



Powering Infinty

**Transforming solar energy towards
a sustainable future...**



— Solar Photovoltaic

Orange Solar a division of Sun Zone Solar Systems India Pvt. Ltd., is a leading manufacturer of Solar products such as **Solar Lighting systems & Solar Energy generating systems,** with the use of Solar Photo Voltaic cells.

The technology we use is of **high quality and reliability** also **cost effective** to ensure **high performance.**

The Company broadly defines its good intention, sparing no effort to bring in the best of **Photo Voltaic** products by use of the cleanest and richest solar energy from the nature by adapting new technologies and improving manufacturing technologies.

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(Off-Grid System)
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- 11** Solar Pumping System



Enlighten with Solar power

Solar Lighting Systems

Installation of Solar lighting systems, in your homes, industrial sheds, offices and Institutions helps you to save unnecessary expenditure on your electricity bill. Depending on your electricity needs and the size of the solar lighting system you choose to install, you may be able to completely eliminate your electric bill.

Solar power is a renewable source of energy, it practically costs nothing to harness the power of the sun in generating and supplying electricity, over the years to come. In this way, Solar power offers long term savings.

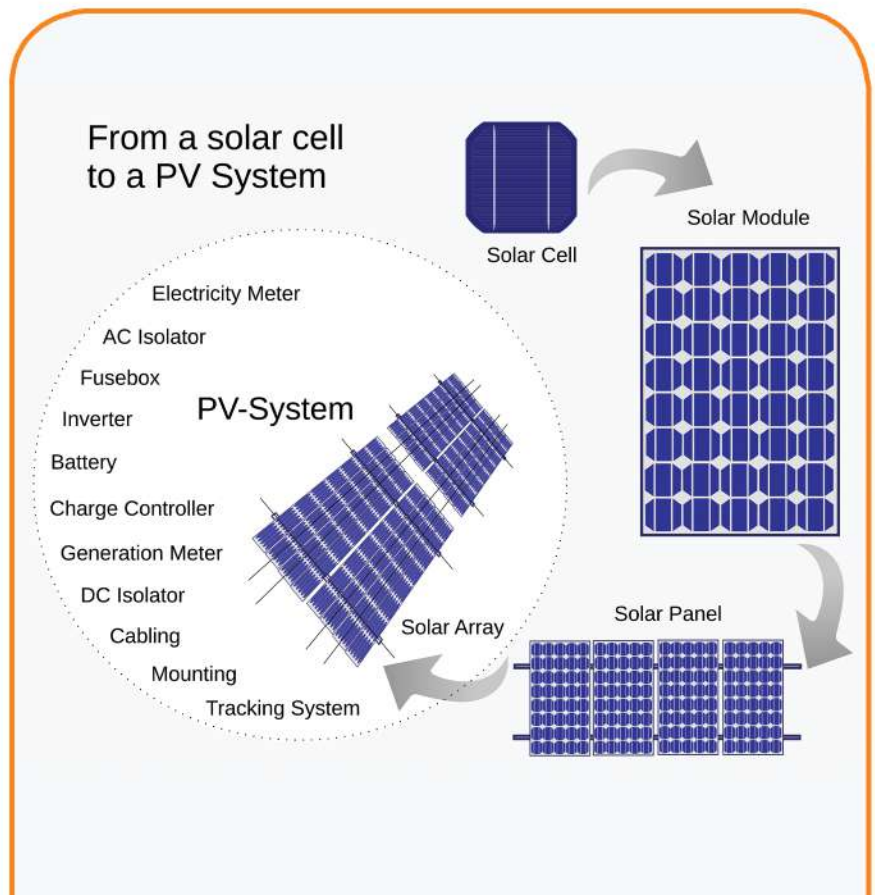


About SPV Module

A solar cell, or photovoltaic cell, is an electrical device that converts the energy of light directly into electricity by the photovoltaic effect, which is a physical and chemical phenomenon. It is a form of photoelectric cell, defined as a device whose electrical characteristics, such as current, voltage, or resistance, vary when exposed to light. Individual solar cell devices can be combined to form modules, otherwise known as solar panels. In basic terms a single junction silicon solar cell can produce a maximum open-circuit voltage of approximately 0.5 to 0.6 volts.

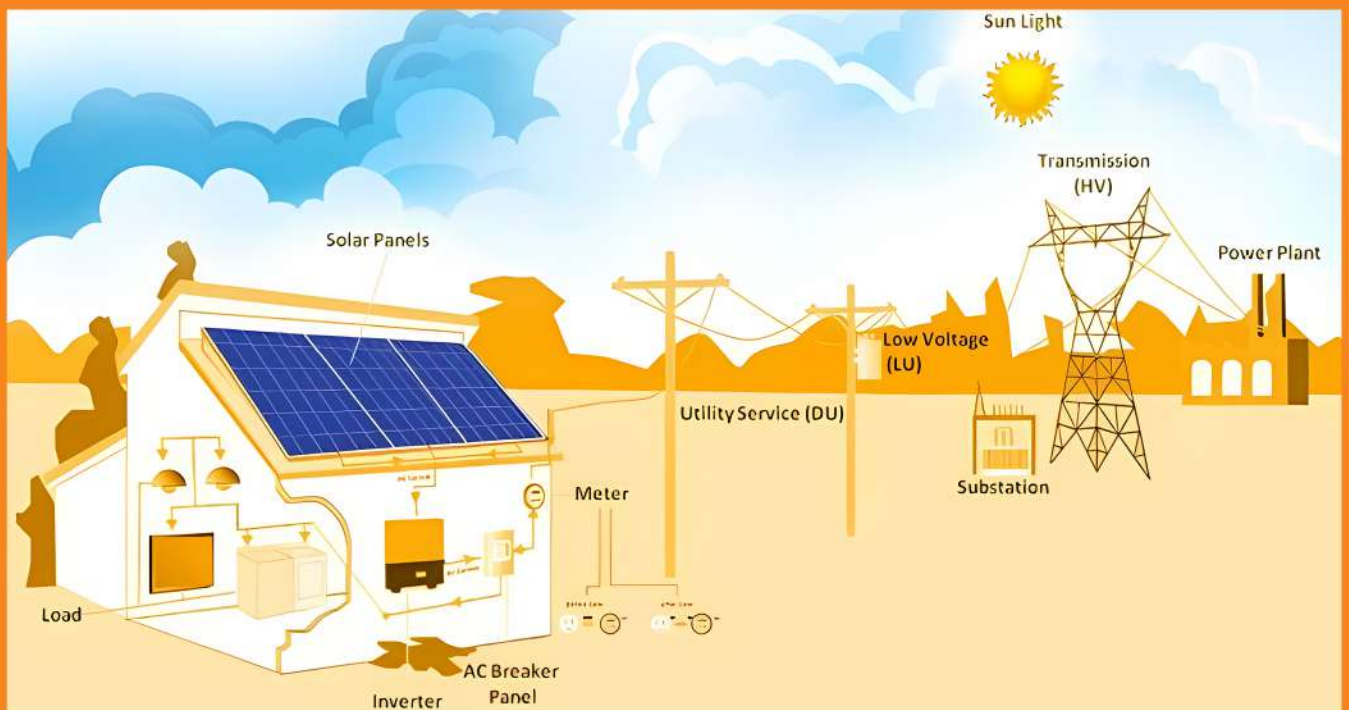
Orange Solar Provides Latest technology Pv Modules, Which are Approved from MNRE And Certified from BIS (ISI Standards And IEC Standards).

We Offer Modules Ranging From 3Wp to 680wp (Both DCR and Non DCR) And in Topcon up to 680wp.

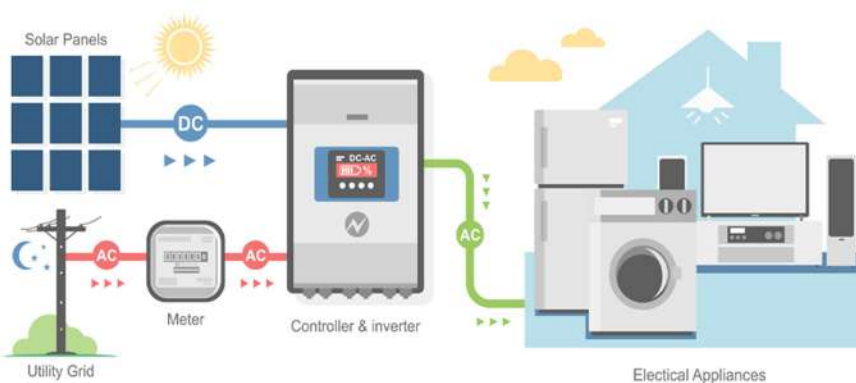


Solar On-Grid System

The Solar On-Grid system consists of the photovoltaic solar system connected to a utility grid (usually the public electricity grid). The PV solar panels convert sunlight into DC power, which is then transformed into AC power by inverter. This AC power is consumed by the household appliances and systems. The excess electricity generated flows back into the utility grid that will be used to suffice other customers. The utility grid is consumed when you need more power than the solar power system have produced or entire produced power can be sent to utility grid.



Solar On-Grid System



Key Features:

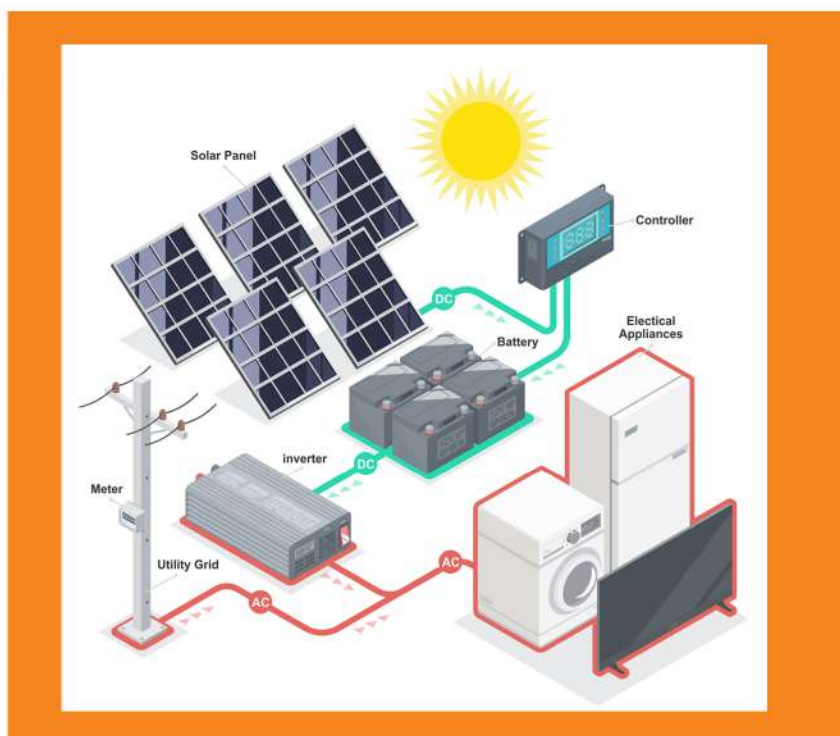
- A Pay ZERO for your electricity bill.
- B Get protected against tariff hikes.
- C Earn from your idle rooftop space.
- D Reap Accelerated depreciation benefits.
- E Zero Maintenance

Solar Roof Top hybrid System

A Hybrid Solar System contains solar panels, a hybrid inverter, and battery storage to create an uninterrupted energy solution. The solar panels store sunlight and convert it into electricity, while the battery storage stores excess energy for later use.

The functionality of this system starts from a Hybrid Solar Panel that helps to capture the sunlight and then convert it into DC (Direct Current) electricity. The DC electricity from the Hybrid Solar Panel is converted into AC (Alternating Current) with the help of an Inverter.

Then the excess solar energy produced during the day is stored in a Battery Storage for use at night or on cloudy days for a continuous electricity supply. These systems combine the best features of grid-tied and off-grid solar systems, ensuring continuous solar power operation. When solar and battery energy are insufficient, then Grid Connection draws power from the grid and also exports excess energy to the grid. This way Hybrid Solar Systems can be used even during a blackout!



Key Features:

- A Clean and Silent source of power
- B No fuel required
- C Provision of battery bank
- D Negligible Maintenance
- E No recurring fuel cost
- F Modular design
- G Simple Installation
- H Savings on electricity bill.
- I Transportation problems and uncertainty in availability of fuel are totally avoided by using solar photovoltaic systems.

Solar DC Home Lighting System

Orange Solar LED Home Lighting System manufactured by "M/s Sun Zone Solar System India Pvt. Ltd.," is the successful integration of the solar photovoltaic and the emerging LED technology. These LED Lights give higher brightness at very low power consumption and as a result LED based Solar LED home light system requires very small solar panels and batteries compared to the conventional systems.



The LED used in the luminary have a life of more than 50,000 hrs which avoids the costly Light replacements for several years.

Solar LED home lighting system harnesses the power of the Sun to provide reliable, cost effective electricity wherever it is needed.

This solar home lighting system supply electricity for lighting, entertainment and information to homes that are not connected to grids or where electric supply is quite erratic.

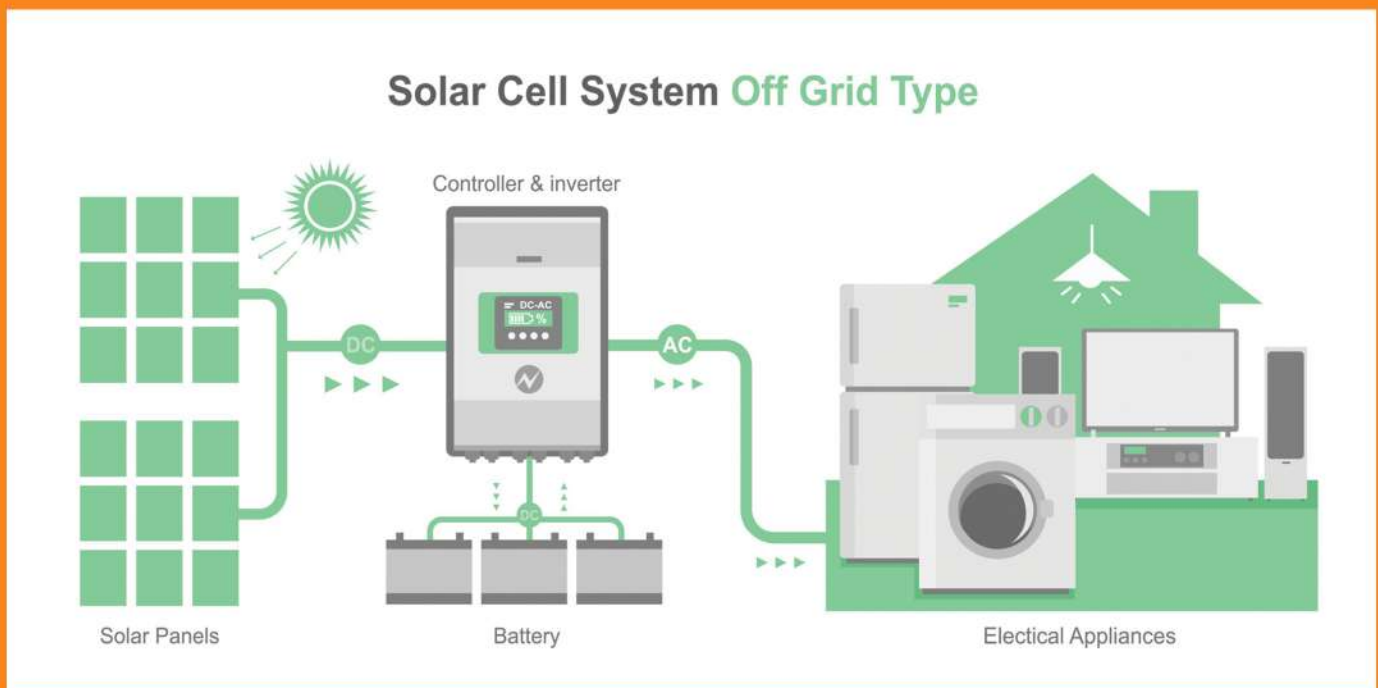
Solar Home lighting systems are an excellent solution for household level electrification in rural areas.

Key Features:

- A Safe and easy to install
- B Free from noise, smoke and pollution
- C Required very little attention
- D Possible to expand the system in future
- E The system available in variety of models with different capacities.

Solar AC Home Lighting System. (Off-Grid System)

OFF-Grid Solar PV System has the capability of functioning independently from the utility grid. A typical OFF-Grid Solar PV system consists of Solar Panels, OFF-Grid Solar Inverter cum Power Conditioning Unit, a Battery Bank, Cables and other accessories necessary for installing the system.



Solar off grid system is the system used to generate electricity for locations where grid is inaccessible or the access is prohibitively expensive.

These solar power pack systems can also be used in conjunction with existing grid for uninterrupted supply of electricity.

Key Features:

- Ⓐ uninterrupted Power Supply
- Ⓑ Clean and Silent source of power
- Ⓒ No fuel required
- Ⓓ Provision of battery bank
- Ⓔ Negligible Maintenance
- Ⓕ No recurring fuel cost
- Ⓖ Modular design
- Ⓗ Simple Installation
- Ⓘ Savings on electricity bill.

Commercial

Lighting neighborhoods with sun's power

Solar Powered Street Lighting Systems

Provides worry-free lighting in outdoor environments where energy conservation and/or safety are a concern.

Product features:

- Ⓐ Guaranteed Light during Emergency power outages.
- Ⓑ High Efficiency LEDs being used.
- Ⓒ Concealed Solar panel design
- Ⓓ Pole and Post, options available



Solar Street Lighting System

Orange street lighting system is the ideal stand-alone street lighting systems for illuminating streets, roads and gardens which are in remote areas affected by the grid power. The fully integrated system combines the latest and the most innovative technology available with LED Luminaries. It provides years of convenient and trouble-free lighting.



At the advanced technology has been adopted in the manufacturing as per the standards of MNRE and also, we have introduced the Lithium ion based solar street lighting system which is trouble free and maintenance free street lighting system.

These systems come with dusk to dawn feature which operates automatically with no human interface.

Key Features:

- A Superior quality and high performancell
- B Cost-effective
- C Long life high quality
- D Maintenance free.

Available Models



2 in 1 Street Lights

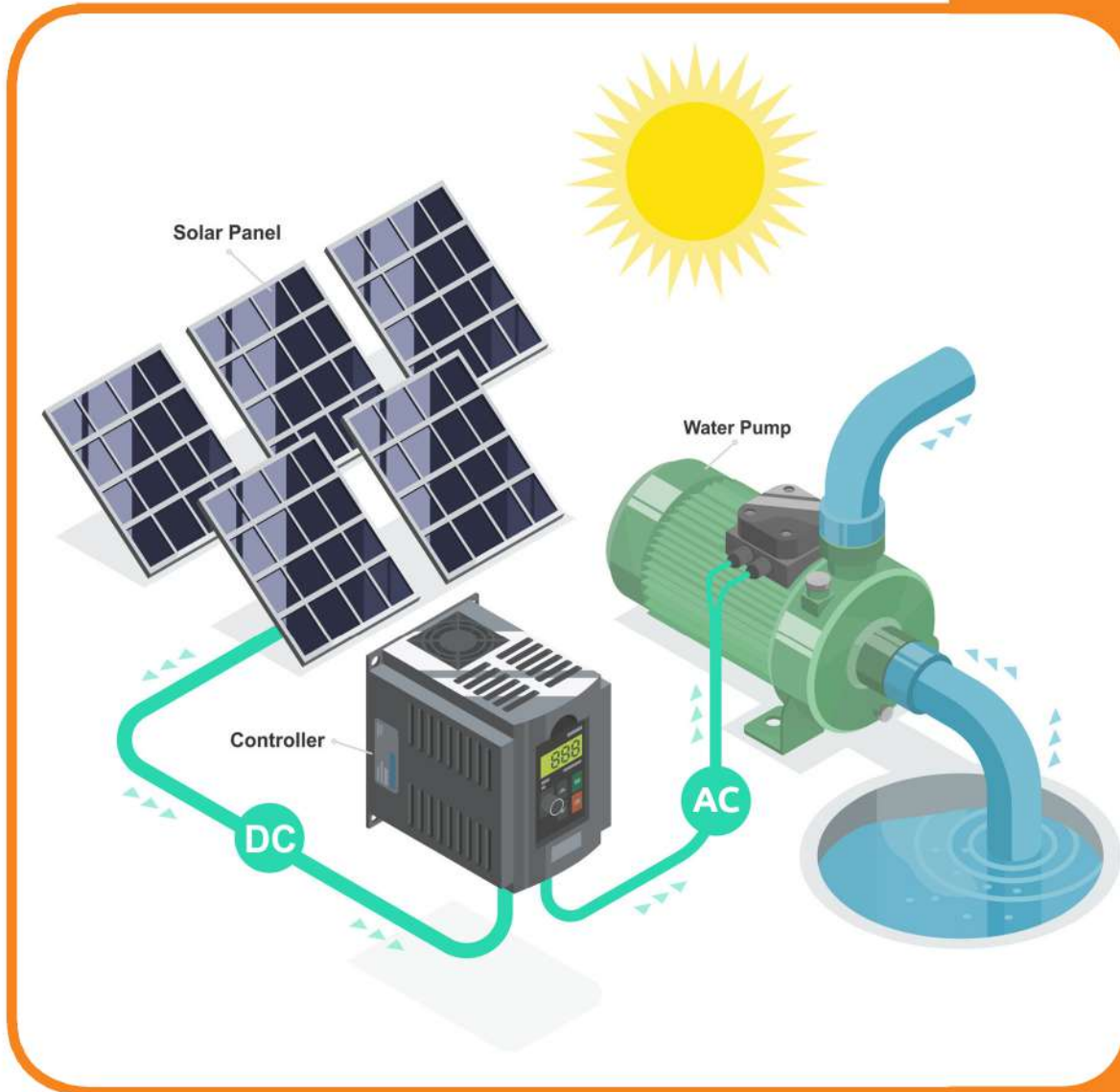


All in One Street Lights

Available in all capacities

Solar Pumping System

Orange solar water pumping system is a standalone system operating on power generated by solar photovoltaic panels.



The operation of solar powered pump is more economical mainly due to the lower operation and maintenance cost. The Pump uses electricity generated by solar panels, is fed to solar pump controller (VFD) which converts DC to AC and also adjusts the speed and output power as required by the pump.

These systems are best alternatives in areas where there is no electricity or reliable power supply is not available. Solar powered water pumps can be extremely useful for farmers who work on small scale. Solar PV systems result in significant long-term savings and a small environment footprint compared to conventional power systems.

Note: Available in AC pumping system & DC pumping system



Fact File - Which makes us the best

- Sun Zone has been in the market from past 27 years developing excellent products in Solar Water Heater and Solar Lighting System (Solar Photovoltaic) Heat Pump and in other renewable energy making us more competent and has facilitated our growth even in this phase of tough competition.
- Our solar products are the culmination of excellent engineering, use of advanced technology with high quality materials manufactured at state-of-art infrastructure, providing our customer with high degree of satisfaction for products and services.
- We come up with customized solutions and to provide efficient solar product and services. We understand your requirements, identify appropriate products and do the complete installation, as per the customers need.
- Our solar products have highly efficient electrical components and system, we observe competent methods of integration during installation. This increases the system efficiency resulting in better energy savings.
- Our efficient team of highly skilled manpower ensures timely installation and servicing of solar system adhering to the procedures of international standards.
- We provide longer warranty period for products. Our warranty period of one year gets extended to four more years on performance warranty against AMC.
- We have all major renewable energy products available under one roof. This facility helps our customer to choose and select the product according to their convenience.
- We are an ISO 9001-2008 certified company.
- We are certified by ISI (Bureau of Indian Standards) for Quality.
- We are MNRE (Ministry of New and Renewable Energy) approved company.
- We are GEM registered company.
- We manufacture our products under the National initiative of "Made in India".





Vision of Powering Infinity

We at ORANGE are passionate about contributing to a world, which does not depend on power from fossil fuels. Our aim is to accelerate the adoption of solar technology across the world to conserve our environment and provide an environmentally friendly, sustainable and conflict-free power supply.

Sustainable global economic development requires reliable, cost-effective and quickly scalable energy solutions. ORANGE is growing into a global high-tech company and was established to provide these solutions. We believe that solar power is now a mainstream, viable technology of 'today' enabling the move towards a zero-emission power supply. We seek to provide our customers high-value added solutions through building on our strong foundation in photovoltaic manufacturing and our commitment to innovation to drive the efficiency, quality and profitability of our products. We remain aggressive in our focus on innovation and cost but remain conservative in our implementation to ensure ORANGE products are a safe choice for our customers.

At ORANGE we put our customers and partners in the center of our attention and treat them with trust, respect and integrity. While driving for world-class products, continually improving the quality and environmental friendliness of our products are at the core of ORANGE values. We are committed to comply with international safety, environment and quality standards at all times.



SCAN FOR
**OUR
PROJECTS**



"The only infinite power source that was free to use all day & every day it is solar power."



AN ISO 9001-2008 COMPANY

BROUGHT TO YOU BY

Regd. Off. & Works

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