



***Empowering  
Solar Living***

**KOSOL**  
ENERGIE

  
**Kalthia**  
GROUP  
SINCE 1960



Kalthia Group began its journey in 1960 from infrastructure development business, from Bhavnagar in the State of Gujarat, India. Over the years, the Group has diversified into Infrastructure projects like Roads, Bridges, Canals, Irrigation Dams, Agriculture farm fresh products, Hospitality (Hotels in US since 1991). Manufacturer of Vertical Vibrated Casting Technology and Ready Mix Concrete for demanding infrastructure & construction industries, Solar Structure Engineering and Renewable.

## Kalthia Group Outline





## Nurturing Sustainable Development

Industrialization always bring with itself of bright future. SOLAR ENERGY is the key non-conventional source of Solar Energy unaffected by power cuts.

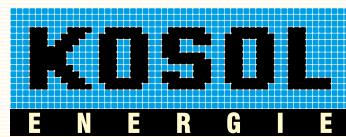
SUN is the only energy source, which still continues to operate without any sign of decline. Kalthia Group diversified its wing toward **225 MW state-of-the-art manufacturing excellence** under the brands "**KOSOL**" and "**SunRay**". KOSOL covers the products and services like Solar PV Modules, Solar Roof Top, EPC Solar Solution Provider, Solar Power Plant, Solar Lights, Solar Water Pumping Systems etc., and SunRay covers Domestic, Commercial & Industrial Solar Water Heating applications.

Today KOSOL Energie is India's foremost brand in solar industry with path-breaking solar solutions with aim to create a green energy revolution, by developing products that helps to achieve freedom from dependency on fossil fuel based energy. We called this phenomenon as **Empowering Solar Living...**





At KOSOL Energie core team of experienced engineers and trained professionals work in synergy to generate ideas to substitute fossil fuel with renewable solar energy through design, drawings, development and implementation of solar projects. With a clear vision on solar energy.



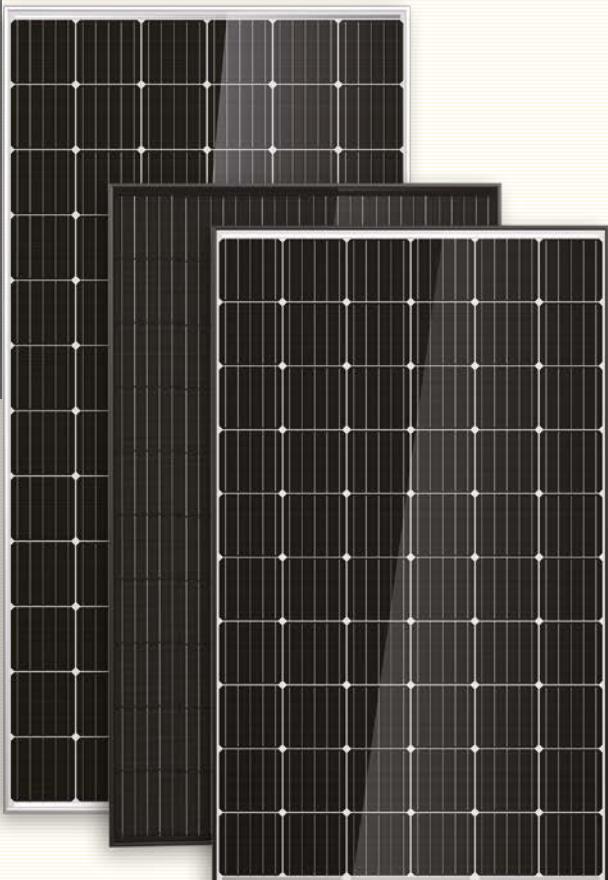
## Shaping Future Technologies

KOSOL Energie is an ISO 9001:2015, 14001:2015 & 18001:2007 certified a leading organization in India, where we innovate to create and empower the world with functional products to harness and employ clean and green solar energy.

KOSOL provide solutions for solar photovoltaic systems and solar heating water under one roof with in-house R&D facility. Exceeding the high standards and commitment to excellence our solar products are accepted in domestic as well as overseas markets like in US, Mexico, Africa, Middle East.



Poly Series



Mono Series

Available Range from 40 Wp to 440 Wp



**State-of-the-art technology, Know-how with European 225 MW capacity manufacturing facilities having stringent in-line quality inspection including optical cameras and EL inspection.**



## **Manufacturing Excellence**

We offer a broad selection of Monocrystalline and Polycrystalline solar modules for on-grid/off-grid connected systems. Our solar modules are certified to FIRE RATING TYPE-1, IEC 61215/61730/61701, 62804, UL 1703, CEC for crystalline modules and conforming to International standards. Our modules are guaranteed to power performance linear power warranty for 25 years.

## Exceeding the Highest Standards

The KOSOL Energie conglomerate has stabilized its prowess as a formidable global player through compliance to international standards of technology, optimum utilization of resources, focus on market and ace cost management strategies. In a nutshell, the team here is all set to reinvent the advantages of rich and diverse human resource-mix, which are an asset and the main strength of the organization.







## Solar Rooftop Solutions

"KOSOL" Solar Rooftop installations or Rooftop Solar Power Systems on residential, commercial and Industrial sites offer unparalleled energy and revenue generation opportunities. In fact, Residential, Commercial, Institutional and Industrial roofs can be utilized for solar power generation. Large manufacturing plants and warehouses boast the largest un-shaded rooftop opportunity per square foot.

Although, smaller units can be placed on the residential building to cater the captive power requirements for making the residence power self-sustainable.

KOSOL Energie offer both off grid and grid tied solutions for domestic, commercial like, Schools, Hotels, Hostels, High-rise apartments, as well as Industrial solar rooftop applications.

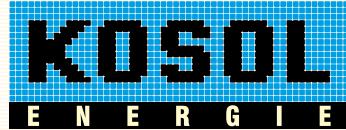




**“Our team delivers  
360° solutions to customers.  
We provide innovative  
and reliable Solar Power  
Solutions.”**







## Solar Photovoltaic Power Plants & EPC Solution Provider

KOSOL Energie is a fully forward-integrated and comprehensive EPC solutions provider. We deploy European technology to design, install and commission benchmark solar projects worldwide.

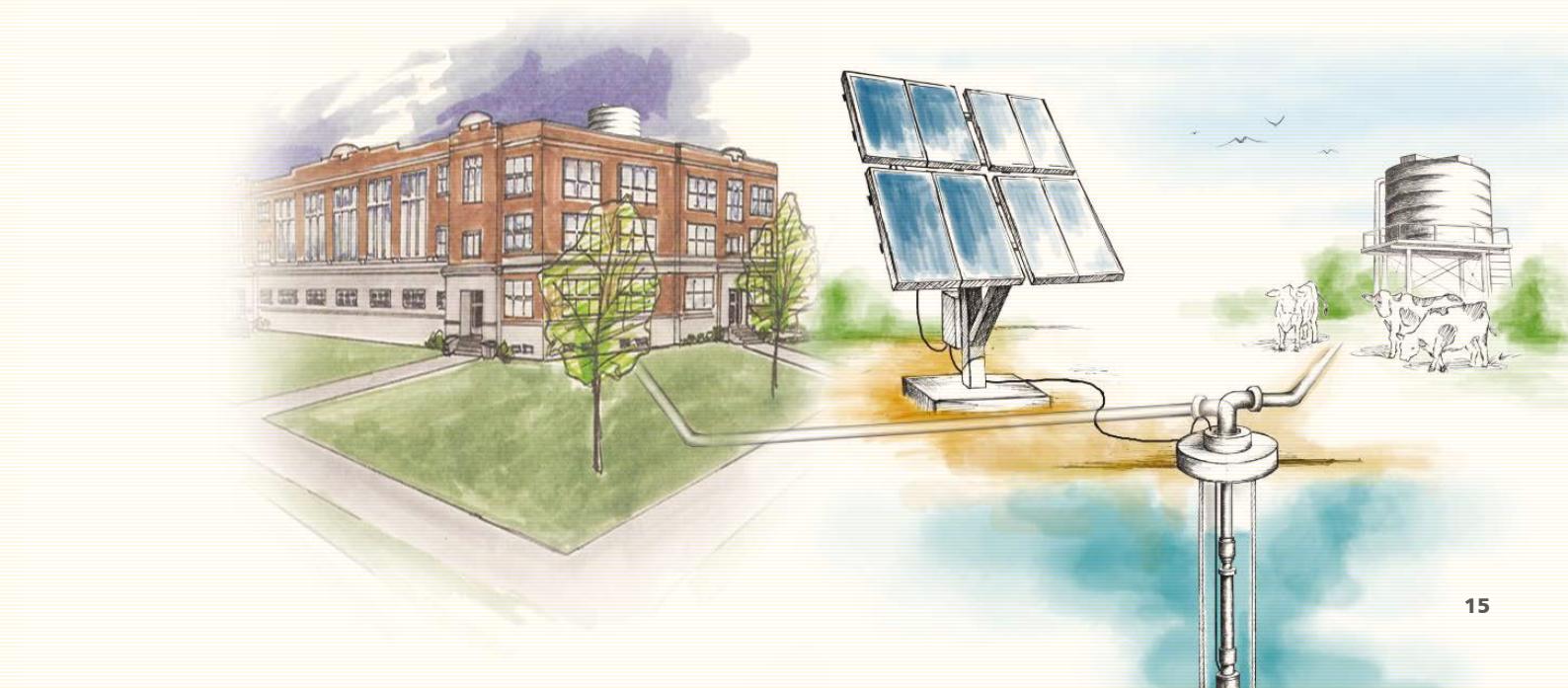
The highly skilled and dedicated EPC Team at KOSOL Energie ensures the completion of each solar power plant from concept to commissioning, including operation and maintenance. Its business model ranges from the land acquisition of developed sites to the servicing and maintenance of completed solar arrays throughout its lifespan.





## Solar Water Pumping System

KOSOL Energie offers both options **AC & DC Solar Water Pumping Systems** operating directly on solar energy. Solar Water Pump applications small and large for agriculture, drip irrigation, horticulture and filling overhead tanks, water treatment plants, swimming pools, resorts and drinking water supply as well.





## KOSOL Innovative Hybrid Collector

Collector E-PVT2.0 is a combination of a Twin solar collector and a photovoltaic module with polycrystalline silicon cell. Solar collector is responsible for a conversion of a solar radiation to thermal energy, used for heating domestic water and central heating, while photovoltaic module changes solar energy into electric energy.

## Solar Water Heaters

SunRay has established water heating system using technologies ETC and FPC solar collecting system, manufacturing and in-house R&D facilities. SunRay solar water heating system ranges from 100 to 500 liters per day stand alone models to centralized systems of several thousand liters capacity by using multiple systems. Applications are such as multi-storey apartments to large townships, swimming pools, commercial and industrial etc. SunRay offers pressurized systems suitable for boiler feed water, process water heating and other industrial water heating applications.



®  
**SunRay Klassic**

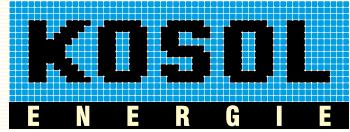
®  
**SunRay Pro**





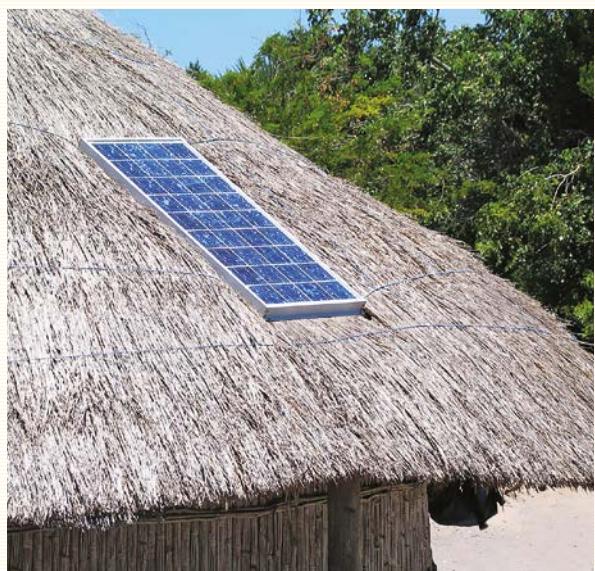
## Integrated Smart Sensor Solar LED Street Lights

Today Solar Lighting System is widely accepted for illumination of streets, cross roads, parks, forest areas and buildings. Solar Systems are highly preferred in urban, rural and isolated area due to its independent built-in solar panel with long life lithium batteries and Intelligent Sensor. We offer, Integrated Smart Sensor Solar LED Lights, which are based on microprocessor managed auto dusk to dawn.



## Solar Off-Grid Home Light Solutions

KOSOL offers Off-grid power solutions most suitable for rural and urban locations where no grid power is available. Solar power stored in the battery bank system. These are compact energy generation independent units integrated and arranged in along with PV panels to generate power. Ranging from 40 Wp to 2 kWp and above for remote/rural locations. Sun Solar radiation is Free and available in plenty.

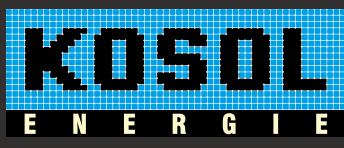




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Images shown are only for the purpose of illustration and may not be a part of standard offering. Due to continuous product improvement activities, the specifications are subjected to revision without notice.



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