

## European Solar Energy Storage

# How much solar energy is created today



## Overview

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The world currently has a cumulative solar energy capacity of 850.2 GW (gigawatts). 4.4% of our global energy comes from solar power. China generates more solar energy than any other country, with a current capacity of 308.5 GW. The US relies on solar for 3.9% of its energy, although this share is.

In this interactive chart, we see the share of primary energy consumption that came from renewable technologies – the combination of hydropower, solar, wind, geothermal, wave, tidal, and modern biofuels. Traditional biomass – which can be an important energy source in lower-income settings is not.

Solar energy capacity continues to grow across the U.S., with over 50% of states now having 1 gigawatt (GW) or more of solar installed. The U.S. solar industry is booming, with solar contributing a significant share of new electricity capacity additions in 2023, expected robust growth in 2024.

By the end of 2023, photovoltaic solar arrays provided an estimated 6.5% to 7% of the world's electricity, marking a continued rise in its contribution to global energy generation. According to the 2022 edition of the annual report published by SolarPower Europe, “global solar capacity doubled in 3.

In 2024, net solar power generation in the United States reached its highest point yet at 218.5 terawatt hours of solar thermal and photovoltaic (PV) power. Solar power generation has increased drastically over the past two decades, especially since 2011, when it hovered just below two terawatt.

The U.S. Department of Energy found that, of the solar energy technologies

assessed, only 133 terawatt-hours of solar energy were produced in 2020 despite 386,646 terawatt-hours of potential solar energy being available. Watch Below: Learn which countries are generating the most solar energy today. What percentage of US electricity is generated by solar power?

A report from the National Renewable Energy Laboratory found that solar power accounted for 54% of new U.S. electricity generation capacity in 2023, with 22 states generating more than 5% of their electricity from solar, led by California at 28.2%.

How much solar energy does the world use?

The world currently has a cumulative solar energy capacity of 850.2 GW (gigawatts). 4.4% of our global energy comes from solar power. China generates more solar energy than any other country, with a current capacity of 308.5 GW. The US relies on solar for 3.9% of its energy, although this share is increasing rapidly every year.

What are some statistics about solar energy?

These include IEA, SEIA, Forbes, and official government reports. Each statistic has been verified for accuracy. The statistics cover many aspects of solar energy. These numbers tell a clear story. Solar energy is getting cheaper. Installation rates are rising. More people are choosing solar power than ever before.

How many people are employed in the solar industry?

3,975,096 people are employed in the solar industry worldwide, and 263,883 of these are in the United States. The solar energy industry created more new jobs in the US than any other energy subsector last year. It would take around 18.5 billion solar panels to produce enough energy to power the entire US.

How is the solar energy industry growing?

These ten hand-picked data points showcase the industry's remarkable growth. China holds over 35% of worldwide solar market share. The solar energy market is rapidly expanding, transitioning from an alternative energy source to a mainstream power generation solution.

How many solar panels would it take to power the US?

It would take around 18.5 billion solar panels to power the entire US in 2025.

In a 2017 NGA meeting, Elon Musk famously said that it would be possible to power the entire US by covering one small 100x100 mile square corner of Texas with solar panels.

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### 35 Latest Solar Power Statistics, Charts & Data [2025]

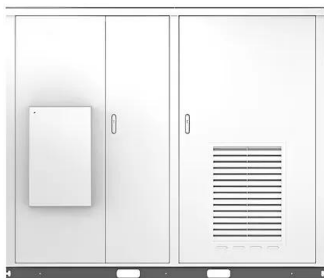
Solar electric power generation created 17,212 jobs last year, which was a 5.4% increase, according to the latest data from the US Department of Energy. A further 4,085 jobs ...

## How much of the world's energy comes from solar?

In this article, we will delve into the current state of solar energy globally, explore recent technological advancements, examine market dynamics, and assess the impact on various industries.



Solar



## Renewable Energy

Solar energy capacity is the maximum amount of energy that a combination of solar installations can produce at any given time. The current global solar energy capacity in 2022 was 1,177 GW.

## Solar Power by Country 2025

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## 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 ...



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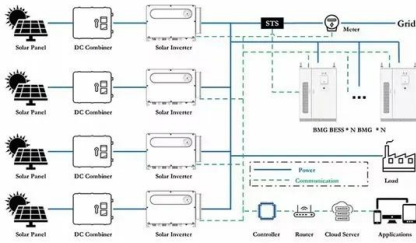
## Solar Energy Facts & Statistics 2025 , ConsumerAffairs®

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## Solar Energy Statistics Today (2025) , Today's Homeowner

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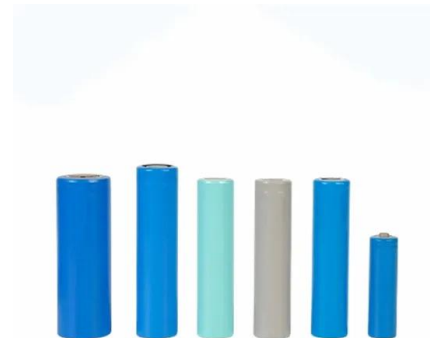


## Top 25 Solar Energy Statistics for 2024

Watch Below: Learn which countries are generating the most solar energy today and how each country's solar production has trended over the last 30 years.

## How Much Solar Energy Does the World Generate?

This article delves into the remarkable rise of solar energy from 2013 to 2024, offering insights into the key drivers behind the growth, regional trends, and the impact on daily energy production.



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