



# WHAT IS SOLAR POWER



## Solar Power what are its Benefits and Drawbacks



## **What is solar power?**

Solar power is a renewable energy source that uses sunlight to generate electricity. This is done through photovoltaic (PV) cells, which are found in solar panels.

## **How does solar power work?**

Solar panels absorb sunlight and convert it into direct current (DC) electricity. An inverter then changes this to alternating current (AC), which powers your home or business. Any unused energy can be stored in a battery (if installed) or sent back to the grid.

## **What are the benefits of solar energy?**

- Produces clean, emission-free electricity
- Reduces electricity bills
- May increase property value
- Offers some independence from rising energy prices
- Quiet operation with low maintenance
- Eligible for government rebates and feed-in tariffs (where available)

## **What role do batteries play?**

Batteries store excess solar energy for use at night or during blackouts. They are especially useful in households with high evening power use and are becoming more cost-effective over time.

## **What are the challenges?**

- High upfront costs for panels and batteries
- Performance depends on sunlight availability
- Requires adequate roof or land space
- Battery storage can be expensive and requires space
- Not all properties are suitable for installation

## **Is solar power a good investment?**

This depends on your location, energy usage, budget, and long-term goals. Homes with high energy costs and good sun exposure often see strong returns over time. While the initial cost can be significant, long-term savings and environmental benefits make it a worthwhile consideration for many households.



If you have any other  
questions just **ASK**