

# Solar power generation data over the years



## Overview

Global solar power generation reached 2,090. 53% in 2023. Solar electricity generation includes solar photovoltaic and solar thermal generation, and distributed solar generation where available. Generation data consist of both utility and non-utility sources from electricity and combined heat and power plants. Data are reported as net generation, not. Ember (2026); Energy Institute - Statistical Review of World Energy (2025) – with major processing by Our World in Data This dataset contains yearly electricity generation, capacity, emissions, imports and demand data for European countries. In our latest Short-Term Energy Outlook (STEO), we expect U. The associated Renewables 2025 dataset gives full access to all of the data available in this dashboard for the Renewables 2025 forecast, plus. This publication presents renewable energy statistics for the last decade (2015-2024).



## Article Content

### Data and statistics

The International Energy Agency works with countries around the world to shape energy policies for a secure and sustainable future.

### STEO Data Browser

Includes hydropower, solar, wind, geothermal, biomass and ethanol. Uranium fuel, nuclear reactors, generation, spent fuel. Comprehensive data summaries, comparisons, analysis, and

### World Energy Outlook 2025 – Analysis

Use comparative analysis: Take advantage of the agent's capability to compare data across scenarios, regions, or timeframes. For example: "Compare solar power

### Renewable energy statistics 2025

The previous editions and complete electricity generation and capacity dataset from 2000 onwards are available for download on the Data and Statistics web pages.

### Solar Market Insight Report – SEIA

The US solar industry installed 7.8 gigawatts direct current (GWdc) of capacity in Q1 2026, a 27% decline from Q1 2025 and a 42% decline compared

### Levelized Costs of New Generation Resources in the Annual Energy ...

Introduction This paper presents average values of levelized costs for new generation resources as represented in the National Energy Modeling System (NEMS) for our Annual Energy Outlook 2025

### Renewable Energy

This interactive chart shows the amount of energy generated from solar power each year. Solar generation at scale – compared to hydropower, for example – is a relatively modern renewable

### New U.S. electric generating capacity expected to reach a record high ...

U.S. power plant developers and operators plan to add 86 gigawatts (GW) of new utility-scale electric generating capacity to the U.S. power grid in 2026 in our latest Preliminary Monthly

### Global solar energy outlook

In the last few years, solar energy has been the main driver for renewable energy growth worldwide. In 2024, solar photovoltaic capacity additions surpassed 600 gigawatts, accounting for over...

## Electricity Mix

Solar, wind, and other renewable technologies are growing quickly. They will hopefully account for a large share of electricity production in the future — but

## 35 Latest Solar Power Statistics, Charts & Data

The data shows the amount of solar electricity generated is increasing year on year, as more and more people see its benefits as an alternative source of energy.

## Renewable Power Generation Costs in 2023

The levelised cost of electricity produced from most forms of renewable power continued to fall year-on-year in 2023, with solar PV leading the cost reductions, followed by offshore wind.

## Solar power generation drives electricity generation growth over the ...

We expect the combined share of generation from solar power and wind power to rise from about 18% in 2025 to about 21% in 2027. In our STEO forecast, utility-scale solar is the fastest

## Executive summary – Renewables 2025 – Analysis

In more than 80% of countries worldwide, renewable power capacity is set to grow faster between 2025 and 2030 than it did over the previous five-year period. However, challenges including grid

## Renewable Energy Progress Tracker – Data Tools

The associated Renewables 2025 dataset gives full access to all of the data available in this dashboard for the Renewables 2025 forecast, plus additional premium data for all sectors and

## National Grid: Live

At the same time, renewable power generation was steadily rising. Great Britain's exposed position in the north-east Atlantic makes it one of the best locations in the world for wind power, and the shallow

## Ad Library

Explore and search for ads across Meta platforms with the Ad Library, providing transparency and insights into active campaigns and advertisers.

## Electricity Data Explorer | Ember

Ember's data explorer allows users to analyse and visualise Ember's best-in-class dataset on the global power sector. The data covers 215 countries, and contains the latest 2025

## Solar power generation, 2025

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find more about Ember's methodology in this

Electricity - Global Energy Review 2025 - Analysis

Electricity generation Clean energy accounted for over 80% of total growth in electricity generation in 2024 Global electricity generation grew by over 1 200

Solar power generation. Data by Countries from 1983 to 2024

Official statistics by year of solar power generation (TWh). The values are presented in tables and charts with calculations of changes and shares, extensive analytical functionality, and export/download

U.S. Energy Information Administration

Includes hydropower, solar, wind, geothermal, biomass and ethanol. Uranium fuel, nuclear reactors, generation, spent fuel. Comprehensive data summaries, comparisons, analysis, and projections

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