

New solar photovoltaic panels in the United States





Overview

The Major Solar Projects List is a database of all ground-mounted solar projects, 1 MW and above, that are either operating, under construction or under development. The list is for informational purposes only, reflecting projects and completed milestones in the public domain.

SEIA makes major solar project data available to the public through the map below. SEIA members have exclusive access to the list as a sortable, searchable MS Excel file that is.

SEIA does not guarantee that every identified project will be built. Like any other industry, market conditions may impact project economics and timelines. SEIA will remove a project if it is publicly announced that it has been canceled. SEIA actively.

Who makes solar panels in the USA?

Here's more information about five of the biggest, best companies that make solar panels in the USA. The top five solar panel manufacturers in the U.S. are First Solar, Qcells, Canadian Solar, Illuminate USA, and T1 Energy. These companies produce high-performance solar panels for residential, commercial, and utility-scale installations.

How many residential PV systems are there in the United States?

At the end of 2023, SEIA estimates there were nearly 5 million residential PV systems in the United States. 3.3% of households own or lease a PV system (or 5.3% of households living in single-family detached structures). Sources: U.S. Energy Information Administration, "Electric Power Monthly," forms EIA-023, EIA-826, and EIA-861.

What is the US large-scale solar photovoltaic database?

The U.S. Large-Scale Solar Photovoltaic Database provides the locations and array boundaries of U.S. photovoltaic facilities, with capacity of 1 megawatt or more.

How many Americans have already installed solar panels?



A January Pew Research Center survey found that 8% of U.S. homeowners said they have already installed solar panels and an additional 39% have given serious thought to it in the past year. The survey was conducted before the 30% federal tax credit became law in August.

Where are solar panels installed?

Workers install solar panels on the roofs of homes under construction south of Corona, California, in May 2018. (Will Lester/Inland Valley Daily Bulletin via Getty Images) President Joe Biden recently signed into law new legislation that includes larger investments in renewable energy and measures to address climate change.

How much does a solar panel installation cost?

The average installation cost of a residential solar panel system so far this year can range from \$16,870 to \$23,170 after applying the federal solar tax credit, according to EnergySage, though other factors, such as the type of solar panel, can affect the price.



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[The State of the Solar Industry](#)

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[American Solar Manufacturing Is Back, and It's Big - SEIA](#)

The wave of new solar panel factories is also creating demand for new factories to produce inputs, finally overcoming perhaps the biggest industry challenge, a classic chicken ...

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[The U.S. Large-Scale Solar Photovoltaic Database](#)

The United States Large-Scale Solar Photovoltaic Database (USPVDB) provides the locations and array boundaries of U.S. photovoltaic (PV) facilities with capacity of 1 megawatt or more. It ...

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[New solar plants expected to support most U.S. electric ...](#)

In our latest Short-Term Energy Outlook (STEO), we expect that U.S. renewable capacity additions--especially solar--will continue to drive the growth of U.S. power ...



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[U.S. Government Unveils Database, Interactive Map of All](#)

All large-scale solar energy facilities can now be found on a single map thanks to a collaboration between the U.S. Geological Survey and the U.S. Department of Energy's ...

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[US Sets Tariffs for Solar Panels From Southeast](#)

Most solar panels installed in the United States are made overseas, and some 80% of imports come from the four nations targeted in ...

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[FERC: Solar + wind made up 91% of new US power generating...](#)

Solar and wind accounted for 91% of new US electrical generating capacity added in H1 2025, according to data just released by FERC.

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[Solar manufacturing giants building, to build facilities in the US](#)

At the beginning of 2023, JA Solar announced that it had invested \$60 million in a 2-GW solar module manufacturing line in Phoenix, Arizona, which is projected to come into ...

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[Home solar panel adoption continues to rise in the U.S.](#)

While residential solar power currently generates just a fraction of the country's overall electricity, it has continued to grow rapidly in recent ...

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[Solar leading new power source for eighteen months and counting](#)

A review by the Campaign of the Federal Energy Regulatory Commission's latest Energy Infrastructure Update shows that solar photovoltaics supplied nearly 75% of all new ...

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U.S. solar manufacturing boom "real -- but fragile," ...

The United States is now the third-largest solar module manufacturer in the world, and more growth is on the way. Clean Energy ...

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Efficient Higher Revenue

- Max. Efficiency 97.5%
- Max. PV Input Voltage 600V
- 500W Peak Output Power
- 240V Transformers, 500W DC Input Overvoltage
- Max. PV Input Current 15A, Compatible with High Power Modules

Intelligent Simple O&M

- IP68 Protection Degree: support outdoor installation
- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- DC & AC Type II SPDs prevent lightning damage
- Battery Reverse Connection Protection

Flexible Abundant Configuration

- Plug & Play, UPS Switching Under 10ms
- Compatible with Lead Acid and Lithium Batteries
- Max. 6 units Inverters Parallel
- AFCI Function (Optional): when an arc fault is detected the inverter immediately stops operation

Record numbers of solar panels were shipped in the ...

U.S. solar panel shipments closely track domestic solar capacity additions; differences between the two usually result from the lag time ...

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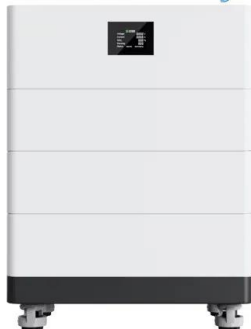
Best Solar Companies of 2025

Best Solar Companies of 2025 Finding a good solar installer to install solar panels on your home is key. Here are CNET's picks for the best national and regional ...

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High Voltage Solar Battery



Top 5 American solar panel manufacturers in 2025

The top five solar panel manufacturers in the U.S. are First Solar, Qcells, Canadian Solar, Illuminate USA, and T1 Energy. These companies produce ...

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[Solar Energy in the United States: 2024 in Review](#)

Solar energy has continued to grow rapidly across the United States in 2024, cementing its position as a crucial component of the nation's ...

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[Ranking of U.S. solar PV plants by capacity 2024. Statista](#)

Other major photovoltaic power projects in the country are located in Texas and California. Solar PV accounts for the vast majority of solar energy capacity in the United States.

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[Top 5 American solar panel manufacturers in 2025](#)

The top five solar panel manufacturers in the U.S. are First Solar, Qcells, Canadian Solar, Illuminate USA, and T1 Energy. These companies produce high-performance solar panels for ...

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[Home solar panel adoption continues to rise in the U.S.](#)

While residential solar power currently generates just a fraction of the country's overall electricity, it has continued to grow rapidly in recent years, despite COVID-19-related ...

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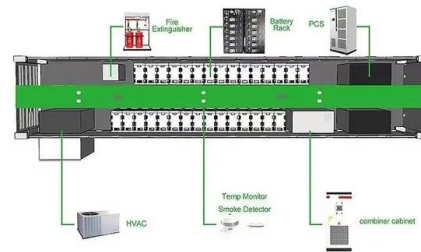




[End-of-Life Solar Panels: Regulations and Management](#)

Solar panels provide clean, renewable energy from the sun, and their prevalence as an energy source has been growing. In 2020, solar panels ...

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[\[2025\] Top 12 Biggest Solar PV Farms in USA](#)

Discover the top 10 solar PV module manufacturer companies in 2025, featuring American-made solar panels and industry leaders like First Solar and LONGi Green Energy.

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Solar State By State - SEIA

Solar State By State Explore the latest solar market insights and policy updates in all 50 states and Washington, D.C. All market data is current through Q4 2024.

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