



## ABOUT SOLEN

Solen Consultancy Services is an Engineering and Technology Consulting company formed by Engineers with extensive experience in Project engineering in India and internationally.

Our area of expertise include Industrial Automation (PLC, SCADA, DCS), Solar Energy and Software testing services.

We provide Project services from Bid proposals to Commissioning. We also provide Operation and Maintenance services.

***Solen focuses on Solar energy systems, be it Water heating, Street Lighting or Electricity generation, for residential, commercial or Industrial customers.***

## WHY US

At Solen Consultancy Services we will be highly delighted to meet you to understand your Solar energy requirements, be it for your residence, commercial complex, Institutes, Industries or public needs such as street lights.

We will provide a proposal with the best technical solution and an estimation **Free of Cost** and without any obligations.

Solen has partnered with companies working in the Solar field and execute projects as one team. We also collaborate with local companies to provide timely services when required.

During project execution we will extend support to apply for Net Meter with MSEDCL and also to MNRE for Subsidies as applicable.

We will provide Operation and Maintenance services where required.

After the project we will always be there to support you in every possible way be it for the executed project or for new initiatives.

## SOLAR VISION

Our Solar vision is to generate clean energy to help reduce dependency on Fossils thereby reducing Carbon excavation and emissions into the environment.

We believe that our future generation deserve a clean and healthy environment and WE have the responsibility to provide that to them.

## PHILOSOPHY

Our philosophy is to provide **smart technical solutions** to our Customers that will be **sustainable and affordable** and fulfill all their needs.

We will execute every project in a most efficient manner in terms of time and budget and customer's satisfaction will be our greatest return.

Safety of Human, Equipment and Environment will be our focus and **Zero incidents** will be our goal.

## ADVANTAGES OF SOLAR SYSTEMS

- **Long term gains for about 25 years.**
- **Monetary gains through savings on energy and almost free energy for rest of the life span**
- **Accelerated depreciation 80% for first year and 20% for second year**
- **MNRE subsidy up to 30% of project cost**
- **Tax holidays for commercial and industrial customers**

## ENVIRONMENTAL BENEFITS

It is estimated that every **one KW renewable energy generated in a year reduces 1 ton of CO<sub>2</sub> emission in the air.**

**This also corresponds to plantation of 2 trees every year.**

Solen shares India's aim of reducing Green house emissions by 35% and generate 40% of electricity from non-fossil sources by 2030.

Solen will work towards these targets for a better and cleaner environment for us and for our future generations.

## SOLAR POWER SYSTEMS

### OFF GRID

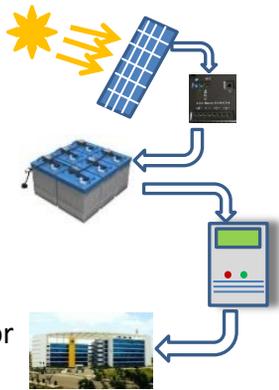
**Captive:** All the solar generated electricity is used directly to power electrical devices.

This is particularly used in offices or commercial complexes where there is high demand of Power during day time.



**With Battery Storage:** All the generated electricity is stored in battery bank and used either continuously or as backup when there is no supply from State electricity agency.

This type of configuration is used in residences, offices or commercial complexes where continuous supply of electricity is desired. But due to battery bank, the cost increases including that for maintenance as well.

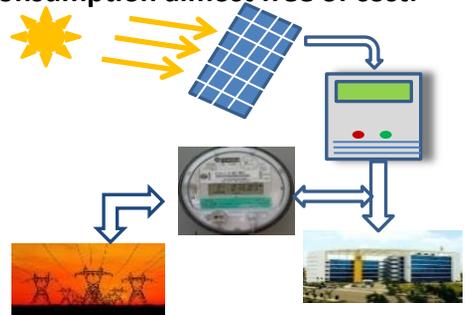


### ON GRID

**Net Metering:** The electricity generated is either used for active load or if extra power is generated then that is exported to Grid.

Later when Solar is not generating, supply from Grid (import) is used. The net difference of Import and Export will decide bill for electricity.

**This is becoming very popular as it could make your electricity consumption almost free of cost.**



## SOLAR WATER HEATERS



### Evacuated Tube Collectors

### Flat plate Collectors

Heat energy from Sun is absorbed and transferred to water. Auxiliary heaters (electric, heat pump) can be installed for cloudy days.

## STREET LIGHTING

Solar panels mounted on top of the pole convert sunlight into electricity which charges battery. When the sun goes down light turns on. It can be programmed to run the light all night, or for the required time duration.



## SITE PHOTOS



Office Rooftop

Restaurant Rooftop

Residence Rooftop

Industry Rooftop