## **Utility-scale solar fonafote**



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Solar energy--power derived from the sun--is a vast and inexhaustible resource that can supply a significant portion of domestic and global electricity needs. In addition to being a vital source of clean energy, utility-scale solar power creates American jobs, drives innovation, and strengthens our economy.

## Explore solar power resources

In the United States, utilities and companies across the country are investing in utility-scale solar farms to capture the sun"s energy at a larger scale.

Utility-scale solar is a major economic contributor. The industry has invested nearly \$195 billion in projects nationwide.

Solar projects also contributed \$739 million in state and local taxes and land-lease payments last year alone.

The solar industry employs 261,000 hard-working Americans across all 50 states.

Utility-scale solar helps avoid 125 million metric tons of CO2 emissions annually--equivalent to taking 28 million cars off the road.

The U.S. solar industry employs America's veterans at a rate higher than the national average.

There are two primary types of solar energy technologies in use today: solar photovoltaic (PV) and concentrating solar thermal power (CSP). Each has its own distinct use and application.

Solar PV is the primary type of solar energy being deployed in the U.S. and around the world. PV cells, typically made of silicon, are sandwiched between a combination of glass or plastics and connected together to form larger solar panels or modules.

Solar PV modules are further interconnected to form arrays of varying sizes--from a dozen or more modules on a typical rooftop residential system to upwards of hundreds of thousands at larger, commercial and industrial utility-scale solar projects.

Most solar PV projects use single-axis tracking systems that let panels track the sun along a single line as it moves across the sky, improving production. More sophisticated, dual-axis systems rotate panels in two directions, capturing even more sunlight throughout the day.

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## SOLAR PRO.

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