



ABSOLAR

Brazilian Solar Photovoltaic Energy Association

Updated on July 20th, 2026 | n. 93

Solar Photovoltaic Energy in Brazil

ABSOLAR's Infographic

Solar PV Energy Benefits to Brazil

Source: ABSOLAR, 2026.



Over **74.3 GW** in operation.



Over **R\$ 328.2 billion** in new investments.



Over **2.2 millions** new jobs created.



Over **R\$ 103.2 billion** in taxes collected.

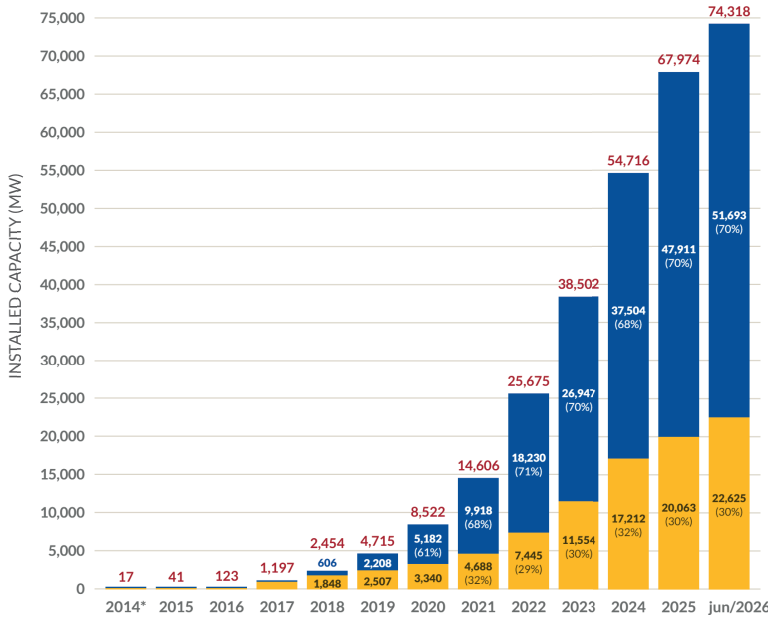


Over **122.6 million tons** of CO₂ avoided.

Data accumulated since 2012.

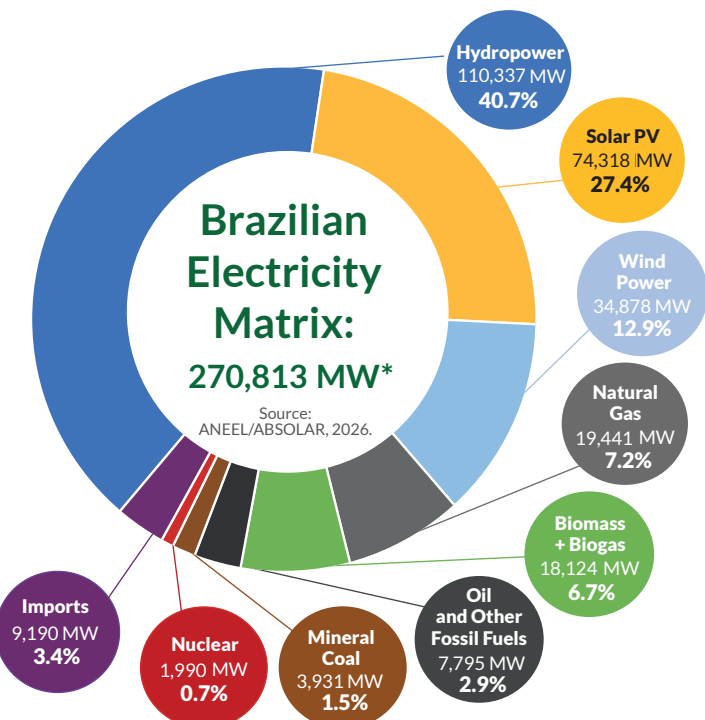
Evolution of the Solar Photovoltaic Energy in Brazil

Source: ANEEL/ABSOLAR, 2026.



*2012+2013 data: 4 MW of DG and 14 MW of CG.

■ Centralized Generation (Fraction in %) ■ Distributed Generation (Fraction in %) ■ Total (CG + DG)

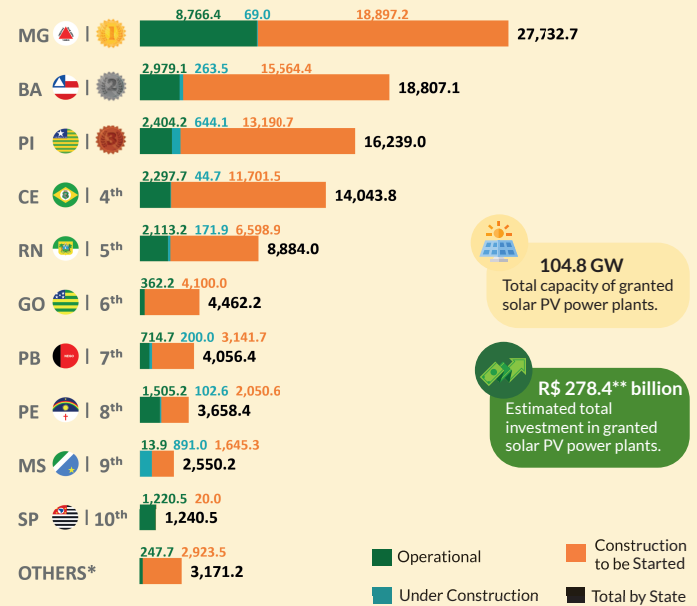


* The matrix total capacity does not include imports. In addition, mini and micro distributed generation are considered in the values of installed capacity for each source, according to criteria applied by MME.

Centralized Generation

Source: ANEEL/ABSOLAR, 2026.

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



104.8 GW
Total capacity of granted solar PV power plants.

R\$ 278.4 billion**
Estimated total investment in granted solar PV power plants.

*Power Plants located in 17 Brazilian states

**The future investment values were recalculated due to drop in equipment values

Electricity Generation Records

Source: ONS/MME, 2026.

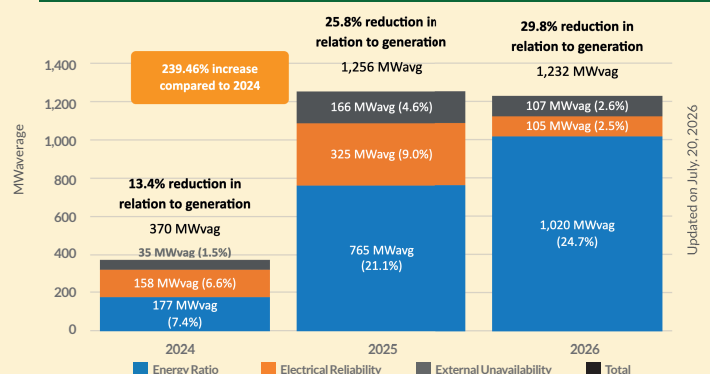
Solar PV achieved new records of electricity generation on the SIN (National Grid System) in Brazil:

DAILY AVERAGE
Dec. 11th, 2025
14,507
MWaverage meeting
16.92%
of the demand for electricity in Brazil

HOURLY MAXIMUM
Dec. 26th, 2025
42,552 MW
at 11:00 a.m.
equivalent to
48.37%
of the national demand at that moment

15.23%
of the electricity supplied in Brazil was generated from solar PV energy in December 2025.

Monitoring of Generation Reductions at Solar Power Plants



Updated on July 20, 2026

Distributed Generation

Source: ANEEL/ABSOLAR, 2026.

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.

*After February 7th 2023 are defined as distributed mini-generation, all units with installed power above 75 kW and less than or equal to:
5 MW for dispatchable power generation plants
3 MW for other sources not classified as dispatchable source generating centers.

99.40%
is the share of solar PV installed capacity in distributed microgeneration and minigeneration, leading the segment by far.

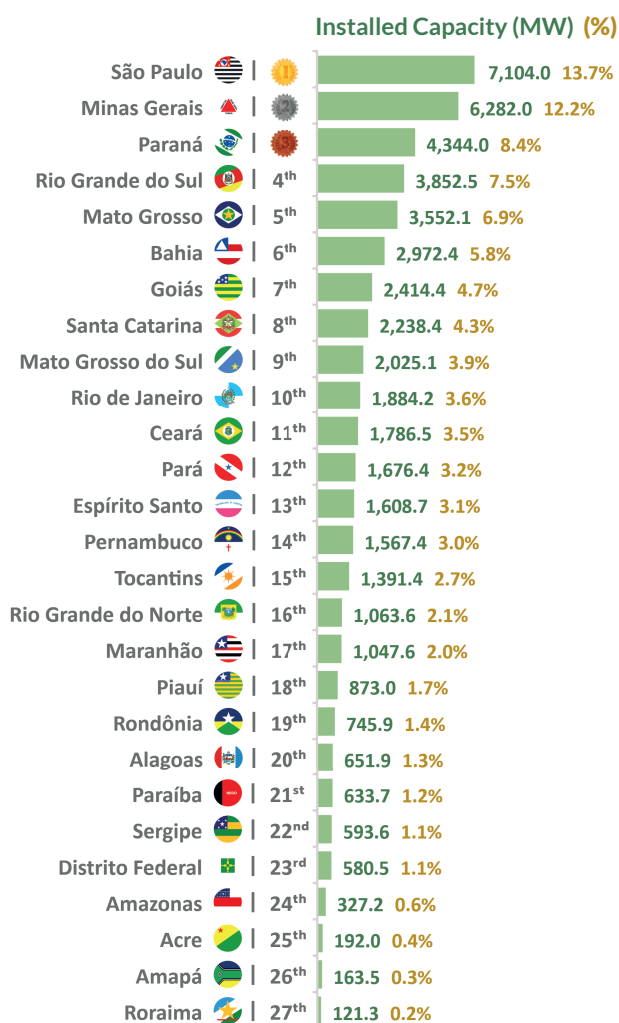
99.98%
of all distributed micro and minigeneration connections are from solar PV systems.

4,716,423
Solar PV systems connected to the grid.

8,229,276
consumer units
(8.62% from the total)
receiving electricity credits through net-metering.

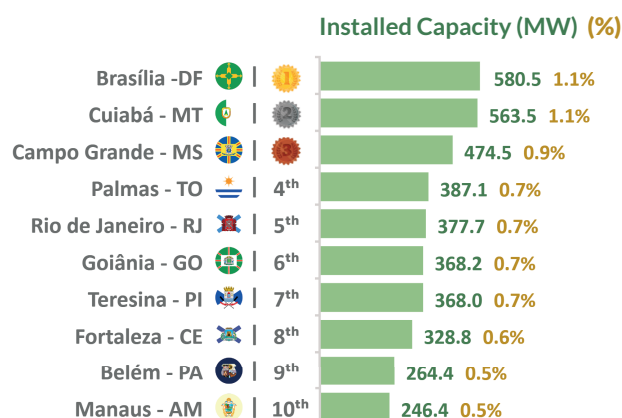
State Ranking

Source: ANEEL/ABSOLAR, 2026.



Municipality Ranking

Source: ANEEL/ABSOLAR, 2026.



Value Chain

Source: BNDES, 2025.

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



146

Solar PV System (kit)



5

Solar PV Inverter



16

Tracker



8

PV Module



2

Battery



2

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, creating more jobs, technology and innovation.

Solar PV Distributed Generation by Consumer Type in Brazil

Source: ANEEL/ABSOLAR, 2026.

