

## SOLAR

### **Benefits of A Solar Powered India:**

India's current power deficit stands at approximately 10%, which comes up to almost 12,000 MW at peak excess demand over supply. Also the pace of new demand growth for electricity is far outpacing the growth in supply to India's various DISCOMs. Solar – with its infinite availability and India's favorable environment conditions is perfectly poised to bridge that gap. Reduce Import Dependence such as foreign coal and diesel.

Almost one-thirds of India's power is sourced from imported commodities such as foreign coal and diesel. With rising problems over Coal production in India and ever-rising oil prices, the current rate of increasing imports to reduce the energy deficit is not only unsustainable but also harmful to economic factors such as the Current Account Deficit that leads to rising inflation and lower purchasing power of the Indian currency. Almost 3/4<sup>th</sup> of all diesel used in generation is imported in our country. Solar can be an important weapon against this rising trends of imports and is poised to replace conventional sources of energy as India's solution to its power crisis. Rising Prices of Conventional Sources Of Energy Such as Diesel and Coal are making solar energy a highly viable alternative. Variable costs per unit of diesel power generation are currently around INR 20 and only slated to rise with the rising diesel costs. In comparison, Solar Energy costs are already under INR 8 and expected to reach power parity with cheaper forms such as coal in the next 3 years.



**Solar products are categorized manly in to two types.**

**3.1 Solar Power Generation Products.**

**3.2 Solar Thermal Products.**

### **3.1 SOLAR POWER GENERATION PRODUCTS**

We have delivered over large-scale solar photovoltaic systems over the past decade used for domestic as well as industrial applications. Understanding our customer's requirement / needs, we build and connect the solar power plants on-time and in their budget. And, with our sophisticated real-time monitoring system, we ensure that your solar power plant's performance meets or exceeds forecasted output.

With innovative and cost-effective solutions for rooftops and captive power plants using solar photovoltaic and solar wind hybrid systems, we offer our product and services at very competitive rates to many domestic as well as industrial applications to reduce their recurring costs of electricity generation through diesel generators.

We lead our products and services of off-grid and On-grid power generation projects across India for wide range of needs. In India off-grid and on-grid power plants are widely used in Residential Apartments, Schools, Collages, Hostels, Farm House, Offices, Shops, Hotels, Common Lighting Systems, Clinics and Hospitals, rooftop systems for corporate companies and industrial applications, Special Economic Zones (SEZs) for lighting, for rural electrification and other applications to provide excellent power back up systems .

With a proven track record in Solar Power Plant turnkey E.P.C. services and utility-scale domestic and industrial applications, we will work with you to deliver the most bankable solution for your renewable energy portfolio.

**Solar Power Generation systems are further classified as:**

**3.1.1 Off-Grid Products.**

**3.1.2 On-Grid Products.**

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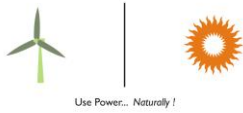
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Windmill & Solar Power Projects, Solar water Heaters, Solar Steam Generators, Biogas Plants, & Green Engineering Products.

### 3.1.1 OFF-GRID PRODUCTS

In this system, the Solar Photo Voltaic system is not connected to the local utility grid and generate the power to charge the batteries during the daytime and the stored energy can be used as when required.

**Solar Photo Voltaic off-grid system can be used for following applications:**

- Solar Off Grid Inverter
- Solar Home Light System.
- Solar Captive Power Plants
- Solar Street Lighting
- Solar Water Pumps
- Solar Rural electrification etc.



### 3.1.2 ON-GRID PRODUCTS

In this system, the Solar Photo Voltaic system is connected with the help of inverter to the local utility grid. This system is beneficial when the power generated in day time is utilised by the owner and any surplus is supplied to the utility local grid without any noise or distortion. During the evening, when solar electricity is not generated, electricity is drawn from the local grid avoiding the need of costly battery banks. You pay only for the electricity consumed from utility grid provider. Whereas some utility grid providers pay for the surplus power feed into the local grid at higher rates.

**Solar Photo Voltaic on-grid system can be used for following applications:**

- Solar On-Grid Inverters
- Solar Rooftop Power Plants for Corporate Companies & Industrial use.
- Solar Farms etc.



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### **3.2 SOLAR THERMAL PRODUCTS.**

With the help of suitable technology the immense power of sun can be converted / used to electrical energy and thermal energy. Solar Thermal energy is used for various purposes like Cooking, Solar Water Heaters and Solar steam generating systems are ideally suitable for all types of applications where we have to cook the food, need hot water or steam is required. The present modes of Cooking, Water Heating and Steam Generating insure the heavy recurring expenditure for conventional fuel like electricity, kerosene, wood, diesel etc. It is appropriate in accordance with the government policy to use energy saving devices, which will save your recurring expenses and will also save the conventional energy.

**The Thermal Energy can be used for following applications:**

- Solar water Heaters Domestic as well as Industrial/ Commercial use
- Solar Cooker for Domestic as well as Community cooking use,
- Solar Steam Generators,
- Solar Cooling etc.



**20000 LPD Solar Water Heating System**

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