



Updated on January 10th, 2025 | n. 75

Solar PV Energy Benefits to Brazil

Source: ABSOLAR, 2025.



Over **52.1 GW** in operation.



Over **R\$ 239 billion** in new investments.



Over **1.5 million new jobs** created.



Over **R\$ 74.1 billion** in taxes collected.

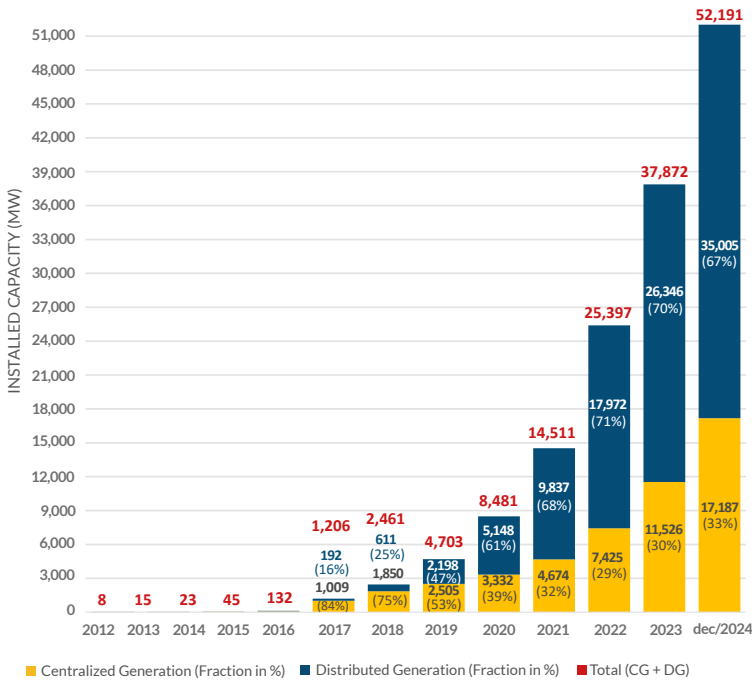


Over **63.5 million tons** of CO₂ avoided.

Data accumulated since 2012.

Evolution of the Solar Photovoltaic Energy in Brazil

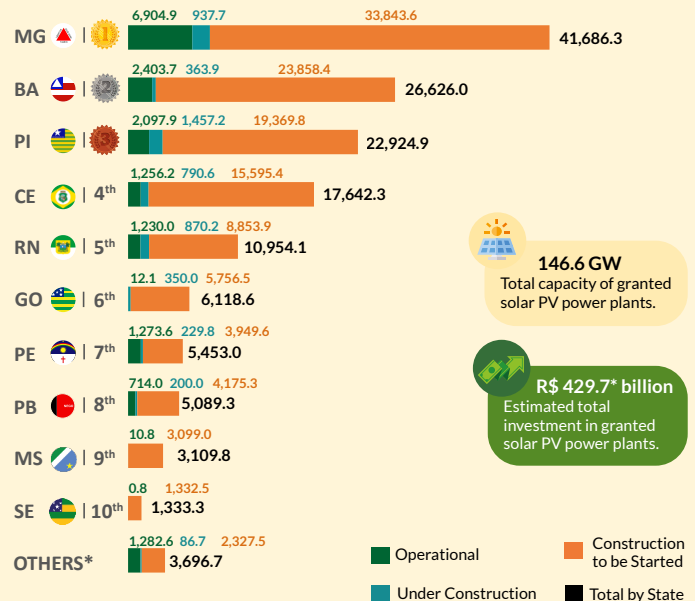
Source: ANEEL/ABSOLAR, 2025.



Centralized Generation

Source: ANEEL/ABSOLAR, 2025.

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



146.6 GW
Total capacity of granted solar PV power plants.

R\$ 429.7* billion
Estimated total investment in granted solar PV power plants.

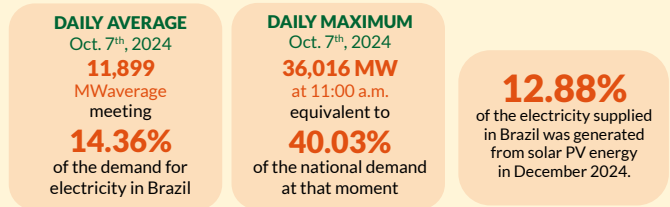
*Power Plants located in 17 Brazilian states

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

Electricity Generation Records

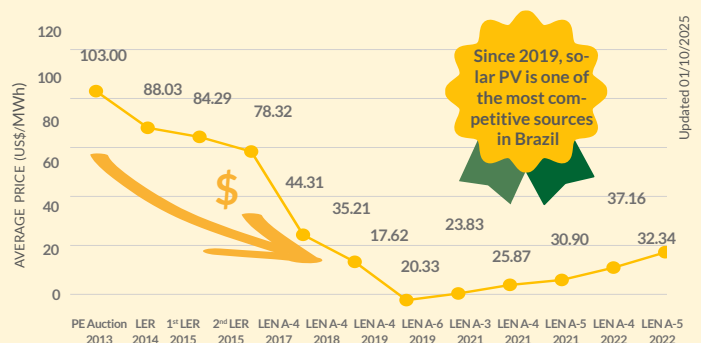
Source: ONS/MME, 2025.

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

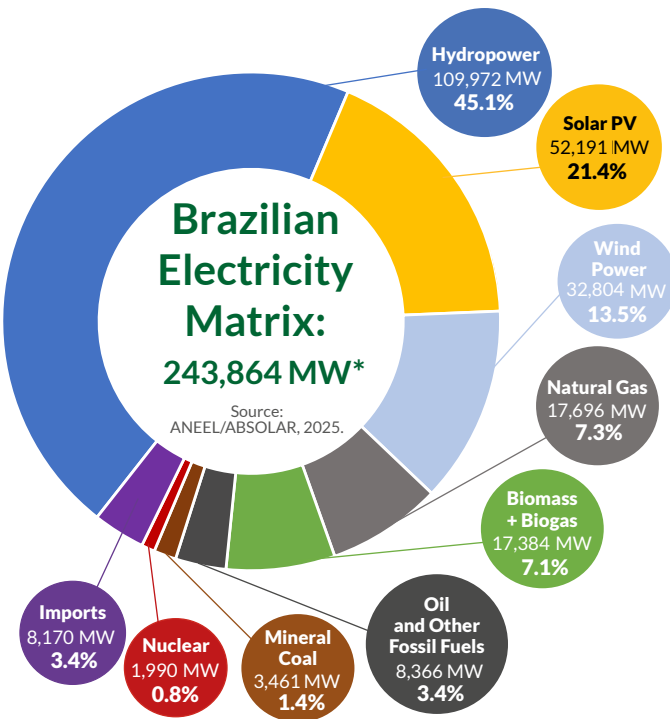


Price Development of Solar PV Energy in the Energy Auctions of the Regulated Electricity Market

Source: CCEE/ABSOLAR, 2025.



Since 2019, solar PV is one of the most competitive sources in Brazil



* 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.

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Distributed Generation

Source: ANEEL/ABSOLAR, 2025.

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.

99.22% 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.

3,120,726 Solar PV systems connected to the grid.

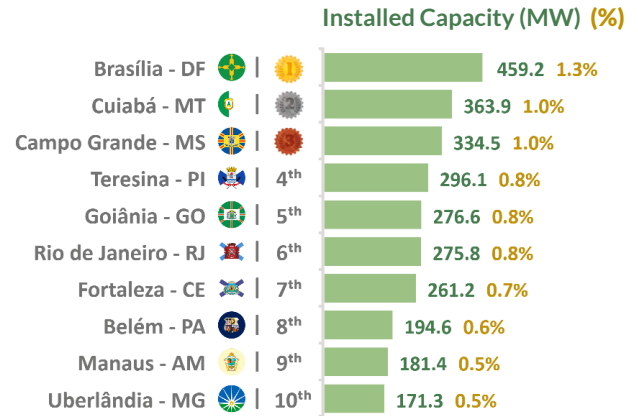
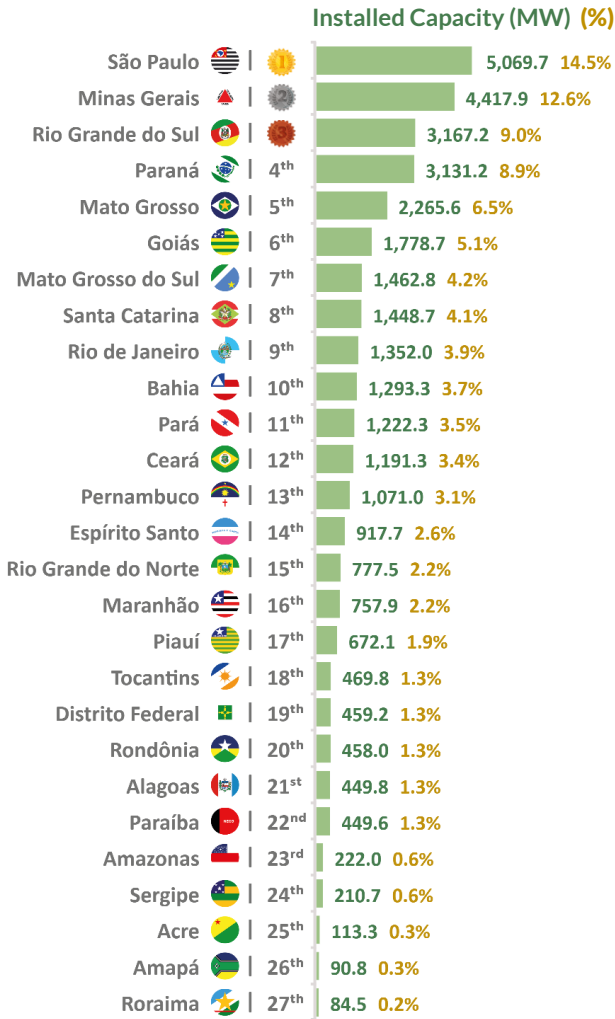
4,624,940 consumer units (4.63% from the total) receiving electricity credits through net-metering.

State Ranking

Source: ANEEL/ABSOLAR, 2025.

Municipality Ranking

Source: ANEEL/ABSOLAR, 2025.

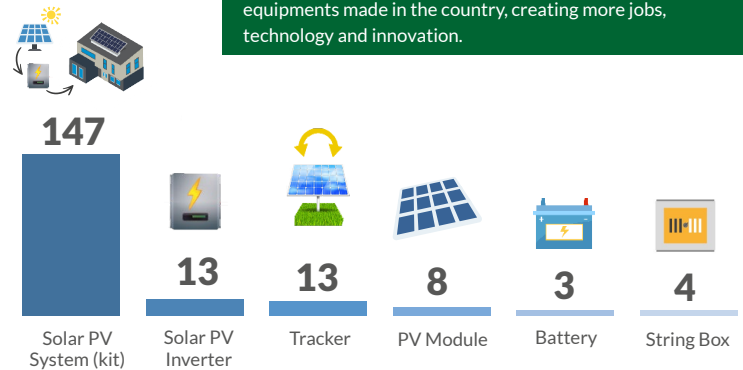


Value Chain

Source: BNDES, 2025.

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

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, 2025.

