Solar Photovoltaic Energy in Brazil
ABSOLAR’s Infographic

Solar PV Energy Benefits to Brazil

Data accumulated since 2012.

Evolution of the Solar Photovoltaic Energy in Brazil


Distributed Generation

State Ranking


Municipality Ranking

Centralized Generation

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

Price Development


PV Module 9,284.5
Battery 25.87
469.8


Solar PV Distributed Generation by Consumer Type in Brazil

Distributed Generation


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.

96.9% 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.

576,086 Solar PV systems connected to the grid.

720,200 consumer units (0.8% from the total) receiving electricity credits through net-metering.

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


Solar PV was the most competitive energy since 2019 auctions

Electricity Generation Records

Source: ONS/MME, 2021.

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

DAILY AVERAGE
Jun. 28th, 2021
838.32 MW average with a capacity factor of 28.28%

DAILY MAXIMUM
Jun. 30th, 2021
2,249.97 MW at 11 a.m. with instantaneous capacity factor of 75.9%

1.4% of the electricity supplied in Brazil was generated from solar PV energy in September 2020.

Value Chain


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 equipment made in the country and creating more jobs, technology and innovation.

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