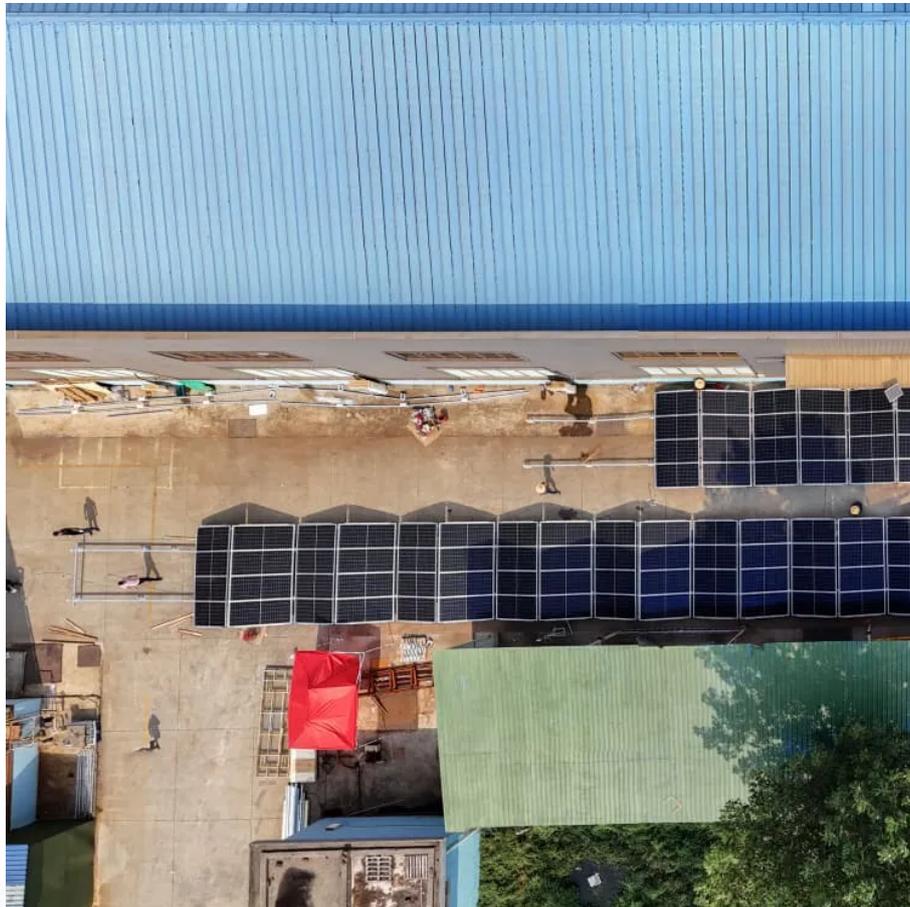


Kongres Container

U S Solar Power Generation System



Overview

Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. In 2024, utility-scale solar power generated 218.5 terawatt-hours (TWh) in the United States.

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Total U.S. electricity consumption by end-use consumers is equal to U.S. retail sales of electricity plus direct use of electricity. The U.S. Energy Information Administration (EIA) publishes data on two general types of electricity generation and electricity generation-capacity: Utility scale.

Solar and wind together accounted for 88% of new US electrical generating capacity added in the first eight months of 2025, according to data just released by the Federal Energy Regulatory Commission (FERC) which was reviewed by the SUN DAY Campaign. In August, solar energy alone provided.

The American Public Power Association is the voice of not-for-profit, community-owned utilities that power approximately 2,000 towns and cities nationwide. We represent public power before the federal government to protect the interests of the more than 55 million people that public power utilities.

The Solar Futures Study explores pathways for solar energy to drive deep decarbonization of the U.S. electric grid and considers how further electrification could decarbonize the broader energy system. The study was produced by the U.S. Department of Energy (DOE) Solar Energy Technologies

Office.

Note: Capacity values represent the amount of generating capacity at utility-scale power plants (greater than 1 megawatt). Other renewables include geothermal, waste biomass, wood biomass, and pumped storage hydropower. In our latest Short-Term Energy Outlook (STEO), we expect that U.S. renewable.

U S Solar Power Generation System

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