

## A-Core Container

# Production price of solar modules



## Overview

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NREL analyzes manufacturing costs associated with photovoltaic (PV) cell and module technologies and solar-coupled energy storage technologies. These manufacturing cost analyses focus on specific PV and energy storage technologies—including crystalline silicon, cadmium telluride, copper indium.

IRENA presents solar photovoltaic module prices for a number of different technologies. Here we use the average yearly price for technologies 'Thin film a-Si/u-Si or Global Price Index (from Q4 2013)'. This data is expressed in US dollars per watt, adjusted for inflation. IRENA (2025); Nemet.

Each year, the U.S. Department of Energy (DOE) Solar Energy Technologies Office (SETO) and its national laboratory partners analyze cost data for U.S. solar photovoltaic (PV) systems to develop cost benchmarks. These benchmarks help measure progress toward goals for reducing solar electricity costs.

The US solar industry installed 10.8 gigawatts direct current (GWdc) of capacity in Q1 2025, a 7% decline from Q1 2024 and a 43% decrease compared with Q4 2024 but still the fourth largest quarter on record. Solar accounted for 69% of all new electricity-generating capacity added to the US grid in.

In a new weekly update for pv magazine, OPIS, a Dow Jones company, provides a quick look at the main price trends in the global PV industry. FOB China: The Chinese Module Marker (CMM), the OPIS benchmark assessment

for TOPCon modules from China dropped 1.15% on the week to \$0.086/W Free-On-Board.

This article provides an in-depth analysis of the costs associated with solar panels, including manufacturing expenses, marketing and distribution efforts, regulatory compliance, and market dynamics. It offers valuable insights into the factors that shape the pricing strategies in the solar energy.

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