

Solutions for Rural Electrification Programme



Rural electrification is a vital programme for economical development of rural areas. The objective are to trigger economic development and generate employment by providing electricity as an input for productive use in agricultural and rural industries, and improve the quality of life of the rural people by supplying electricity for lighting of homes, shops, community centres and public places in the village.

Rural Electricity involves supply of energy for two types of programmes:

- Production oriented activities like minor irrigation, rural industries etc.;
- Electrification of villages.

We can offer the different solutions, for different scheme of rural electrification program,

Scheme 1 – Solutions for Individual houses.

- This can be applicable for any number of houses.
- We will provide solutions based on solar power
- We can provide one or two CFL lamps and one DC fan for 5 to 6 hrs. running.
- The system contains solar module, batteries, CFL lamps, DC Fan and cable.

Scheme 2 – Solutions for 50 or More houses in cluster.

In this case a centralized solar power plant of 4 to 5 KW is installed and through small distribution network, power can be supplied to all houses.

- In each houses we can run 2 nos. CFL for 5 to 6 hrs and 1 DC fan for 2 hrs.
- If sufficient wind is available, we can supply wind solar hybrid power plant also.
- The plant can be used in multiplication, if there are more houses
- The system is almost maintenance free and no special manpower required.



Scheme 3 – Solutions for 200 houses in cluster

- In this case a centralized solar power plant of 30 to 35 KW is installed and through small distribution network, power can be supplied to all houses.
- In each houses we can run 2 nos. CFL for 5 to 6 hrs and 1 DC fan for 2 hrs.
- If sufficient wind is available, we can supply wind solar hybrid power plant also.
- The plant can be used in multiplication, if there are more houses say 250 or 300.
- The system is almost maintenance free and no special manpower required.

Benefits of the Solutions:

- No transmission lines.
- No Long distance distribution lines.
- Very small house wiring.
- No application to any electricity authority.
- No meter rent and minimum fixed charge.
- Electricity will be almost free of cost.
- Very small Capital investment.
- The system is almost maintenance free.

Products Approved by:



PERI GUARD™ (Periphery Guard - Solar Fencing)

The PERI GUARD is a modern day alternative to conventional methods of fencing to protect your crops & property. Electric Fence is an effective way to reducing losses caused by animals.

How does PERI GUARD Work?

When an animal or human being comes into contact with the electric Fence, they receive a sharp, short but safe electric shock. The shock does not cause any physical damage. The electric fence acts as a strong barrier as any intruder avoid coming into contact with the electric Fence once they experience the shock.

Features :

- PERI GUARD is a security system. It is very useful for farmer for protecting their Farms & valuables crops from wild animals. It can also be used in bungalows & Townships.
- PERI GUARD is very simple to install, once it is installed around farms ,no one can enter in that Farm.
- PERI GUARD is fully automatic & it is operated by 12V/12Ah Battery & Solar so, there is no hidden cost after installation.
- In the Day PERI GUARD Automatically turns OFF & after sunset it automatically turns ON. (Also can be switched on in day time if customer desires so.
- When any animal or person touches the live fence wire they gets impulse type shock, but it is not harmful to them.
- When animal touches the live fence wire, alarm turns on from peri guard.
- The product is government approved.
- No power required as Solar base charging system.
- No special maintenance required.
- Covers up to 40 to 50 acres of area.



Water Pumping Solutions

We can also offer solution for water pumping based on solar and wind.

- This system is with battery or without battery, depends upon the technology. Battery less system, is solar based, can be used only during the day time. It can be used for emergency backup, or in a location where there is no AC power.
- Different types of pumps are available for different head.
- Water pumping is also possible through direct wind turbine connected with hand pump. Also electrical submersible can be run by generating power from wind turbine.