



Updated on October 1st, 2020 | n° 24

Solar PV Source Benefits to Brazil

Source: ABSOLAR, 2020.



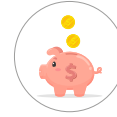
Over **6.7 GW** in operation since 2012.



Over **R\$ 34.3 billion** in new investments.



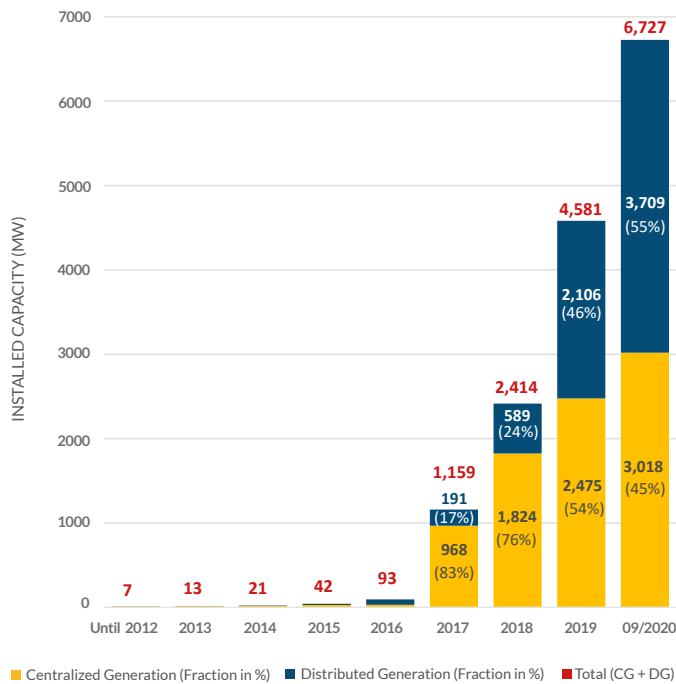
Over **201 thousand new jobs** created in the country.



Over **R\$ 10.1 billion** in taxes collected by public authorities.

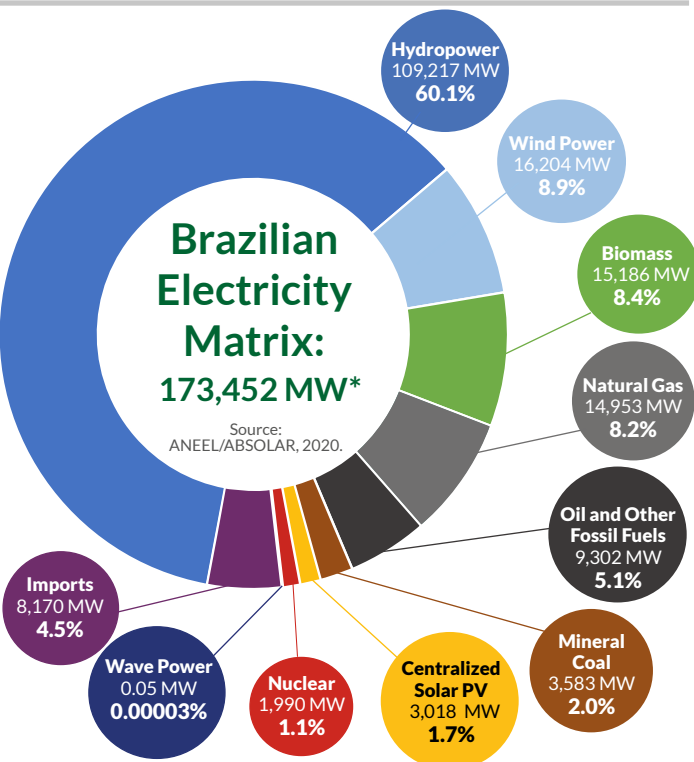
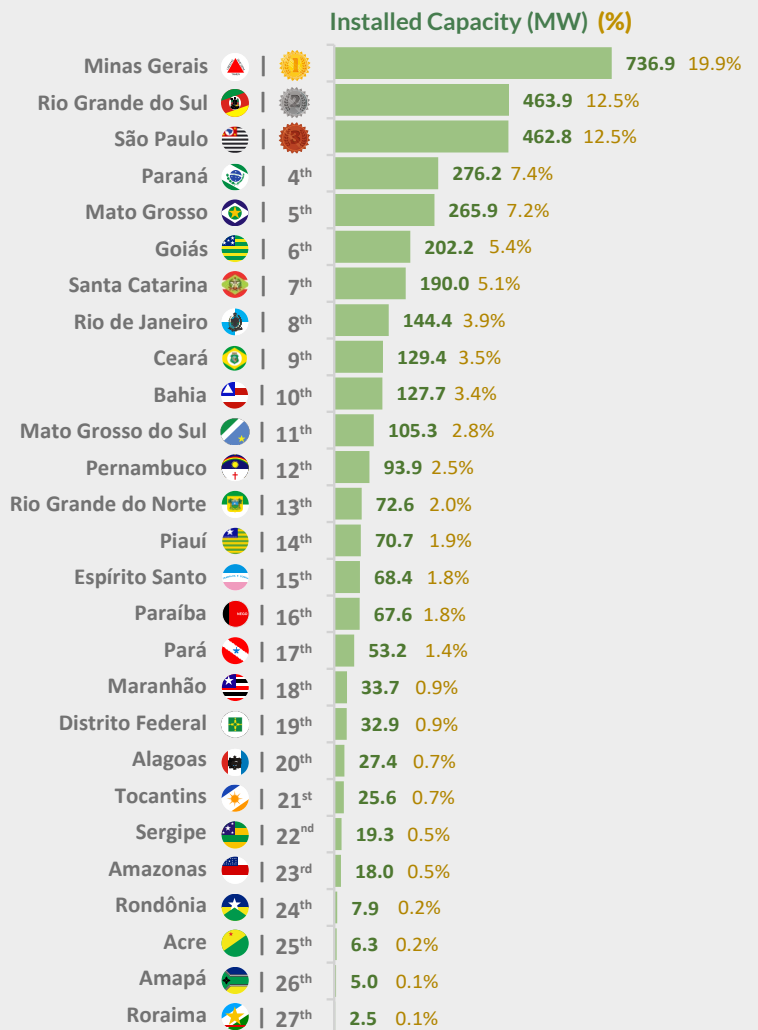
Evolution of the Solar Photovoltaic Energy in Brazil

Source: ANEEL/ABSOLAR, 2020.



Distributed Generation State Ranking

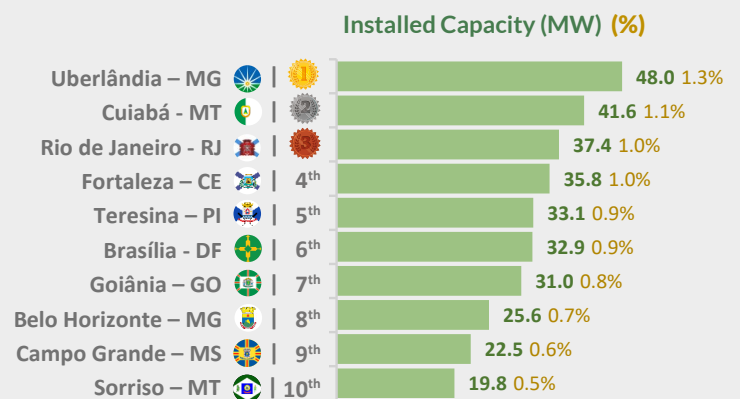
Source: ANEEL/ABSOLAR, 2020.



*The matrix total capacity does not include imports.

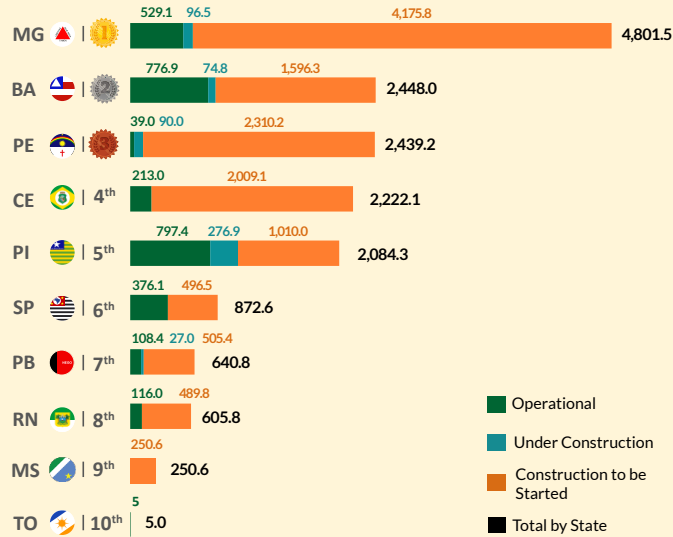
Municipality Ranking

Source: ANEEL/ABSOLAR, 2020.

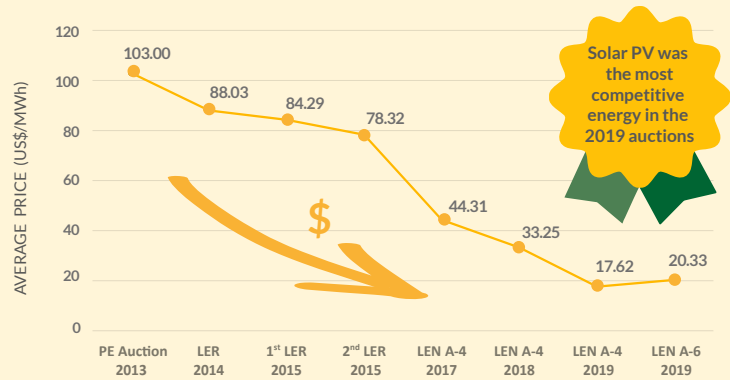


Centralized Generation Source: ANEEL/ABSOLAR, 2020.

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.



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
Aug. 28th, 2020

755.2 MW
average
with a capacity factor of
26.1%

DAILY MAXIMUM
Apr. 03rd, 2020

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

1.2%
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.



95.5%

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.



305,769

Solar PV systems connected to the grid.



381,479

consumer units (0.4% 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:



45

Solar PV System (kit)



11

Tracker



8

PV Module



7

Solar PV Inverter



2

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.

The Global PV Market

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

Annual Installed Capacity:

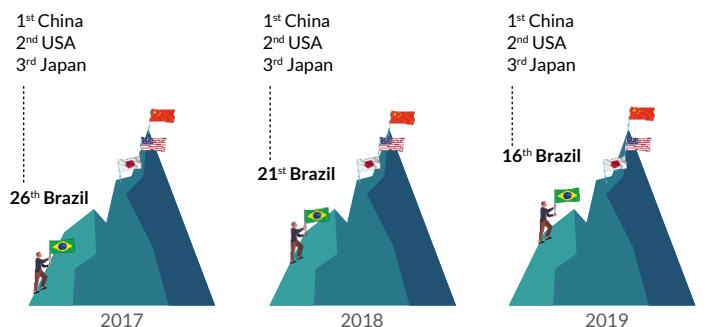
	1 st China	30.1 GW
	(2) European Union	16.0 GW
	2 nd USA	13.3 GW
	3 rd India	9.9 GW
	4 th Japan	7.0 GW
	5 th Vietnam	4.8 GW
	12 th Brazil	2.1 GW

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.