



# SHUBHITHA S ENERGY SOLUTIONS

Brings Sun Energy at your service



## OUR SERVICES

- Solar PV rooftop installations for both ON and OFF Grid systems
- Solar water pumping systems for Agriculture
- UPS systems for power backup
- Supplying of solar modules, Inverters & all type of Batteries
- Power Audits
- Proposals for cost benefit analysis

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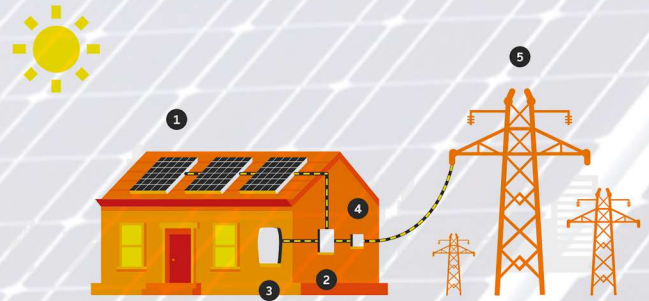


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## On-Grid Solar System

Today, grid tied systems are the most common type of photovoltaic systems. This solar power system is directly connected to the home and to the traditional electric utility grid. Grid inter-tied systems allow the homeowners to get power from either the home electric system or the utility grid. Switching between the residential system and the grid is seamless.

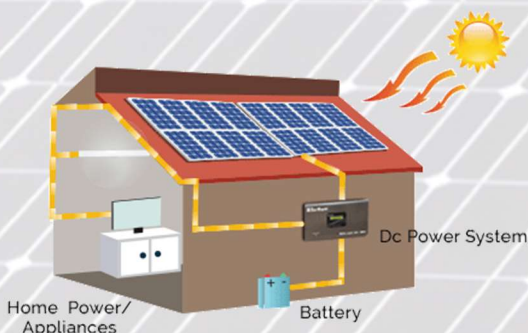
The prime advantage of this type of system is the ability to balance the system production and home power requirements. When a grid inter-tied system is producing more power than the home is consuming, the excess can be sold back to the utility in a practice known as net metering. When the system is not producing sufficient power, the home can draw power from the utility grid.



## Off-Grid Solar System

An off-grid solar system provides electricity at all times. This system is completely disconnected from the traditional electric power grid. Without a connection to the utility grid, batteries are essential to balance periods of excess production and excess demand.

The addition of an inverter allows the system to convert DC (Direct Current) coming from the batteries into AC (Alternating Current). The photovoltaic system ensures that we never face power cuts and can be installed in any location with good solar irradiance.



**Solar Energy is the Future**





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## Solar Water pumping Systems for Agriculture

*We supply and install Solar Pump Systems at your farms*

A solar water pump is an application of photovoltaic technology which converts solar energy into electricity to run the pumping system thereby, replacing erratic grid supply and pollution-causing diesel-powered versions. The solar water pump is powered by solar modules that helps draw surface or ground water out for irrigation. It increases their crop yield by ensuring a reliable and perennial supply of water to their fields.



## UPS systems for Power backup

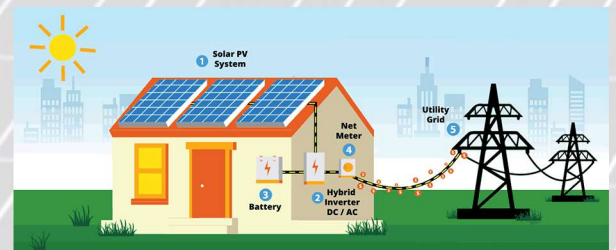
*We supply and install UPS Systems for offices, colleges, schools*

An uninterruptible power supply or uninterruptible power source (UPS) is an electrical apparatus that provides emergency power to a load when the input power source or mains power fails. UPS is typically used to protect hardware such as computers, data centres, telecommunication equipment or other electrical equipment where an unexpected power disruption could cause injuries, fatalities, serious business disruption or data loss.



## Hybrid Solar System

When choosing a solar power system, most households and businesses choose either a grid-connected or an off-grid system. But there's a third option. A hybrid solar system combines the best of both worlds: the convenience of a grid connected system — including the ability to earn from the Net Metering — with the extra peace of mind of a battery backup.



**Solar Energy is the Future**





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## BENEFITS FOR SOLAR ROOF TOP INSTALLATION

1. Less Impact to the Environment
2. Save On Utility Bills
3. Reliable Energy Source
4. Low Maintenance Costs
5. Attractive secured returns for 25 years
6. Easy Installation
7. Opportunity to earn money from roof
8. Performance Guarantee
9. Economic Savings
10. Tax Depreciation
11. Avoid CO2 Emissions



### Sample calculation of units for a 5 kW solar plant:

Average number of units/day/kW = 4 units

For 5 kW =  $4 \times 5 = 20$  units per day

For a month =  $20 \times 30 = 600$  units

Present day tariff (charges) = Rs 8.50/- per unit

Saving per month =  $600 \times 8.50 = \text{Rs } 5100/-$

**\*Avail MNRE Subsidy**

@ 40% upto 3 kW

@ 20% more than 3 upto 10kW  
on 'benchmark price'

\* Conditions apply

**Solar Energy is the Future**