



MEERA SUN ENERGIES

One Stop Solution For Solar Power Systems

INTRODUCTION – Meera Sun Energies.

Meera Sun Energies at a glance At MSE, our mission is to "utilize abundant solar energy to generate electric power, for Industrial, Commercial and Residential use, through Photovoltaic Cells in cost effective manner". Started by technocrats with aim of aiding the world environment, MSE is into design, integration, set up and maintenance of Photovoltaic Power Systems, as shown below.

Established since 2014, this startup already is a name with over two dozen credible installation of high end and qualitatively superior solar power systems. "Meera Sun Energies" become a MNRE & GEDA Government approved Company for on-grid & off-grid solar system in the country, Meera Sun Energies has tie up with MNRE Tested & Approved Company like Power One, PVPT Solar.



The MSE Products are ...

- Power Harmonized Solar Back Up / Standard System – 1 kWp/2kWp/up to 25 kWp.
- Benchmarked system designed for Industrial, Office and Residential use.
- Industrial Solar Power Packs [Grid Tied] – 5 kWp/10 kWp/up to 500 kWp systems for industry to save power and address CSR
- Solar Water Pumping System - Water pumping solutions for Rural & Urban use-1 to 30HP.
- Solar Lighting Solution – Conventional lighting powered through Solar.
- Consultancy, EPC & EPP – Design support for 1 MW / 5 MW power producers.

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INTRODUCTION – SOLAR PHOTOVOLTAIC ENERGY

Every 15 minutes the amount of energy from the sun that strikes the EARTH is sufficient enough to Supply the energy requirement of the whole world for one year. To produce Green Energy from natural resources and processes that is replenished constantly in its various forms which are considered to be environment friendly, non-polluting and help reduce the impacts of conventional electricity generation thus increasing the nation's energy independence.

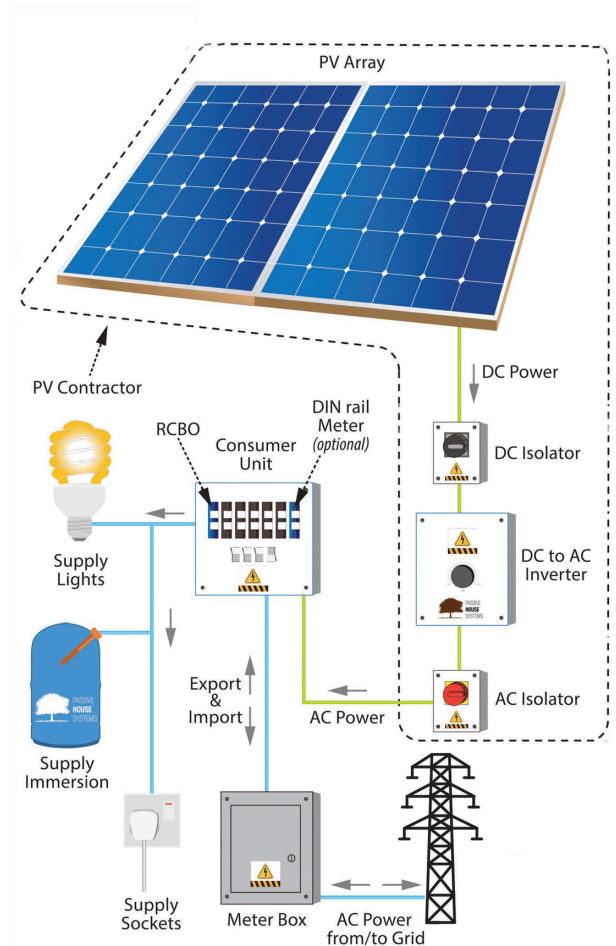
To make Solar Energy, a complementary clean alternative source of energy, Government of India announced Jawaharlal Nehru National Solar Mission last year. The mission is focused on the promotion of Solar Energy at s root level to Utility Scale Mega Projects. The entire mission is under Ministry of New & Renewable Energy & in association of Ministry of Power & Energy.

The progress of the mission at every stage is over-viewed by Prime-Minister's Office (PMO). This clearly indicates the government's commitment & seriousness towards Solar Energy development in India. The Mission has a promising Target of establishing 22,000 MW Power Generation from Solar Photovoltaic Systems spread over all across pan India.

In view of these aspects, **Meera Sun Energies** - offers a comprehensive solution to plan & commission Solar PV Power System at your site.

Meera Sun Energies Advantages:

- Authorised distributor of Schott Solar, Germany Modules, Power One for Inverter, PVPT & Zytech for PV Module and various other world leading manufacturers.
- German made thin films with better performance in cloudy weather.
- 1.8 MW installation successfully undertaken.
- Sales and support offices in Vadodara, practically covering the whole state





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OUR SYSTEMS INTEGRATION SERVICES

1. **Site Evaluation,**
2. **System Design,**
3. **Engineering, Procurement and Construction (EPC),**
4. **Erection & Commissioning Operations,**
5. **Maintenance is aimed at lowering project risks and increase ROI.**

ADVANTAGES OF SOLAR PHOTOVOLTAIC ENERGY:

1. 100 % Green Energy with Zero cost of production – Thus savings on Electricity Bills.
2. Solid state hence non maintenance and replacements of parts for long life of over 25 years.
3. Totally scalable in size from 1 panel to 100,000 panels.
4. Generation of Carbon Credits. (CER) for higher magnitude plants.
5. Contributes to Corporate Social Responsibility (CSR).

OBJECTIVE

Main objective of setting up the power plant is to support peak electrical load during day time. The solar power plant shall operate on the principle of direct conversion of sunlight to electrical energy by employing photovoltaic technology.

This would particularly help in supplementing day time peak load demands due to large electrical loads in offices & commercial complexes. Augmenting the Electrical Supply, alignment with Human Activity and saving of electricity bills.....

SOCIAL BENEFITS

Investment projects can produce substantial reductions in green house gas emissions, particularly carbon dioxide. The country's majority generation capacity is largely coal based and produces high quantity of carbon dioxide and other harmful gases. If the untapped solar energy potential is realized carbon dioxide and other toxic gas emission can be lowered by significant quantity and thereby saving our environment. Therefore, every kilowatt of solar energy produced has to be seen from this angle and as a small but major step towards mitigation of carbon dioxide emission and subsequently combat climate change.

For a typical 100 kWp SPV Power Plant, it is estimated that there will be reduction in the emission of gases and pollutants as follows:

- 130000 kg of CO₂ per year (most important climatic forcing agent)
- 1300 kg of SO_x per year (causes permanent damage to lungs)
- 400 kg of NO_x per year (agent causing SMOG and acid rain)
- 14 kg of suspended particles <10 microns per year (PM₁₀) Nose, throat irritation & lung damage
- 80 kg of volatile organic compound per year (cause of serious health problems)

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