# ABSOLAR

Brazilian Solar Photovoltaic Energy Association

# Solar Photovoltaic Energy in Brazil
## ABSOLAR's Infographic

Updated on February 11th, 2026 | n. 88

## Solar PV Energy Benefits to Brazil

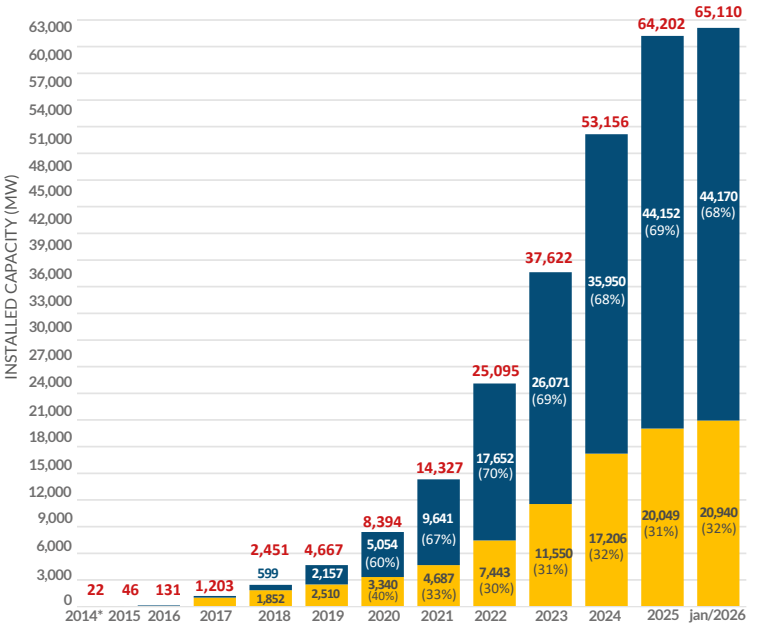
Source: ABSOLAR, 2026.

- Over **65.1 GW** in operation.
- Over **R$ 288.3 billion** in new investments.
- Over **1.9 million new jobs** created.
- Over **R$ 90.3 billion** in taxes collected.
- Over **105.9 million tons** of $CO_2$ avoided.

Data accumulated since 2012.

## Evolution of the Solar Photovoltaic Energy in Brazil

Source: ANEEL/ABSOLAR, 2026.



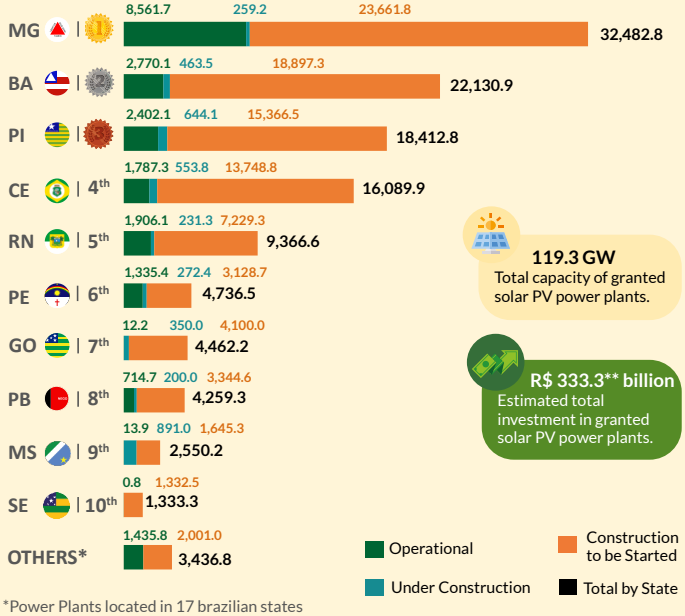

*2012–2013 data: 2 MW of DG and 7 MW of CG.

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

## 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:




**119.3 GW**
Total capacity of granted solar PV power plants.

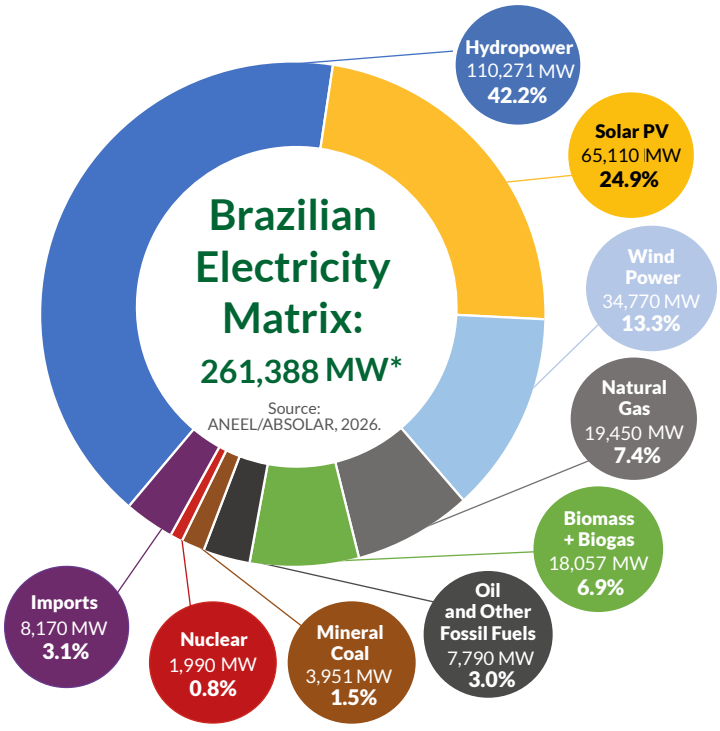
**R$ 333.3** billion**
Estimated total investment in granted solar PV power plants.

*Power Plants located in 17 brazilian states

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

## Brazilian Electricity Matrix: 261,388 MW*

Source: ANEEL/ABSOLAR, 2026.




* 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.

## Electricity Generation Records

Source: ONS/MME, 2026.

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

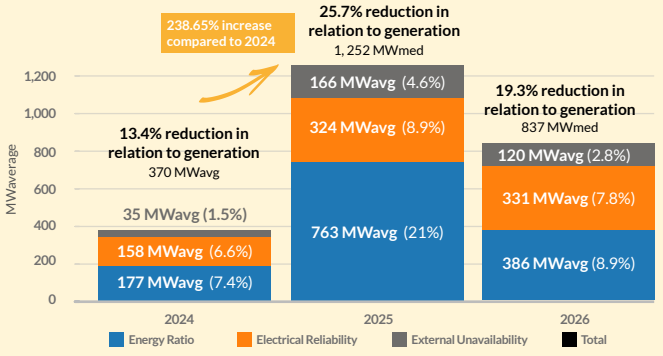
**DAILY AVERAGE**
Dec. 11th, 2025
**14,507** MWaverage
meeting
**16.92%**
of the demand for electricity in Brazil

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

**15.22%**
of the electricity supplied in Brazil was generated from solar PV energy in December 2025.

## Monitoring of Generation Reductions at Solar Power Plants

Source: ONS, 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.

**99.37%**
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.

**3,960,104**
Solar PV systems connected to the grid.

**7,091,332**
**consumer units (7.39% from the total)** receiving electricity credits through net-metering.

# State Ranking

Source: ANEEL/ABSOLAR, 2026.

| | Installed Capacity (MW) | (%) |
|---|---|---|
| São Paulo | 6,305.0 | 14.3% |
| Minas Gerais | 5,600.1 | 12.7% |
| Paraná | 4,118.2 | 9.3% |
| Rio Grande do Sul | 3,669.7 | 8.3% |
| Mato Grosso | 2,965.2 | 6.7% |
| Bahia | 2,371.8 | 5.4% |
| Goiás | 2,292.3 | 5.2% |
| Mato Grosso do Sul | 1,773.9 | 4.0% |
| Rio de Janeiro | 1,739.3 | 3.9% |
| Santa Catarina | 1,687.2 | 3.8% |
| Ceará | 1,595.7 | 3.6% |
| Pará | 1,517.2 | 3.4% |
| Pernambuco | 1,376.3 | 3.1% |
| Espírito Santo | 1,238.2 | 2.8% |
| Maranhão | 943.5 | 2.1% |
| Piauí | 807.9 | 1.8% |
| Tocantins | 643.2 | 1.5% |
| Rondônia | 628.2 | 1.4% |
| Alagoas | 598.7 | 1.4% |
| Paraíba | 570.3 | 1.3% |
| Distrito Federal | 525.5 | 1.2% |
| Amazonas | 288.9 | 0.7% |
| Sergipe | 283.5 | 0.6% |
| Rio Grande do Norte | 205.1 | 0.5% |
| Acre | 164.0 | 0.4% |
| Amapá | 144.9 | 0.3% |
| Roraima | 116.1 | 0.3% |

# Municipality Ranking

Source: ANEEL/ABSOLAR, 2026.

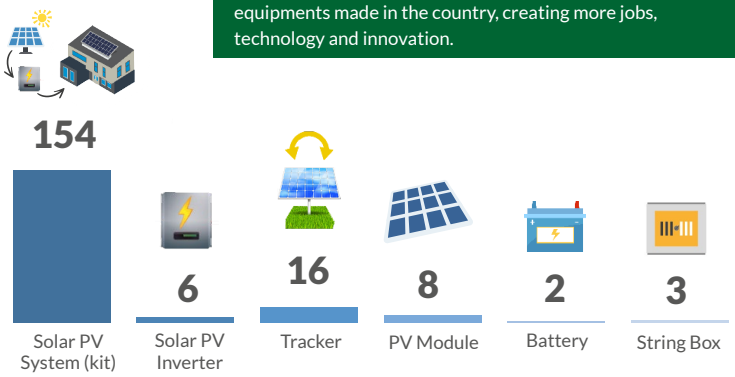
| | Installed Capacity (MW) | (%) |
|---|---|---|
| Brasília - DF | 525.5 | 1.2% |
| Cuiabá - MT | 471.9 | 1.1% |
| Campo Grande - MS | 411.0 | 0.9% |
| Teresina - PI | 346.9 | 0.8% |
| Rio de Janeiro - RJ | 345.4 | 0.8% |
| Goiânia - GO | 341.1 | 0.8% |
| Fortaleza - CE | 309.8 | 0.7% |
| Belém - PA | 240.6 | 0.5% |
| Manaus - AM | 219.0 | 0.5% |
| São Paulo - SP | 204.1 | 0.5% |

# Value Chain

Source: BNDES, 2025.

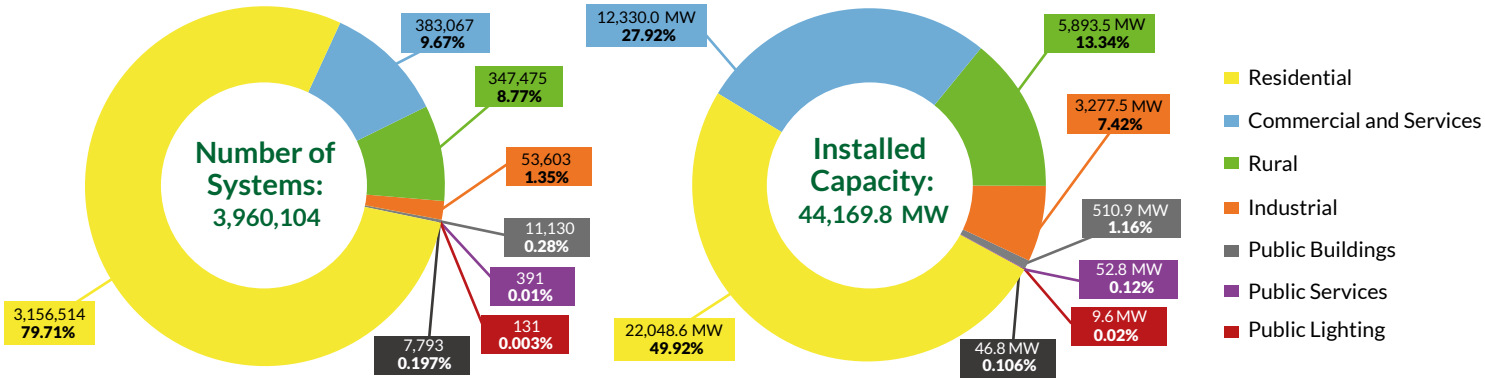
Number of national manufacturers from the solar PV sector registered at the BNDES FINAME financing program:

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, 2026.





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