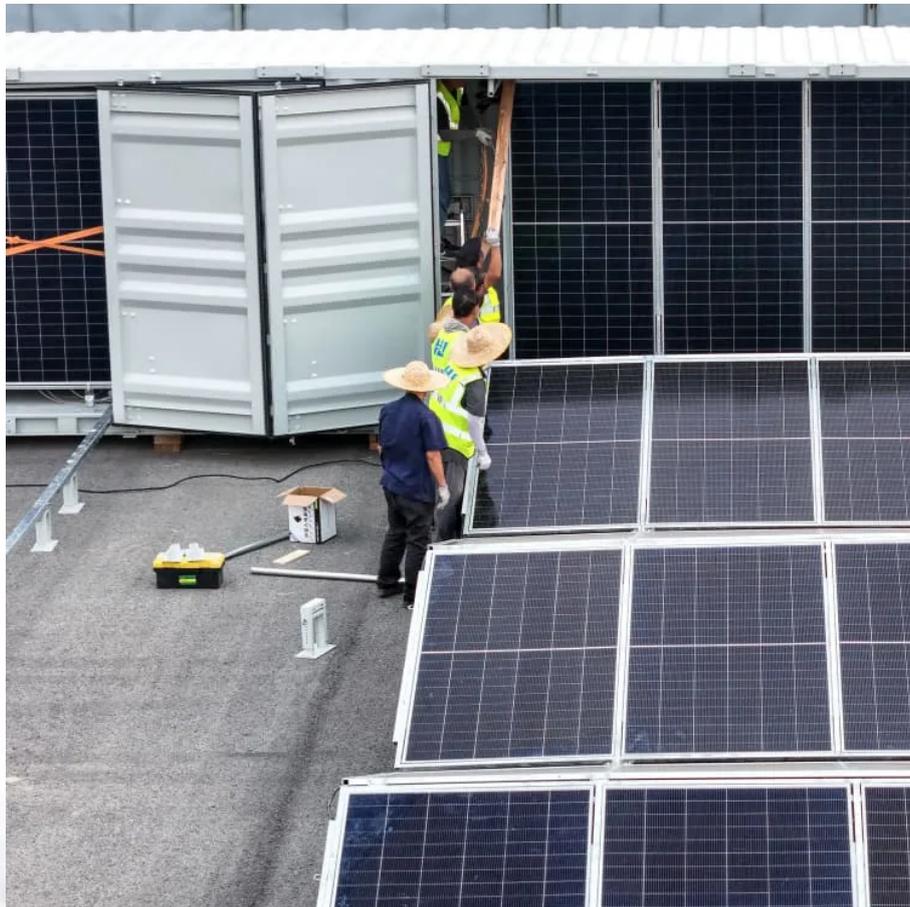


A-Core Container

Installation of solar power generation systems in the United States



Overview

How many solar installations are there in the United States?

In that same year, solar energy accounted for 55 percent of new electricity-generating capacity additions in the North American country. Of the total solar capacity installed in the U.S., over 26 percent corresponds to residential installations. This segment has grown in recent years, reaching some 4.7 million installations in 2023.

How much solar energy did the US install in 2023?

Key Highlights of the Report: Record Installations: In 2023, the U.S. experienced a remarkable year for solar energy deployment, with a total of 26.3 GWac of new PV capacity installed. This represents a significant growth compared to previous years, marking the country's continued leadership in solar energy.

What percentage of solar installations are residential?

Of the total solar capacity installed in the U.S., over 26 percent corresponds to residential installations. This segment has grown in recent years, reaching some 4.7 million installations in 2023. Increasing household electricity bills are a large motivator for the installation of residential solar systems.

What percentage of solar installations are utility-scale?

In the United States, utility-scale photovoltaics (UPV) typically represent 60%–70% of annual installations (Feldman et al. 2023b). Similarly, the Solar Futures Study (Ardani et al. 2021) indicates that most U.S. PV installations projected through 2050 are likely to be utility scale.

How many residential solar systems are there?

By 2030, there will be 10 million residential solar systems in the U.S., more than double the number of installations there are today. Residential solar has set an annual record for installations every year for the last 5 years and in 10

of the last 12 years. Today, 7% of homes in the U.S. have solar.

How many homes have solar?

Today, 7% of homes in the U.S. have solar. By 2030, this number will grow to over 15% of U.S. homes. Through 2023, there 36 GW of residential solar installed in the United States. More than half of all solar capacity in the United States was installed since 2020. In 2012, only California had over 25,000 solar systems installed.

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