

Solar PV Energy Benefits to Brazil

Source: ABSOLAR, 2022.



Over **15.3 GW** in operation.



Over **R\$ 82.1 billion** in new investments.



Over **459 thousand new jobs** created in the country.



Over **R\$ 22.1 billion** in taxes collected.

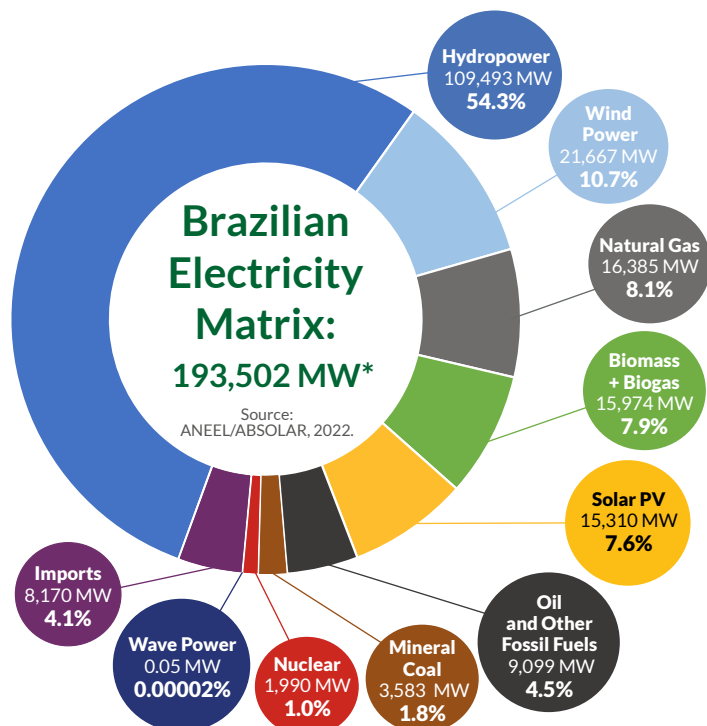
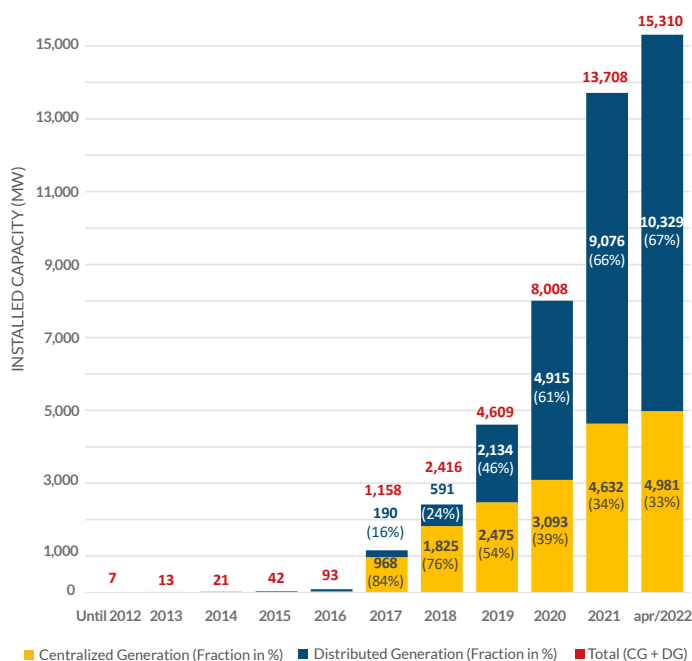


Over **22.0 million tons** of CO₂ avoided.

Data accumulated since 2012.

Evolution of the Solar Photovoltaic Energy in Brazil

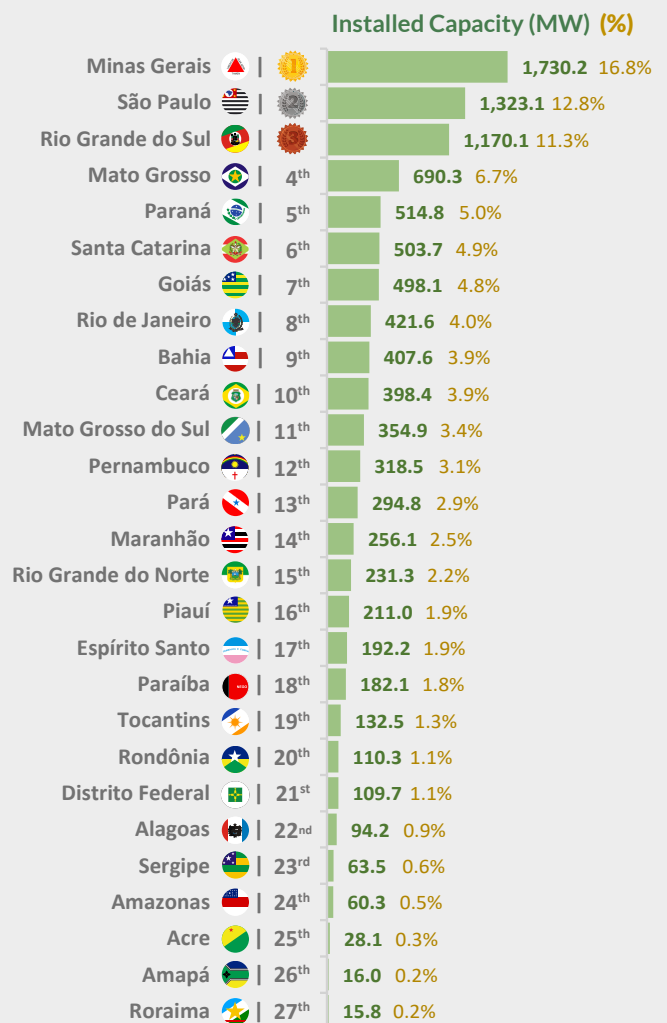
Source: ANEEL/ABSOLAR, 2022.



* The matrix total capacity does not include imports. In addition, mini and micro distributed generation are considered in the values of installed capacity for each source, according to criteria applied by MME.

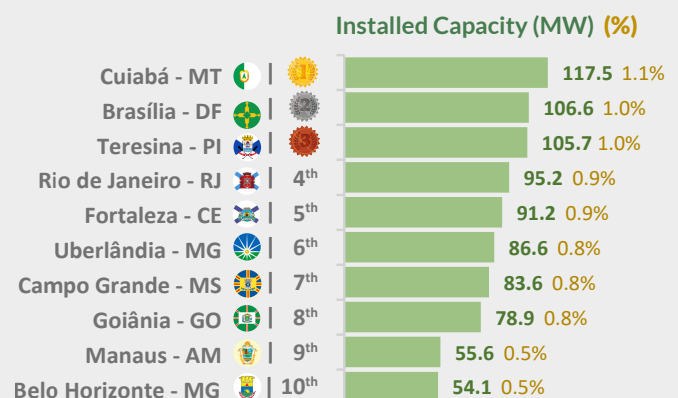
Distributed Generation State Ranking

Source: ANEEL/ABSOLAR, 2022.



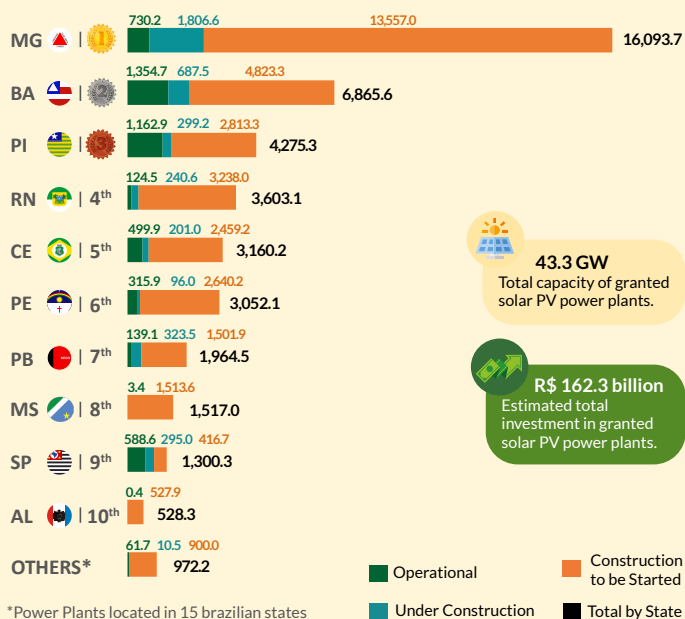
Municipality Ranking

Source: ANEEL/ABSOLAR, 2022.



Centralized Generation Source: ANEEL/ABSOLAR, 2022.

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



Evolution of Brazil in the World Ranking Source: IEA PVPS, 2018, 2019, 2020 e 2021. IRENA, 2022. ABSOLAR, 2022.



Solar PV Leaders in 2021

Source: IRENA, 2022. Adapted by ABSOLAR.

Added capacity:

1st China	52.9 GW
2nd USA	19.9 GW
3rd India	10.3 GW
4th Brazil	5.7 GW
5th Germany	4.7 GW
6th Japan	4.4 GW
7th South Korea	3.5 GW
8th Netherlands	3.2 GW
9th Spain	3.1 GW
10th France	2.6 GW

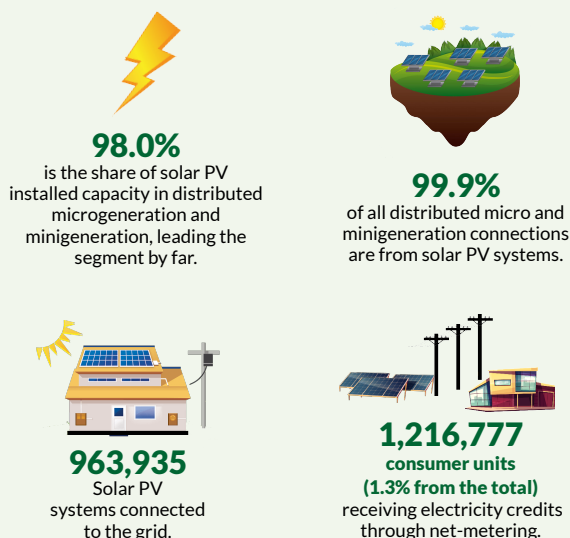
Accumulated installed capacity:

1st China	306.4 GW
2nd USA	93.7 GW
3rd Japan	74.1 GW
4th Germany	58.4 GW
5th India	49.4 GW
6th Italy	22.6 GW
7th Australia	19.0 GW
8th South Korea	18.1 GW
9th Vietnam	16.6 GW
10th France	14.7 GW
13th Brazil*	13.6 GW

* Updates in the ANEEL database point to an increase of the cumulative solar PV installed capacity until the end of last year.

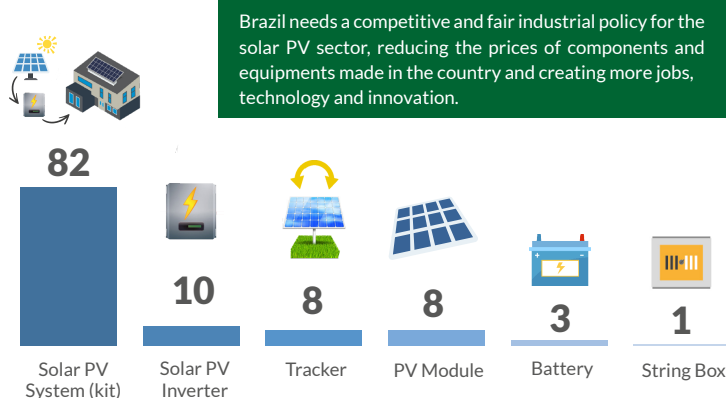
Distributed Generation Source: ANEEL/ABSOLAR, 2022.

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.



Value Chain Source: BNDES, 2022.

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



Solar PV Distributed Generation by Consumer Type in Brazil Source: ANEEL/ABSOLAR, 2022.

