



# The latest photovoltaic panel assembly cost standards

Where can I find a report on photovoltaic modules?

This report is available at no cost from the National Renewable Energy Laboratory (NREL) at Smith, Brittany L., Michael Woodhouse, Kelsey A. W. Horowitz, Timothy J. Silverman, Jarett Zuboy, and Robert M. Margolis. 2021. Photovoltaic (PV) Module Technologies: 2020 Benchmark Costs and Technology Evolution Framework Results.

What is solar photovoltaic (PV)?

Solar photovoltaic (PV) systems accounted for the highest proportion of new electric power generation capacity in the United States in 2021.

How to expand domestic solar PV system components in a competitive global market?

Strategies for expanding domestic output of solar PV system components in a highly competitive global market include improving product performance, lowering costs of production through automation and manufacturing advancements, and developing solar panel recycling pathways.

How do advances in photovoltaic technology affect the cost of solar panels?

Advancements in photovoltaic (PV) technology not only enhance the efficiency and performance of solar panels but also influence their cost: Efficiency Improvements: Breakthroughs that increase the conversion efficiency of solar panels can reduce the number of panels needed to generate a given amount of power, affecting overall system costs.

What is ATB data for utility-scale solar photovoltaics (PV)?

2022 ATB data for utility-scale solar photovoltaics (PV) are shown above, with a Base Year of 2020. The Base Year estimates rely on modeled capital expenditures (CAPEX) and operation and maintenance (O&M) cost estimates benchmarked with industry and historical data.

Do small-scale installers in the residential sector have a larger PV system?

We infer the predominance of small-scale installers in the residential sector using data on residential system financing (Wood Mackenzie 2022b). The higher efficiency of modules assumed for Q1 2022 (CA NEM 2022) results in larger residential PV system sizes compared with systems in Q1 2021.



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