

# Domestic production of photovoltaic panels



## Overview

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With 65 new or expanded solar and storage facilities having come online in 2025, the United States has surpassed 60 GW of domestic solar module production capacity, a 37% increase from December 2024. Supply Chain Gaps Remain Critical: While module assembly is strong, wafer production represents the biggest weakness in the US solar supply chain, with virtually no commercial production currently operational, forcing even “Made in USA” panels to rely on imported components. Policy-Driven Success: A Solar Energy Industries Association report indicates that the U. solar manufacturing pipeline is robust, however, Trump Administration policies, regulations and trade actions could stall progress and dampen demand for U. Solar Photovoltaic Manufacturing Map shows only active manufacturing sites that contribute to the solar photovoltaic supply chain. It details their nameplate capacities, or the full amount of potential output at an existing facility, where known. This does not imply that these facilities. Domestic solar power generation has increased over the past decade, enabled by technological advances, government support, state-level policies mandating use of electricity from renewable sources, and improved cost-competitiveness relative to electricity generation from fossil fuels. At full capacity, these factories can produce enough to meet all demand for solar in the United States. Image: Heliene Anza, a subscription-based data and analytics software platform, released its Q2 2025.

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### US solar manufacturing soars, but gaps and uncertainty persist

First Solar in late September opened a \$1.1 billion, 3.5-GW panel production hub in Alabama, pushing its domestic manufacturing footprint to nearly 11 GW -- more than all US module ...

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### Every major component of solar supply chain is now made in the U.S.

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### Solar Manufacturing Map

This map provides information about all of the solar photovoltaic (PV) manufacturing facilities in the United States and how they contribute to the solar supply chain.

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## US Solar Manufacturing: Complete

## 2025 Guide To Domestic Production

The current US solar manufacturing ecosystem represents a comprehensive network of production capabilities that extends far beyond simple panel assembly, with domestic module ...

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## Research finds that returning solar panel production to U.S. can

Manufacturing crystalline silicon photovoltaic panels in the U.S. solves logistical challenges and eases greenhouse gas problems, according to the researchers. By 2050, the solar ...

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## U.S. Solar Photovoltaic Manufacturing

Domestic panel assembly supplies a relatively small proportion of domestic demand for solar panels. The domestic solar manufacturing industry employed around 31,000 workers in 2020, ...

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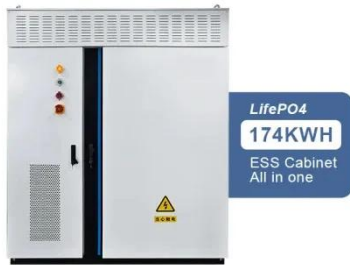


## The Power of Domestic Solar Manufacturing

Domestic solar manufacturing brings one of the fastest-growing industries in the world to U.S. workers, creating thousands of high-paying, stable jobs.

The U.S. solar industry already ...

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### United States Surpasses 50 GW of Solar Module Manufacturing ...

-- The United States has reached a historic manufacturing milestone, surpassing 50 gigawatts (GW) of domestic solar module production capacity. At full capacity, these factories can produce enough to ...

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### Solar cell production expected to double in the U.S. in less than two

Some are accelerating U.S. production timelines to take advantage of domestic content incentives and avoid tariff exposure. Boviet Solar, for example, just opened a module facility in North ...

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### U.S. Solar Manufacturing: A Supply Chain Analysis

This spreadsheet evaluates the domestic manufacturing capacity for each of the main components within the solar supply

chain, using readily available data. The domestic supply rate is ...

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