



# Solar panels energy

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Solar technologies convert sunlight into electrical energy either through photovoltaic (PV) panels or through mirrors that concentrate solar radiation. This energy can be used to generate electricity or be stored in...

Each particle of sunlight contains energy that fuels our planet, but to power your home, it has to be captured and converted into what we call "usable electricity." Solar panel systems do precisely that. Solar...

There are several ways to turn sunlight into usable energy, but almost all solar energy today comes from "solar photovoltaics (PV)." Solar PV relies on a natural property of "semiconductor" materials like silicon,...

Solar photovoltaic (PV) uses electronic devices, also called solar cells, to convert sunlight directly into electricity. It is one of the fastest-growing renewable energy technologies and is playing an increasingly...

Millions of Americans are deciding to power their homes with solar energy--especially as costs have decreased--but an investment in solar energy generates more than just clean energy. It can support household savings, energy independence, economic opportunities, grid reliability, resilience, security and affordability, and a safer planet.

Solar owners can reduce their energy bills with savings that will accrue for the lifetime of the system. Community solar can provide savings for those who rent their homes or whose roofs aren't suitable for solar panels.

The solar industry--from manufacturing to installation and maintenance--can get more people into careers in clean energy, launch small businesses, and contribute to growing local economies.

Having solar panels can give you the freedom to disconnect from the grid, and if combined with storage or microgrids--localized grids that can operate autonomously--it can help whole communities prevent service disruptions and rapidly restore electricity if the grid goes down.

Owning your solar system is a cost-effective option for millions of Americans, and new models for financing and community solar programs will enable households and communities that lack access to solar electricity to choose their energy future. DOE is also helping to standardize how solar electricity is interconnected to the power grid at the grid edge between the consumer and the utility.

DOE plays a crucial role in the growth of U.S. solar energy, partnering with hundreds of private companies, utilities, universities, federal agencies, state and local governments, nonprofit organizations, and national laboratories to fund cooperative research, development, demonstration, and deployment projects that drive down the cost of solar electricity.

SETO funds projects at national laboratories, state and local governments, universities, nonprofit organizations, and private companies to improve the affordability, reliability, and domestic benefit of solar technologies on the grid.

Active projects are indicated on the map and database table below. You can sort the projects by program area, funding opportunity, and state on the left. In the table, you can sort and filter the projects in additional ways. Click on the project title for detailed project information. Press the reset button on the map to clear your filters. Reports resulting from research projects can be found on the Office of Science and Technical Information (OSTI) website.

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