"Our Universe is a sea of energy, free clean energy. It is out there waiting for us to set sail upon it"
--- Robert Adams

ABOUT US

Imperial Solar Solutions is a system integrator of all types of solar products and solutions. Within a short span of time ISS has been successful in establishing itself as a reputed system integrator providing all types of solar based energy efficient solutions to government, commercial and domestic sectors in Eastern India. Materials supplied by us are equipped with the most modern technologically driven machineries operated with highly efficient and experienced technicians. Dealing with government approved products, ISS core competency lies in supplying of all types solar products like: Solar Power Plants, Solar Street Lights, Solar Water Heaters & Solar Home Lighting Systems.

Apart from solar products and solutions, ISS also provides total solutions / concepts for implementation of **energy efficient systems with LED lights** in domestic, commercial and industrial sectors.

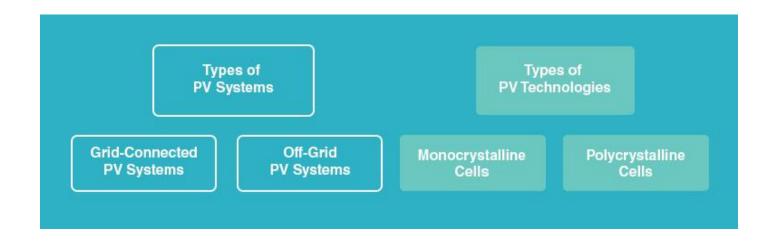
OUR VISION

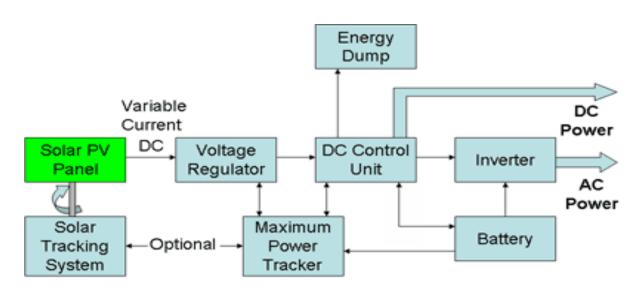
Our vision is to instigate a green planet concept in the mind of every denizen across the globe. We care to provide you an affordable necessity that can surely bring you a step ahead in your endeavor to contribute your little bit for Mother Earth.



SOLAR PHOTOVOLTAIC

A photovoltaic system employs solar modules, each comprising a number of solar cells, which generate electrical power. PV installations may be ground-mounted, rooftop mounted, wall mounted or floating. Solar PV has specific advantages as an energy source: once installed, its operation generates no pollution and no greenhouse gas emissions, it shows simple scalability in respect of power needs and silicon has large availability in the Earth's crust.





Photovoltaic Electric Power Generation

SOME OF OUR PHOTOVOLTAIC INSTALLATIONS





100 KWP ROOFTOP SOLAR POWER PLANT, VANIKI MAHAVIDHYALAYA, MUNGER,







10 KW OFF-GRID, MUNGER

100 KW ON-GRID, MUNGER



225 KW ON-GRID SOLAR POWER PLANT LALIT NARAYAN MITHILA UNIVERSITY DARBHANGA, BIHAR



5KW SOLAR TREE, CSIR-CMERI, DURGAPUR, W.B



10KW ON-GRID SOLAR POWER PLANT, RAMMOHAN COLLEGE, KOLKATA,



30 KWP ON-GRID SOLAR POWER PLANT BDO OFFICE, RANINAGAR-I, MURSHIDABAD



10 KWP ON-GRID SOLAR POWER PLANT GRAM PANCHAYAT OFFICE DHULAURI, MURSHIDABAD



10 KWP ON-GRID SOLAR POWER PLANT GRAM PANCHAYAT OFFICE JURANPUR, MURSHIDABAD



10 KWP ON-GRID SOLAR POWER PLANT BDO OFFICE, JALANGI, MURSHIDABAD





7 KWP ON-GRID SOLAR POWER PLANT SDO OFFICE, DOMKAL, MURSHIDABAD



10 KWP ON-GRID SOLAR POWER PLANT GRAM PANCHAYAT OFFICE ISLAMPUR CHOWK, MURSHIDABAD



13 KWP OFF-GRID SOLAR POWER PLANT SCIENCE & TECHNICAL UNIVERSITY, NAMKOM, RANCHI, JHARKHAND



5.2 KWP OFF-GRID SOLAR POWER PLANT SALT LAKE, KOLKATA, SIEMENS LIMITED



65 KWP OFF-GRID SOLAR POWER PLANT – NHPC KARGIL





12 KWP SOLAR POWER PLANT DRDA, GAYA, BIHAR



90 KWP SOLAR POWER PLANT CENTRAL JAIL, GAYA, BIHAR



30 KWP ON-GRID SOLAR POWER PLANT TEKARI, BIHAR



40 KWP ON-GRID SOLAR POWER PLANT CIVIL COURT NAWADA, BIHAR



30 KWP ON-GRID SOLAR POWER PLANT SOUTH EASTERN RAILWAY, ADRA DIVISION, WEST BENGAL

SOLAR STREET LIGHTING SYSTEM



	SOLAR POWER LED BASED STREET LIGHT						CFL BASED	
MODEL	IM0937	IM1250	IM1875	IM2475	IM36150	IM50160	IM60210	IM1175
Light Output in Lumen	900	1200	1800	2400	3600	5000	6000	700
Nominal Power	9W	12W	18W	24W	36W	50W	60W	11W
Efficiency	> 90%						> 85%	
Battery	12V 40AH	12V 40AH	12V 75AH	12V 75AH	12V 150AH	12V 150AH	12V 200AH	12V 75AH
SPV Module	12V 37Wp	12V 50Wp	12V 75Wp	12V 75Wp	12V 150Wp	12V 160Wp	12V 210Wp	12V 75Wp
Autonomy	1 Day	1 Day	1 Day	1 Day	1 Day	1 Day	1 Day	2 Days
Nominal Battery Voltage	12 Volt							
Charge control	Controller Based Charging							
Working of Light	Automatic Dusk to Dawn							
Display Indications	LED Type (Green LED: Battery Charging; Red LED: Battery Low)							
Battery Cable	Copper Cable							
Indication	Battery Charging, Battery Low, Battery Over Charge							
Pole	Galvanized Iron 4 mtr. Long pole							
Luminary Body	Aluminum / ABS							
Battery Box	MS Sheet Box with Weatherproof Paint / Polycarbonate Box							
Cooling	Natural Air Cooled							
Protections	Battery Overcharge, Battery Deep Discharge, Reverse Battery							
Ambient Temperature	0°C to + 45°C							

Advantages of LED Street Lights

- ✓ Super bright LED for better lumen output
- ✓ Life of LED is 10 times the life of CFL
- ✓ Better life LED can work > 50,000 hours
- ✓ Lower wattage consumption & higher lumen output 8W watt LED light is almost equivalent to 11 W CFL





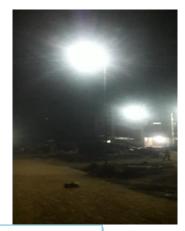




SOME OF OUR SOLAR STREET LIGHT INSTALLATIONS







30 WATT HYBRID SOLAR STREET LIGHT, VANIKI MAHAVIDHYALAYA, MUNGER



SIEMENS LTD., KOLKATA 12W & 18W STREET LIGHT



EASTERN COALFIELDS, JHANJRA, W.B. 9W STREET LIGHT



BANKURA, W.B. 9W STREET LIGHT



DIAMOND HARBOUR, WEST BENGAL 24W STREET LIGHT



MAHASUMUND, CHATTISGARH 9W STREET LIGHT



PURBO MEDINIPUR, WEST BENGAL 24W STREET LIGHT

SOLAR DAY TUBE INSTALLATION









400 WATT EQUIVALENT SOLAR DAY TUBE, FLENDER DRIVES PVT. LTD.

SOLAR MICRO-GRID PROJECT









SOLAR BATTERY BANK – 360V 100AH CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING , THIRUVANANTHAPURAM, KERALA

SOLAR THERMAL

A Solar Water Heater consists of mainly collector to collect solar energy and an insulated storage tank. In this process radiation from the sun heats up the water inside the evacuated tube collectors and gets stored in the storage tank.

Imperial Solar Water Heaters are equipped with latest technology giving you free hot water every time you need.

Features of Solar Water Heater

- Borosilicated Double Layers Evacuated Tube Collectors
- ➤ High density PUF Insulation for more heat retention
- Inbuilt Electrical Heater Element as added feature
- ➤ Inner SS tank for longer life of system



Plenty of Hot Water with Cool Savings

1	Capacities available	100ltrs, 150ltrs, 200 ltrs, 250ltrs, 300 ltrs				
2	Major Components	Boro-silicate Vacuum Tubes, PUF insulated Hot Water Tank, Galvanized Steel frame & structure				
3	Vacuum Tube size and length	58 mm outer diameter 47 mm inner diameter 1800 mm length				
4	Water Output	40-80 °C under normal sunny conditions				
5	Vacuum tube material	Borosilicate				
6	Coating	Selective Coating of Aluminum Nitride & Aluminum (Al-N/Al) -				
7	Vacuum of the tube	< <u>3x10-3 Pa</u>				
8	Hail resistance	<30 mm Diameter				
9	Solar Water Heater frame and mounting structure	Corrosion-resistant Galvanized steel frame for durability and strength to withstand wind at 250km/hr.				
10	Inner tank material/thickness	Stainless Steel 304 food grade				
11	Insulation	50 - 60 mm Injected Poly-Urethane Foam (PUF) for minimal heat loss				

SOME OF OUR SOLAR WATER HEATER INSTALLATIONS





5000 LTR FULLY AUTOMATED SOLAR WATER HEATER, UMAID BHAWAN, JODHPUR, RAJASTHAN



1500 LTR, S.N. BOSE CENTRE KOLKATA, W.B.



7000 LTR, GIRL'S HOSTEL, POLYTECHNIC COLLEGE, NIRSA DHANBAD



7200 LTR, GIRL'S HOSTEL OF BIRLA INSTITUTE OF TECHNOLOGY, SINDHRI CAMPUS, JHARKHAND



7000 LTR, HOSTEL OF POLYTECHNIC COLLEGE, DHANBAD, JHARKHAND





1000 LTR, RAIGANJ, WEST BENGAL



2000 LTR, GRAPHITE INDIA LTD, **WEST BENGAL**



500 LTR, MAYAPUR WEST BENGAL



2000 LTR, WAKKA, ARUNACHAL PRADESH (BSF CAMP)



1000 LTR, HOTEL DEVI DARBAR, **BARAUNI, BIHAR**



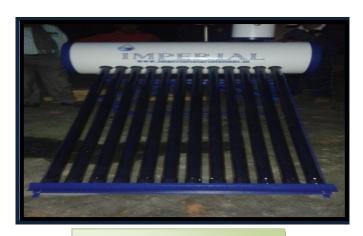
1200 LTR, BALASORE ALLOYS, **ORISSA**



500 LPD, HOLY CROSS HEALTH CENTRE, MAIRANG, SHILLONG



800 LPD ETC SYSTEM ADRA ARMY CAMP, PURULIA, W.B.



120 LPD, ARMY BASE CAMP, PANAGARH, W.B. (GUEST HOUSE)



200 LPD RIMBIK, DARJEELING, WEST BENGAL

SOLAR WATER PUMP SYSTEM

Imperial Solar Solutions

Solar Water Pump Types
Submersible Pump

Solar Panel

Overhead Tank

Pump Controller

Pump Controller

Pump Controller

Pump Controller

Solar pumps present a clean, simple and energy-efficient alternative to traditional electric and fuel-driven pump sets. They are part of an environmentally friendly approach in agriculture and can be used to exploit every region, whether its developed or poor.

We provide both submersible and surface installations.

SOME OF OUR ESTEEMED CLIENTS





















