



## TOP 8

## REASONS WHY SOLAR PANELS ARE BENEFICIAL?

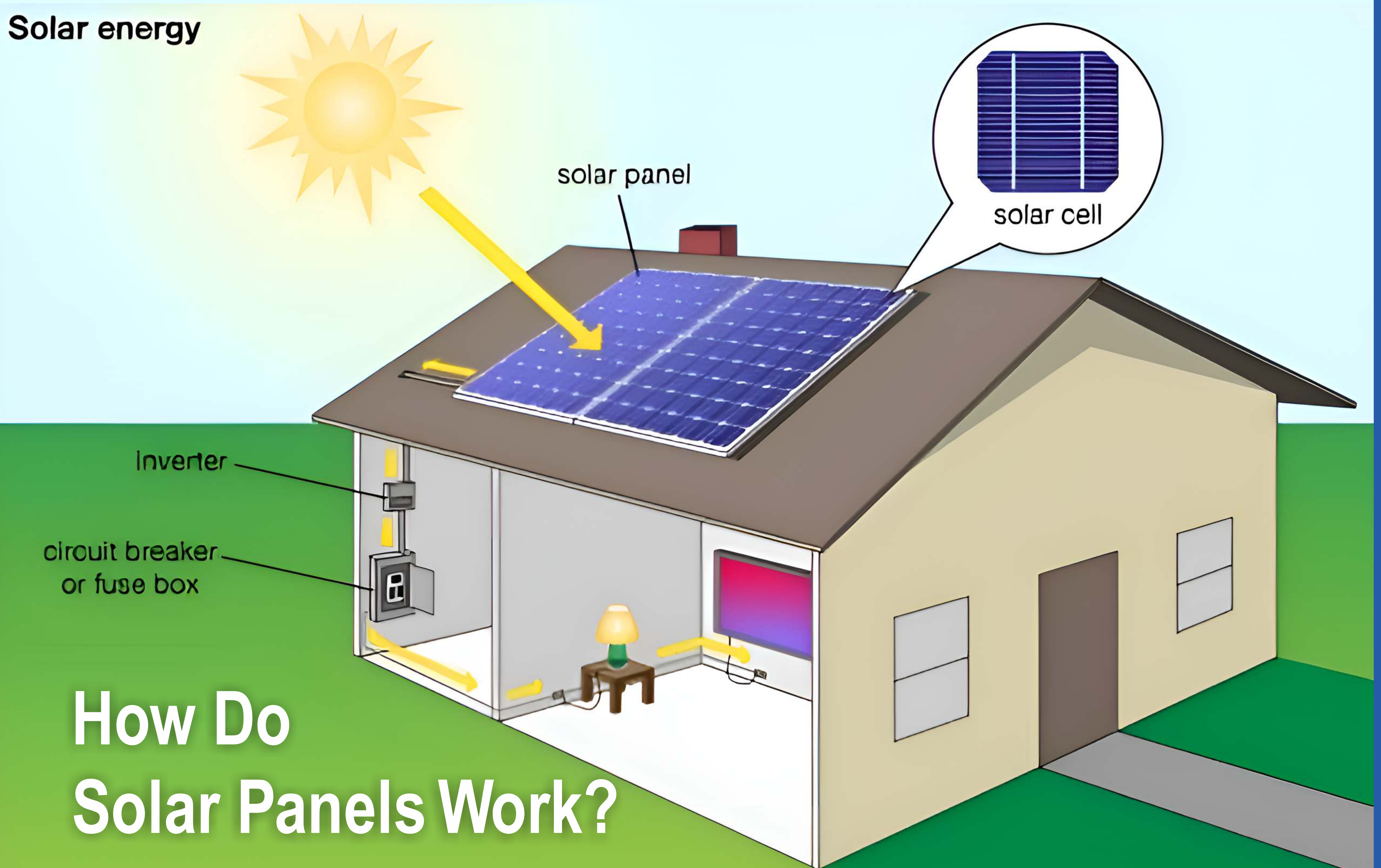


1. **Solar energy is clean & green energy** There is some pollution during electricity generation or other sources of energy and it damages the environment due to pollution. On the other hand, there is no such difficulty in the origin of solar energy.
2. **Not dependent on other sources of Energy** After solar energy came into existence and its increased use, the pressure on other energy sources has come down, which is a good sign for both the ecosystem and the environment.
3. **Non-maintenance** Solar power systems do not require much maintenance. Just needs to be cleaned twice every year, but it should be kept in mind that cleaning should always be done by experts who know this work well. Inverters are also a part of the system, to be replaced in five to 10 years, that is, very little is spent on maintenance and repair work in addition to the initial cost.
4. **Safer than Other** Solar power is more secure than conventional power sources, whether it is for use or maintenance and repair.
5. **Renewable Energy** Solar energy is actually a source of renewable energy. It can be used in every corner of the world, i.e. it is always available. Solar energy is a never-ending energy source
6. **Electricity Bill Reduction** Since you will meet all your energy needs with electricity generated from solar energy, you will get relief from the huge cost of the electricity bill. How much you can save on your bill depends on your needs.
7. **Maximum Usage** Solar energy is used for various purposes. Anything can generate electricity or heat (solar thermal) by solar energy. Can deliver electricity to areas without electricity, use it in factories, supply clean water, use it in household chores, use for space satellites.
8. **Technology Development** Industrial growth has increased due to the ever-increasing use of solar energy and it is expected to grow rapidly in the future. Altogether, the use of solar panels let you save electricity and get rid of huge electricity bills just by utilizing the natural energy resource i.e.

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## DEALS IN SOLAR PANELS

Solar energy



## How Do Solar Panels Work?

When the sun shines on a solar panel, solar energy is absorbed by individual PV cells. These cells are made from layers of semi-conducting material, most commonly silicon. The PV cells produce an electrical charge as they become energised by the sunlight. The stronger the sunshine, the more electricity generated. But cells don't need direct sunlight to work and can even work on cloudy days. This electrical charge creates a direct current (DC) of electricity. The direct current passes through a solar inverter to turn it into alternating current (AC) electricity. You need AC electricity to run your household appliances.

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## SOLAR PANEL INSTALLATION

A solar panel installation for a home involves a multi-step process including mounting, wiring, connecting to an inverter, and potentially a battery and the grid. The number of panels needed depends on energy consumption, with 3kW systems suitable for average homes and larger systems (5-7kW) for higher usage. A general guide includes mounting the panels, wiring them, connecting an inverter, and potentially a battery, then connecting to the main power panel or grid.

Installation in India varies based on several factors, including system size, panel type, and location. Generally, you can expect to pay between Rs. 45,000 to Rs. 70,000 per kilowatt (kW) for installation. This translates to roughly Rs. 75,000 to Rs. 85,000 for a 1kW system Rs. 1,50,000 to Rs. 1,70,000 for a 2kW system and so on.

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## BENEFITS OF SOLAR PUMP

The cost of installing a solar water pump varies significantly based on several factors, including pump capacity, type (surface, submersible, borehole, etc.) and brand. Generally, a basic solar water pump system can range from Rs. 1 Lakh to Rs. 5 Lakhs, depending on the specific requirements and power output.



### Price Ranges (General Estimates):

- 1 HP Solar Surface Pump: Rs. 90,000 - Rs. 1,20,000
- 1 HP Solar Submersible Pump: Rs. 1,00,000 - Rs. 1,40,000
- 3 HP Solar Borehole Pump: Rs. 2,00,000 - Rs. 2,80,000
- 5 HP Solar Irrigation Pump: Rs. 3,00,000 - Rs. 4,50,000
- 3 HP Solar Submersible Pump: Rs. 1,60,000 - Rs. 2,20,000 (according to KLK Ventures)
- 5 HP Solar Submersible Pump: Rs. 2,30,000 - Rs. 2,90,000 (according to KLK Ventures)
- 10 HP Solar Submersible Pump: Rs. 5,00,000 - Rs. 6,10,000 (according to KLK Ventures)

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## DEALS IN SOLAR PANELS

*"In order to further sustainable development and people's well-being, we are launching the PM Surya Ghar: Muft Bijli Yojana. This project, with an investment of over Rs. 75,000 crores, aims to light up 1 crore households by providing up to 300 units of free electricity every month."*

**Shri Narendra Modi**  
Hon'ble Prime Minister of India



## SUBSIDIES ON SOLAR PANEL FOR HOME

### TYPE OF PANELS:

Monocrystalline panels are generally more expensive than polycrystalline or thin-film panels but offer higher efficiency.

**Inverter Type:** Different inverter types (string, Microinverters, Power Optimizers) have varying costs.

**Installation Complexity:** Roof type, angle and accessibility can influence installation costs.

**Location:** Regional differences in labor rates and regulations can impact the final price. Government

**Subsidies:** Central and state government subsidies can significantly lower the upfront cost of solar panel installations.

**Approximate Cost Breakdown:** A 3kW on grid solar system can cost around Rs. 2.18 Lakh onwards, with a subsidy potentially reducing it by Rs. 78,000. For a 3kW system the price range can be between Rs. 1.80 Lakh and Rs. 2.15 Lakh . Some sources estimate the cost between Rs. 1.23 Lakh and Rs. 2.15 Lakh. APN Solar states a 3kW system could cost Rs.1.2 lakh to Rs. 1.5 lakh before subsidies.

**Example:** A 3kW system with a 40% subsidy could potentially cost around Rs.73,787.

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