

# 30gw solar power generation



## Overview

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In 2024, generators added a record 30 GW of utility-scale solar to the U. We expect this trend will continue in 2025, with 32. power grid in 2025 in our latest Preliminary Monthly Electric Generator Inventory report. This amount represents an almost 30% increase from 2024 when 48. 6 GW of capacity was installed, the largest. The US solar industry installed 7. 5 gigawatts direct current (GW dc) of capacity in Q2 2025, a 24% decline from Q2 2024 and a 28% decrease since Q1 2025. Data source: IRENA (2025) - Learn more about this data processed This is the citation of the original data obtained from the source, prior to any processing or adaptation by Our World in Data. Khavda Renewable. Adani Green Energy Ltd (AGEL) is developing the 30 GW Gujarat Renewable Energy Park in Kutch district of India, a hybrid solar and wind power complex spanning about 538 square kilometers. Once fully built, AGEL says it will stand as the world's largest renewable energy installation by capacity and. Globally, renewable power capacity is projected to increase almost 4 600 GW between 2025 and 2030 - double the deployment of the previous five years (2019-2024).

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### [Solar, battery storage to lead new U.S. generating capacity additions](#)

In 2024, generators added a record 30 GW of utility-scale solar to the U.S. grid, accounting for 61% of capacity additions last year. We expect this trend will continue in 2025, with 32.5 GW of new utility ...

### [Renewable electricity - Renewables 2025 - Analysis](#)

Globally, renewable power capacity is projected to increase almost 4 600 GW between 2025 and 2030 - double the deployment of the previous five years (2019-2024). Growth in utility-scale and distributed ...



### [India's Ambitious 30 GW Hybrid Wind and Solar Power Plant: A ...](#)

What is evident is that India is taking bold steps toward reshaping its energy future, and this hybrid wind and solar power plant could serve as a cornerstone of its strategy. With \$18 billion at ...

### [Installed solar energy capacity](#)

Total renewable capacity (on-grid and off-grid)  
Hydropower Renewable hydropower (including mixed plants) Pumped storage (note that this is included in total hydropower capacity, but ...



[World's Biggest 30 GW Gujarat Hybrid Renewable Energy Park in India](#)

Adani Green Energy Ltd (AGEL) is developing the 30 GW Gujarat Renewable Energy Park in Kutch district of India, a hybrid solar and wind power complex spanning about 538 square ...



[U.S. adds 30 GW of PV capacity in 2024](#)

Solar has grown rapidly in the U.S. and abroad, expanding from 0.1% of U.S. electricity generation in 2010 to over 6% today, the Solar Energy Industries Association (SEIA) said. Growth



[Solar Market Insight Report Q3 2025](#)

Finally, near-term demand remains strong given constrained power supply and the increased cost of new gas generation. All of this will create demand pull-in over the next few years ...



### [US Large-Scale Solar Soars 56% YoY in 2024 with 30GW Added, ...](#)

In 2024, new installations of large-scale ground-mounted solar in the United States reached 30GW, a significant 56% increase compared to the 19GW added in 2023. This accounted ...



### [Khavda Renewable Park: The 30 GW Project Transforming India's ...](#)

Khavda Renewable Energy Park in Gujarat is set to become the world's largest hybrid solar and wind energy facility with a planned capacity of 30 GW. This article explores its progress, latest ...

### [Adani Building World's Largest Hybrid Solar & Wind Park In India.](#)

First, it is a hybrid clean energy project that will harvest electricity from both solar panels and wind turbines. Second, it will be the largest such facility in the world when complete. Third,



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