Home use solar panel

Despite being a leading clean energy technology, there is still a lot of mystery surrounding installing home solar panels. There are several benefits to getting solar panels for your home, like electricity bill savings and powering your home with clean energy.

That being said, residential solar is an investment that costs around $18,000 and comes with plenty of do"s and don'ts. That"s why our team of solar experts put together this comprehensive solar panels for home guide to help homeowners like you figure out what you need to know before getting home solar.

The installation cost of solar panels and electricity bill savings depend on local electricity rates, the solar company you choose, how much sunlight your roof gets, and the rebates and tax incentives available near you.

Solar panels produce electricity through a process called the photovoltaic effect. Most home solar panels are made of silicon, a semiconductor material. When sunlight hits the silicon in solar panels, the electrons get excited, generating an electric current that goes to a solar inverter and is then used to power appliances and devices.

If your solar panels produce more energy than your home needs, the extra solar energy can be sent to the utility grid or stored in an energy storage system.

Exactly how the solar panel system works with your home and the electric grid will depend on the type of solar panel system you have. There are three main types of home solar systems: grid-tied, hybrid (or solar-plus-storage), and off-grid. The following videos outline how different solar system types work:

Listen, we"re solar people, so we"d love to tell you that you should just go out and get panels on your roof. But we"re also honest: solar panels aren"t for everyone. Solar panels have several pros and cons that can impact your decision to go solar.

Even if home solar panels are the right choice for you, there are some things you need to consider before installing them. Here are the top things our solar experts think you should understand before getting home solar panels.

A fully installed 6 kilowatt (kW) solar panel system costs about $18,000 before any incentives or rebates are considered and saves an estimated $1,500 annually on average.

Solar panel prices are usually measured in "cost per watt of solar installed," with a normal price for home solar sitting between $2.60 per watt and $3.35 per watt when paying with cash. The following table outlines estimated solar costs and savings for different-sized solar systems:

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