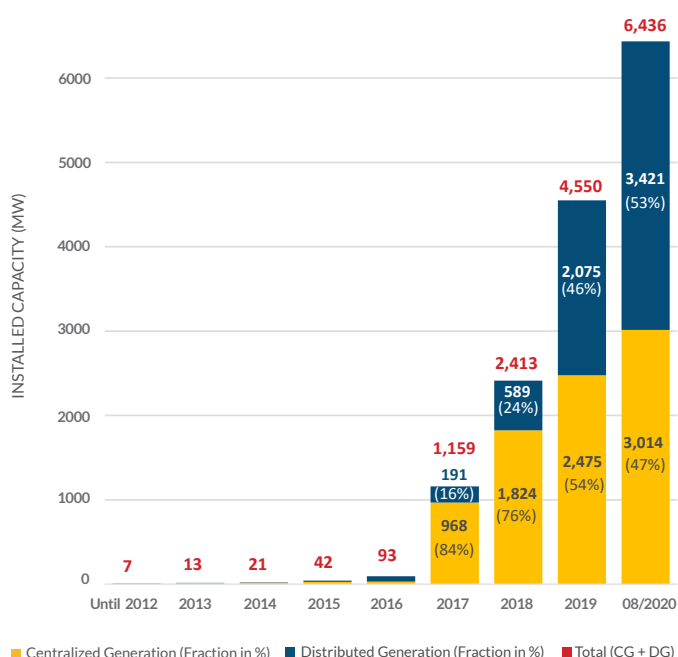
Over **190 thousand**
new jobs created in
the country.



Over **R\$ 9.6 billion**
in taxes collected by
public authorities.

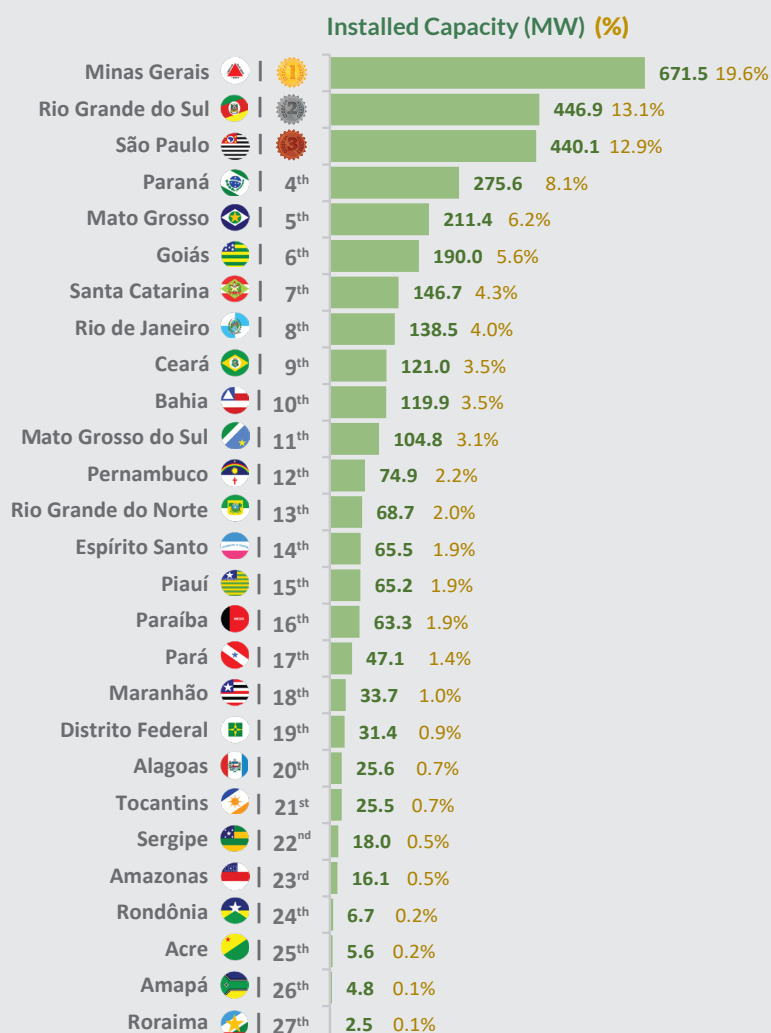
Evolution of the Solar Photovoltaic Energy in Brazil

Source: ANEEL/ABSOLAR, 2020.



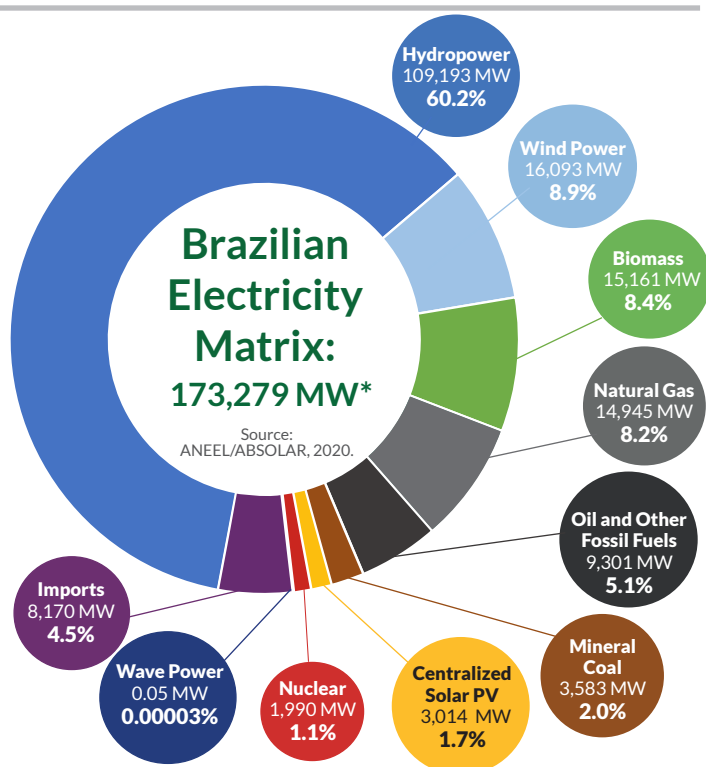
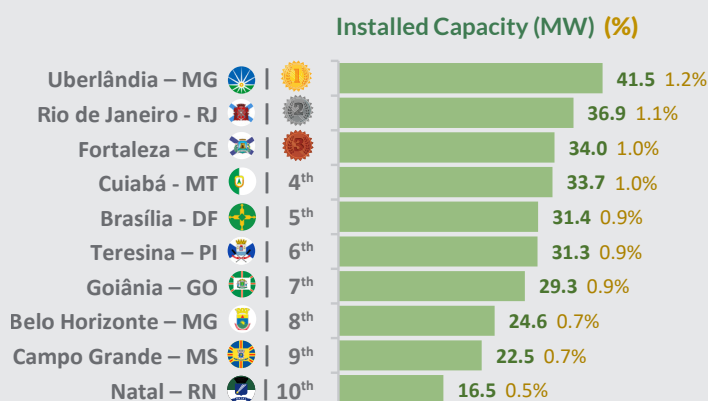
Distributed Generation State Ranking

Source: ANEEL/ABSOLAR, 2020.



Municipality Ranking

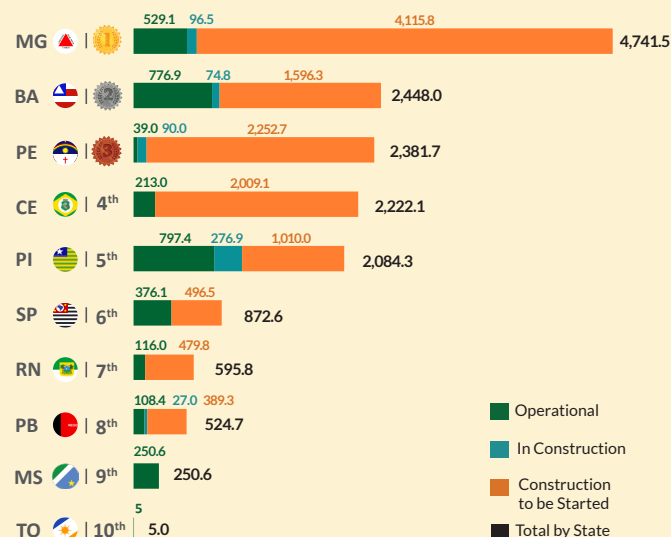
Source: ANEEL/ABSOLAR, 2020.



*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:



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.



94.8%

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.



285,366

Solar PV systems connected to the grid.



356,190

consumer units (0.4% from the total) receiving electricity credits through net-metering.

The Global Solar PV Market

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

Added capacity:

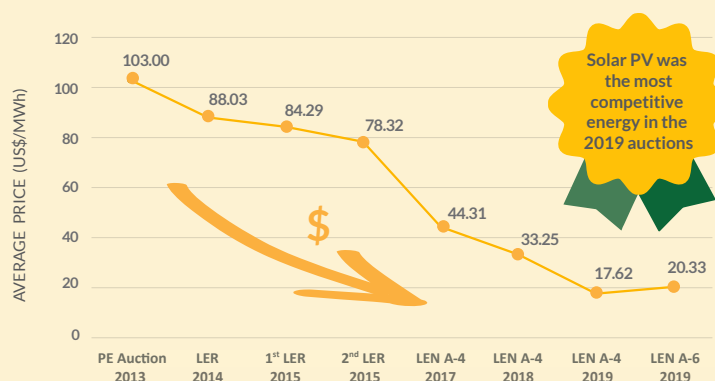
	1 st China	30.1 GW
	(2) European Union	16.0 GW
	2 nd USA	13.3 GW
	3 rd India	9.9 GW
	4 th Japan	7.0 GW
	5 th Vietnam	4.8 GW
	12 th Brazil	2.1 GW

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.

Price Development of Solar PV Energy in the Energy Auctions of the Regulated Electricity Market Source: CCEE/ABSOLAR, 2019.



Solar PV was the most competitive energy in the 2019 auctions

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
Apr. 03rd, 2020

753.1 MW
average
with a capacity
factor of
27.6%

DAILY MAXIMUM
Apr. 03rd, 2020

2,073.1 MW
at 10 a.m.
with instantaneous
capacity factor of
76.0%

1.1%

of the electricity supplied in Brazil was generated from solar PV energy in May 2020.

Value Chain Source: BNDES, 2020.

Number of national manufacturers from the solar PV sector registered at the BNDES FINAME financing program:



34

Solar PV System (kit)



12

Tracker



8

PV Module



7

Solar PV Inverter

1

String Box

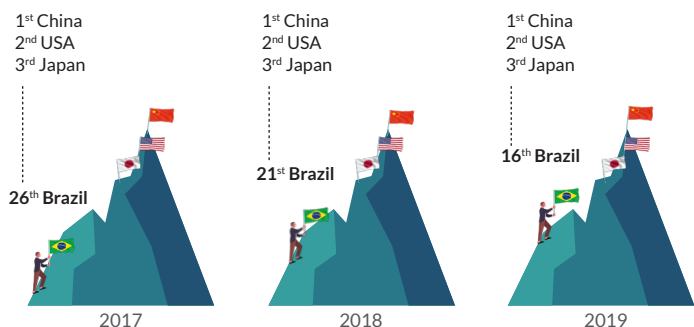
1

Battery

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.

Brazil's Evolution in the World Ranking



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