

Solar PV Energy Benefits to Brazil

Source: ABSOLAR, 2022.



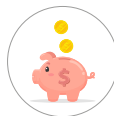
Over **17.5 GW** in operation.



Over **R\$ 90.9 billion** in new investments.



Over **524.0 thousand** new jobs created.



Over **R\$ 24.6 billion** in taxes collected.

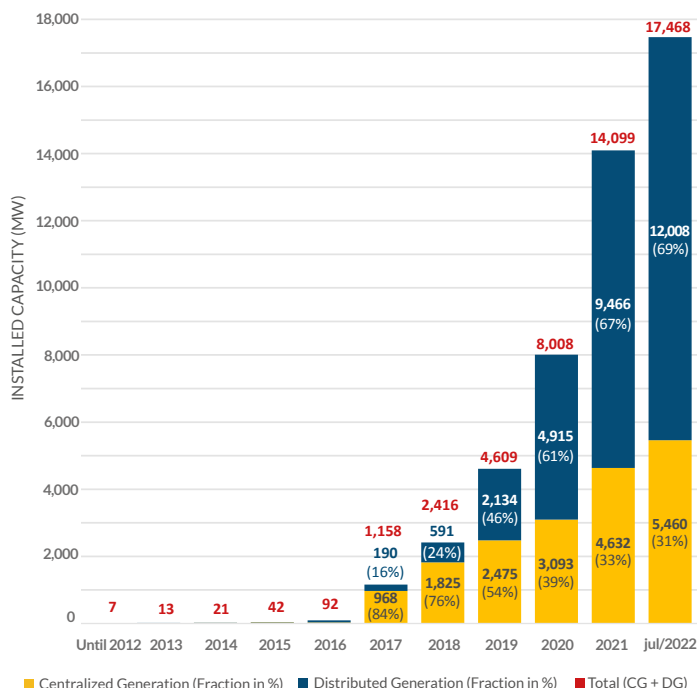


Over **25.7 million tons** of CO₂ avoided.

Data accumulated since 2012.

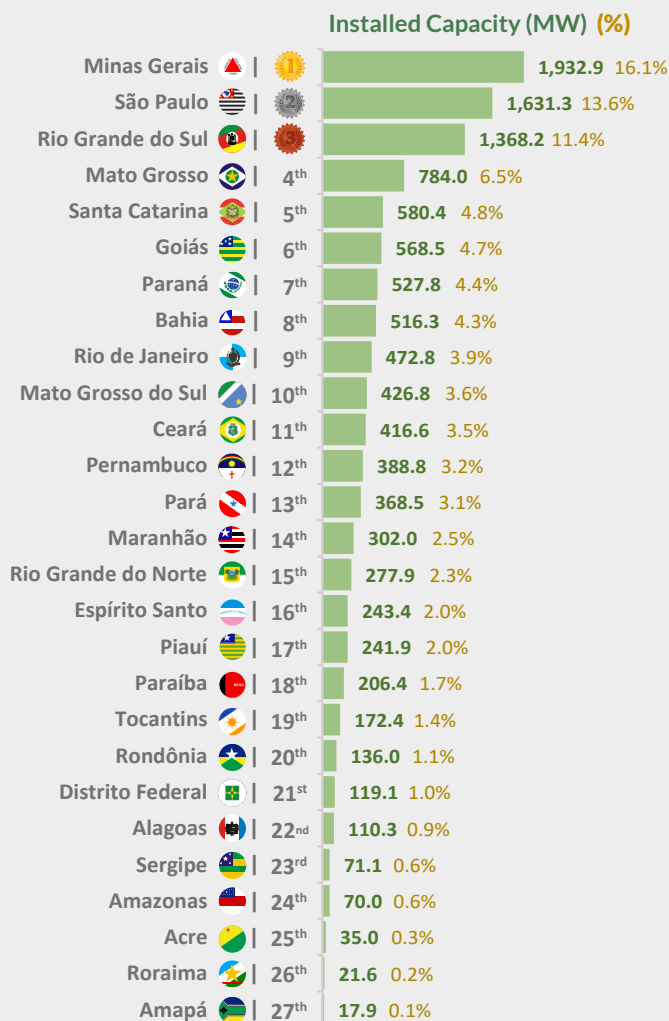
Evolution of the Solar Photovoltaic Energy in Brazil

Source: ANEEL/ABSOLAR, 2022.



Distributed Generation State Ranking

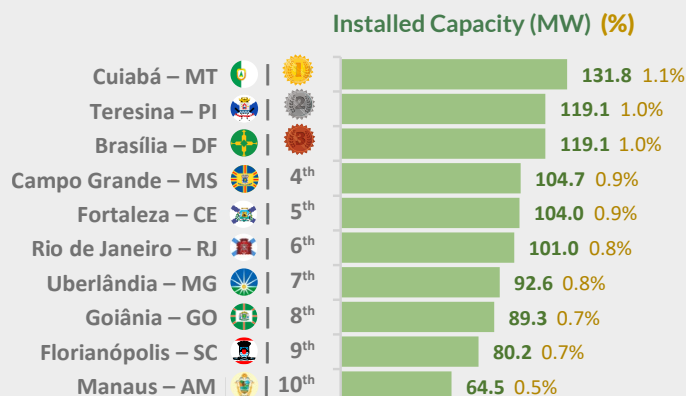
Source: ANEEL/ABSOLAR, 2022.



* 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.

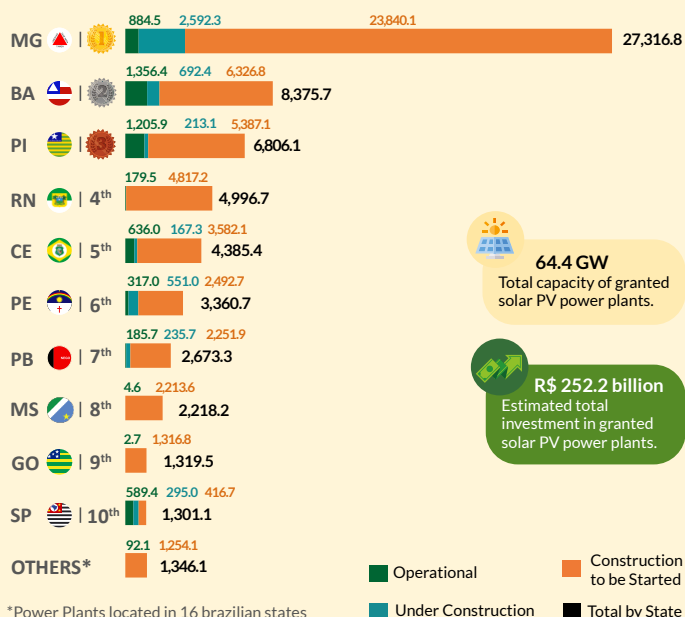
Municipality Ranking

Source: ANEEL/ABSOLAR, 2022.

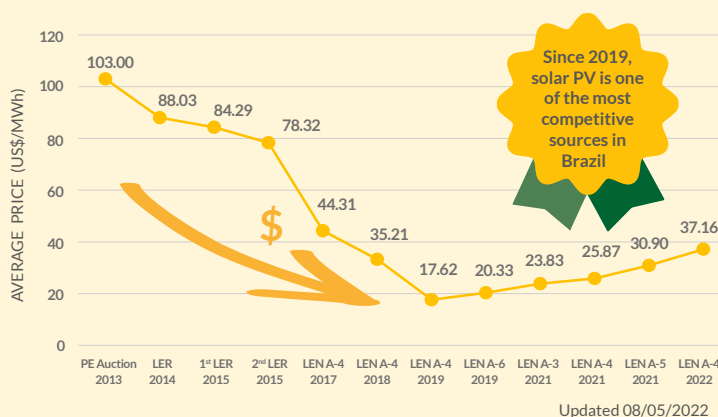


Centralized Generation Source: ANEEL/ABSOLAR, 2022.

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



Price Development of Solar PV Energy in the Energy Auctions of the Regulated Electricity Market Source: CCEE/ABSOLAR, 2022.



Electricity Generation Records

Source: ONS/MME, 2022.

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

DAILY AVERAGE

Jan. 14th, 2022

1,637
MW average
meeting

2.2%
of the demand for
electricity in Brazil

DAILY MAXIMUM

Apr. 25th, 2022

4,051 MW
at 12:00 a.m.
equivalent to

5.81%
of the national demand
at that moment



2.1%

of the electricity
supplied in Brazil
was generated from
solar PV energy
in June 2022.

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.

98.3%

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.

1,146,595

Solar PV systems connected to the grid.

1,456,610

consumer units
(1.4% from the total)
receiving electricity credits through net-metering.

Value Chain

Source: BNDES, 2022.

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



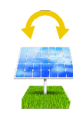
82

Solar PV System (kit)



10

Solar PV Inverter



8

Tracker



8

PV Module



3

Battery



1

String Box

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.

Solar PV Distributed Generation by Consumer Type in Brazil

Source: ANEEL/ABSOLAR, 2022.

