

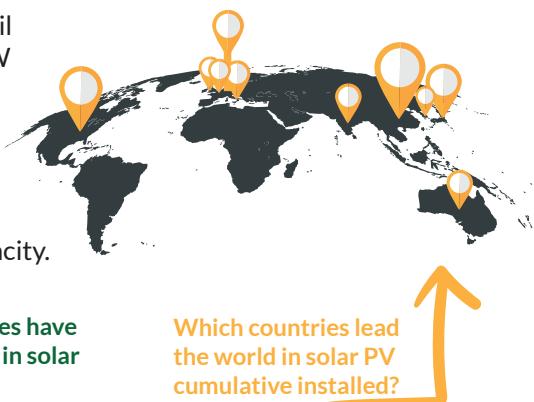


Solar Photovoltaic Energy

ABSOLAR's Infographic

Global PV Market Status

In 2018, Brazil added 1,2 GW in solar PV capacity, totaling 2,4 GW of cumulative installed capacity.



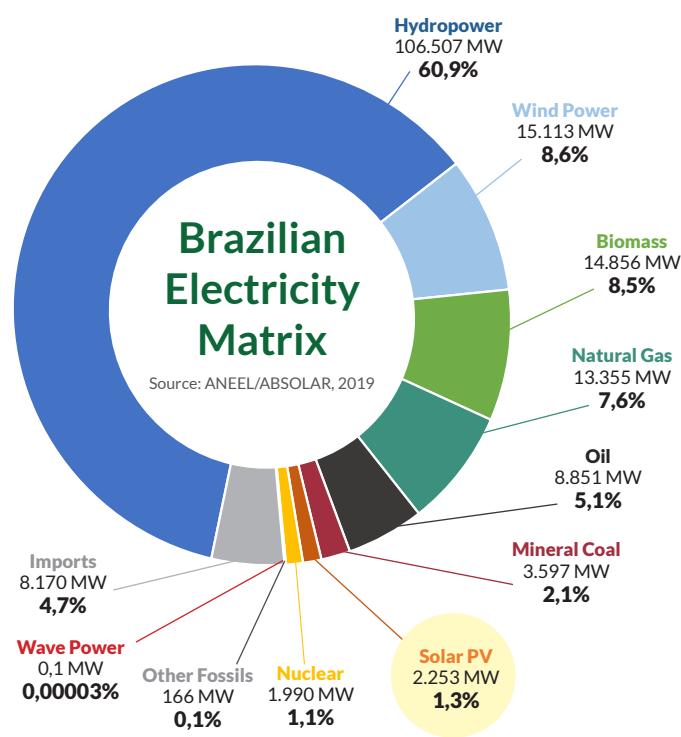
Which countries have invested more in solar PV in 2018?

1° China	45,0 GW
2° India	10,8 GW
3° USA	10,6 GW
4° Japan	6,5 GW
5° Australia	3,8 GW
6° Germany	3,0 GW
7° Mexico	2,7 GW
8° Korea	2,0 GW
9° Turkey	1,6 GW
10° Netherland	1,3 GW

Which countries lead the world in solar PV cumulative installed?

1° China	176,1 GW
2° USA	62,2 GW
3° Japan	56,0 GW
4° Germany	45,4 GW
5° India	32,9 GW
6° Italy	20,1 GW
7° UK	13,0 GW
8° Australia	11,3 GW
9° France	9,0 GW
10° Korea	7,9 GW

Source: Snapshot of Global PV Markets, IEA PVPS, 2019.



What is the Solar PV Installed Capacity in Brazil?

Centralized Generation
2.253,4 MW



Distributed Generation
1.112,1 MW

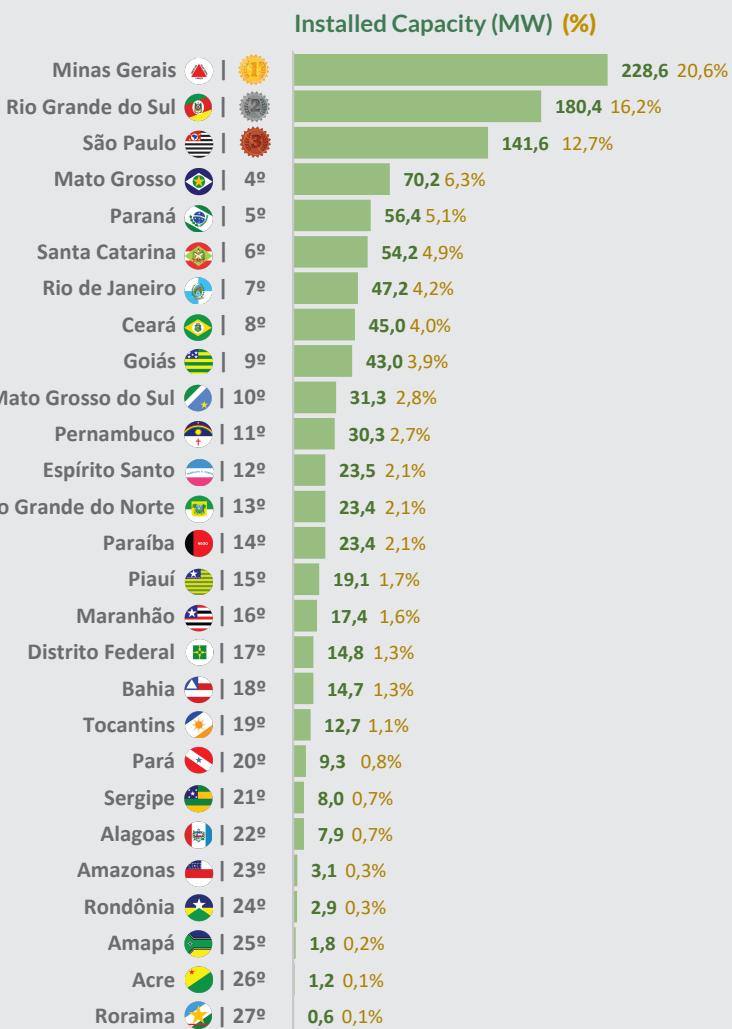


Total Operational Installed Capacity
3.365,5 MW

Distributed Generation

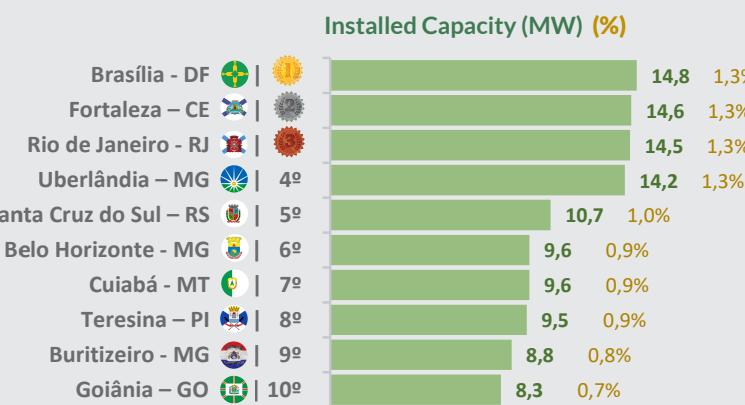
State Ranking

Source: ANEEL/ABSOLAR, 2019.



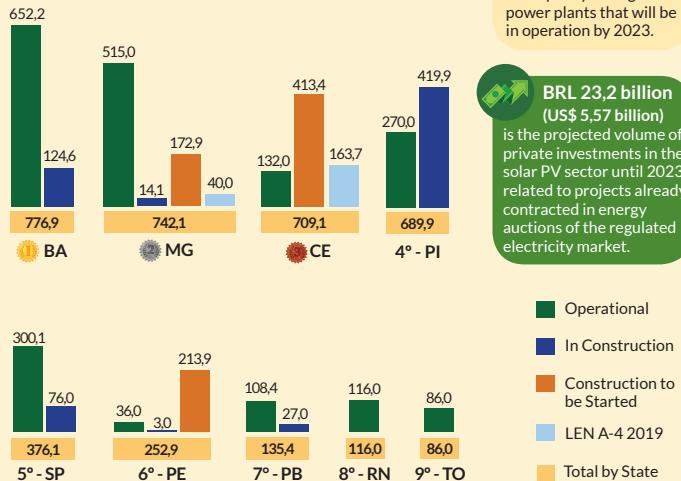
Municipality Ranking

Source: ANEEL/ABSOLAR, 2019.



Centralized Generation

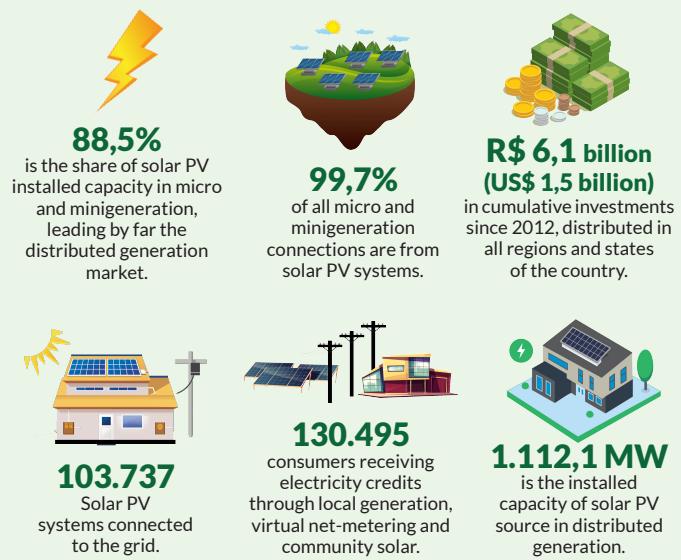
Installed Capacity (MW) and Status of Solar PV Centralized Generation by State:



Source: ANEEL/ABSOLAR, 2019.
Dollar exchange rate on 03/09/2019 by Banco Central do Brasil.

Distributed Generation

Microgeneration (until 75 kW) and minigeneration (above 75 kW until 5 MW) solar PV systems installed at homes, commercial buildings, industries, rural properties and public buildings.



Source: ANEEL/ABSOLAR, 2019. Dollar Exchange rate on 03/09/2019 by Banco Central do Brasil.

Main Benefits of Solar PV to Brazil



Socioeconomical

- Reduction of expenses with electricity for the population, businesses and governments, lowering costs to society.
- Leader in local quality jobs generation, creating from 25 to 30 jobs per MW/year.
- Attraction of foreign capital and new private investments for the country.



Environmental

- Generation of clean, renewable and sustainable electricity, free of greenhouse gases emissions, without waste or noise.
- No water usage during operation, relieving the pressure on water resources.
- Low environmental impact.

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



Electricity Generation Records

Solar PV achieved new records of electricity generation in Brazil:



DAILY AVERAGE

29/01/2019

593,5 MW
avg
with a capacity factor of
34,85%

DAILY MAXIMUM

30/01/2019

1.554,4 MW
at 12h p.m.
with a capacity factor of
91,3%

0,8%
of the electricity supplied in Brazil was generated from solar PV source in April 2019.

Source: ONS/MME, 2019.

Value Chain

Number of national manufacturers from the solar PV sector registered at 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, generating more jobs, technology and innovation.

Source: BNDES/ABSOLAR, 2019.



Strategic

- Diversification of the Brazilian electricity matrix with a new renewable source, increasing reliability of the electricity supply.
- Reduction of losses and postponement of investments in transmission and distribution grids.
- Relief of electrical demand during daytime, reducing costs to consumers.

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