



Solar power success stories

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Solar Energy Success Stories: Real-Life Case Studies

Six stories show renewable energy underpins a climate-friendly future

EERE Success Story--Concentrating Solar Power Transforms Food Processing, ...

The NREL team has analyzed data from nearly 19,000 inverters from commercial, ...

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The sun sets on a photovoltaics array in the mountains at the National Renewable Energy Laboratory (NREL) in Colorado. Photo by Werner Slocum, NREL

Learn about SETO's American-Made Solar Data Bounty Prize, which is open to U.S.-based PV system owners and entities authorized to share data from PV systems.

Over the last three years, 2,200 solar sites, about 10% of all non-residential photovoltaic (PV) systems, have had their performance recorded and logged every 15 minutes. What can we learn from that immense trove of information? Understanding how these systems age and perform in different environments has led to more efficient operation of PV installations and will help deploy more projects across the country.

The PV Fleet Performance Data Initiative (PV Fleet), a \$5.25 million project led by the National Renewable Energy Laboratory (NREL) with support from the U.S. Department of Energy Solar Energy Technologies Office (SETO), was launched in 2019. The NREL team has analyzed data from nearly 19,000 inverters from commercial, industrial, and utility-scale systems to identify which factors impact long-term solar PV system performance across the country, including module technology, system size, and geographical location.

In addition to analyzing the national PV fleet, the initiative provides confidential, detailed assessments of system performance to partnering PV plant owners and operators. System owners can use this information to benchmark their performance against the industry average, leverage software tools developed by NREL and other national labs to better understand which factors contribute to their fleet's performance, and to improve the efficiency of their operations.



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This data also improves the accuracy of financial assessments for current and future PV power plants by providing better inputs to the estimates of how much power a solar system may produce over its lifetime. Performance assessments of PV systems impact profit estimates and financing estimates, so knowing how PV systems are expected to perform in particular locations, using a specific technology, for their complete lifetimes is crucial for the valuation of those systems before they are installed. Accurate PV system performance assessments can boost solar deployment by attracting investors and project developers.

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