



*Energy as Clean as Nature™*

Step Towards  
**Green Life**



[www.naturaecoenergy.com](http://www.naturaecoenergy.com)



*Energy as Clean as Nature™*



*eco energy*





## About us

Natura Eco Energy, headquartered at Gujarat started its operation as an integrated solar energy solutions provider in the Indian Solar Industry.

Today the company has emerged as a leading turnkey solution provider in Solar industry. Company led by visionary leaders and industry veterans to skilled professionals who anticipate the growing need of solar energy sector and cater to this need aptly.

The Company has sculpted well proven, cost effective and efficient business models based on their unique solutions for Solar Energy. Right from land identifications to EPC and rooftop projects, Natura Eco Energy gives its customer a unique advantage over their contenders.

Apart from this, its group companies also provides comprehensive services in products like Textiles, Construction, Real Estate, Ginning & Spinning, Dyes & Chemicals, Import & Export, Precision Investment Casting, Colloidal Silica, PVC Foam Ply Sheet.



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# Business Solutions - Solar Projects

## Turnkey Solutions

Natura Eco Energy primarily focuses on providing turnkey solar energy solutions right from concept development to commissioning of solar power projects as well as operating and maintaining them throughout the life span of the project.

We offer a complete array of service that includes :

- Solar Radiation Mapping,
- Land Acquisition,
- Infrastructure Development,
- Design & Engineering,
- Power Evacuation,
- Supply Chain Management.
- Civil & Electrical Works
- Erection & Installation
- Testing & Commissioning
- Operation & Maintenance
- Value Added Services (REC, CDM & PPA)

## EPC Services

We ensure that our EPC services utilize your resources optimally. With clearly defined parameters of the client, We are equipped to handle any scale of solar projects from design development to project commissioning.

We look into the intricate details and specifications of each project, especially timely execution, quality control and overall reduction of minor hurdles that may arise on the field.

With our highly competent team, We provide a suitable system design that adheres strictly to our customer expectations. Natura Eco Energy has expertise and knowledge to obtain necessary licenses, permissions and other government documentation. This is rigorously followed so that all rules and local codes are carefully maintained and commissioning of the project is done within the promised time frame.

## Renewable Energy Certificates & Power Sale Solutions

Natura Eco Energy delivers hassle free transactions with all regulatory and statutory support for quick & effective realization of revenue through Renewable Energy Certificates (REC) and Power Sale. We have exclusive mandate of various corporate for Sale / Purchase of Power.

We are equipped with technically specialized team to understand the various dynamics of the Renewable Energy power sale and REC market and thereby the most effective and proactive services are ensured. Our goal is to maintain effective relationships with our Clients and Business Associates by utilizing our core competency and extensive knowledge to benefit our clients through our power sale advisory services.





## BID



### PRE-BID CONSULTATION

Natura Eco Energy provides bid management consultation in pre-bid alliance mode, assisting investors and developers interested in bidding for projects under various state and national policies along with site identification and load flow study etc.

### PROJECT DEVELOPMENT

We offer complete end-to-end solutions, including land procurement, resource assessment and feasibility analysis, geotechnical study, power evacuation arrangement, regulatory, statutory permits and approvals for timely commissioning of the project.



### PROJECT FINANCE

Our expert team comprising industry veterans provide assistance in project appraisal and support in arranging equity and debt financing through financial institutions.



### PROCUREMENT & SUPPLY CHAIN MANGEMENT

We identify the best technology partners through a rigorous qualification process and ensures all components in the value chain of building Solar project is of desired quality and specifications. Further, dedicated team ensure on time supply with MNRE exemption to help timely completion of project.



### DESIGN & ENGINEERING

We have highly qualified design & engineering team uses cutting-edge software, leading technology tools and practical field experience to design the best layout for your project with proven technology to achieve the best performance ratio. The ultimate objective being the lowest cost of ownership and reliable operation throughout the life of project.



### PROJECT CONSTRUCTION, INSTALLATION & COMMISSIONING

Benchmark quality standards and 100% on time commissioning has been our key strength. We assure timely completion of project milestones with the best quality work within estimated budget.



### OPERATIONS & MAINTENACNE

We offer comprehensive monitoring, operations and maintenance support including all critical components, spares and consumables along with 24 x 7 security & surveillance support. Our qualified and trained team helps you realize best yield and maximum plant up time with timely preventive maintenance and fastest solution of plant breakdown.



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## Rooftop



With frequent load shedding on the rise, energy security is becoming major concern. Rooftop Solar installation is a quick and easy solution to meet this crisis. It is also a cost effective solution that helps in reducing the carbon footprint.

Natura Eco Energy has the capability to do a pre-feasibility study of the Roof-top Solar Power Plant i.e. both On-Grid and Off-Grid Solutions. We aim to provide solar rooftop solutions to industries and commercial establishments from KW to MW scale.

Benefits of Roof-top projects:

- No change in existing roof
- Quick Installation
- Energy Security
- Cost Reduction
- Hassle free Investment

At Natura Eco Energy, we aim to provide hassle free, comprehensive monitoring, operations and maintenance support to maximize your return on investment. Our focus to keep our customer's investment productive by continuously optimizing their operations to provide solar power at most competitive lifetime cost.

Our robust O&M infrastructure comprising skilled engineers, inventory management of critical components, spares and consumables along with 24 x 7 security & surveillance support and advance technology support such as SCADA; helps you realize best yield and maximum plant up time with timely preventive maintenance and fastest solution of plant breakdown.



A solar powered pump is a pump running on the power of the sun. It makes efficient use of solar energy and converts it into electrical energy for pumping water to great heights. A solar powered pump can be very environmentally friendly and economical in its operation. This system operates on power generated using solar PV (photovoltaic) system. The photovoltaic array converts the solar energy into electricity, which is used for running the motor pump set. The pumping system draws water from the open well, bore well, pond etc. The water pumping system can be used to irrigate land, when the water is to be pumped from a depth of well or a pond.





## Solar power potential in India

An increasing demand for electricity and widening gap between demand & supply, India has targeted 20GW of Solar Power by 2022.

India is endowed with rich solar energy resource for its location between the Tropic of Cancer and the Equator.

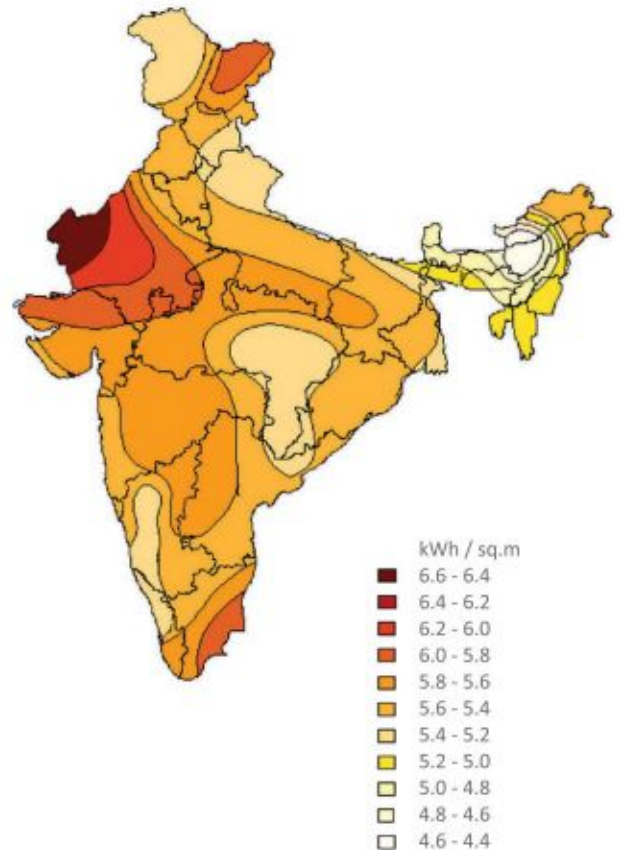
An Average annual temperature that ranges from 25°C – 27.5 °C.

The average intensity of solar radiation received is 200 MW/km<sup>2</sup> with 250–300 sunny days in a year.

As per government estimates, India receives 5000 Petawatt-hours per year (PWh/yr), with most parts of the country receiving 4-7 kWh per square meter per day, the hours of sunshine ranging from 2300 to 3200 per year (depending upon location).

The highest annual radiation is received in Rajasthan, northern Gujarat and parts of Ladakh region, the parts of Andhra Pradesh, Maharashtra and Madhya Pradesh also receive fairly large amount of radiation as compared to many parts of the world especially Japan, Europe and the US where development and deployment of solar technologies is maximum.

A 35,000 km<sup>2</sup> area of the Thar Desert (Rajasthan) has been set aside for solar power projects, sufficient to generate 700 GW to 2100 GW.







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We develop building integrated photovoltaic solutions which are used for the replacement of conventional construction materials from different parts of the building's exterior such as skylights, façades, windows, curtain walls or roofs.

We know that the cheapest energy is the energy that is not consumed, therefore is why we offer multi-functional photovoltaic constructive solutions which can be integrated perfectly into any type of building, provide greater both acoustic and thermal insulation and at the same time produce clean, free energy in side, all thanks to the power of the sun.

# BUILDING INTEGRATED PHOTOVOLTAICS



## “What makes our solutions special?”

Ours are multifunctional bioclimatic solutions which combine both active and passive properties to give a great many advantages to the buildings which incorporate them.

- |   |                                     |  |
|---|-------------------------------------|--|
| 1 | ENERGY<br>GENERATION                |  |
| 2 | UV & IR<br>FILTER                   |  |
| 3 | NATURAL<br>ILLUMINATION             |  |
| 4 | INNOVATIVE<br>DESIGN                |  |
| 5 | REDUCE<br>CO <sub>2</sub> EMISSIONS |  |

## “Why do our solutions add value to any building or construction project?”

Our Multifunctional Building Integrated Photovoltaics (BIPV) solutions allow for the entry of natural light, provide both thermal and sound insulation, they filter out harmful radiation, produce clean, free energy thanks to solar power and feature an innovative, customized design which can be integrated perfectly into any type of building.



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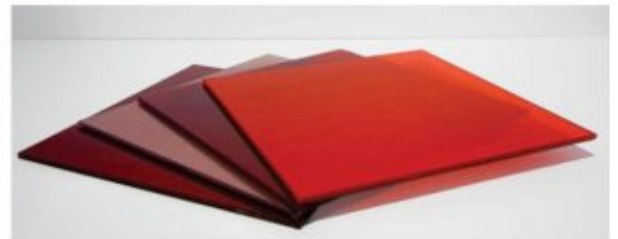
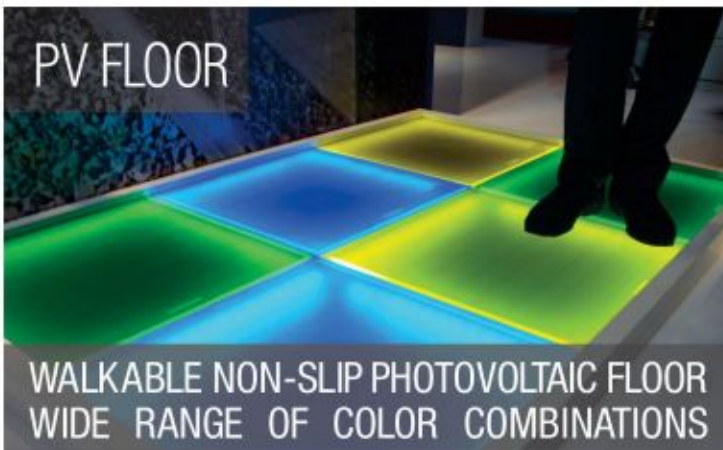




# COLORED PHOTOVOLTAIC GLASS

We offer you the first colored photovoltaic glass adapted to construction standards. An innovative solution for any type of building in the same price range than other conventional construction materials.

If you are working on an unique Project which requires a non-standard photovoltaic glass with special features, we will design a 100% customized glass adapted to your needs.



## TURNKEY PROJECTS



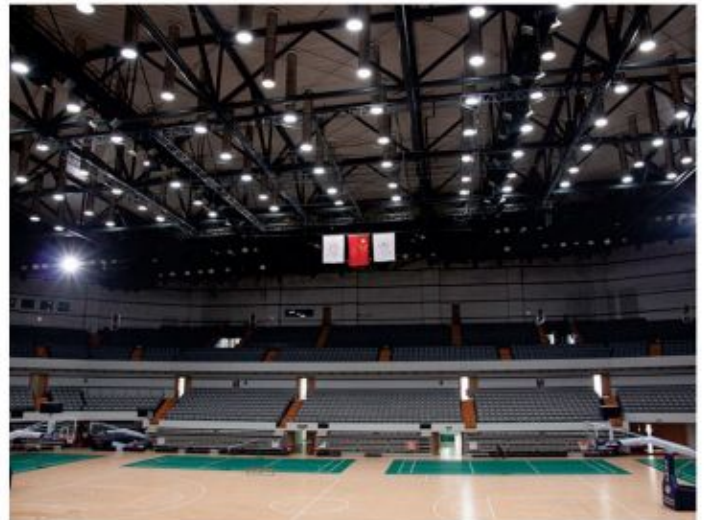




# SOLAR TUBULAR DAY-LIGHT

When it comes to lighting, we believe that access to daylight is a human right. Studies have shown that people exposed to natural light are more productive, achieve a better sense of well-being, and are more positive. Until recently, the technology to deliver natural light to interior spaces like closets, offices, industries, indoor area and corridors simply didn't exist. That's no longer the case.

Natura day-lighting devices are affordable, high-performance lighting solutions that bring daylight into interior spaces where traditional skylights and windows simply can't reach. Sometimes called "tubular skylights," "light tubes," "sun pipes," and even "light tunnels," Tubular Day-lighting have become the ideal solution for lighting interiors in a cost-effective, energy-efficient and eco-friendly way because they significantly reduce the need for electricity while keeping people connected to the outdoor environment.



## Applications

- INDOOR STADIUM
- THEATER
- MALL
- GROCERY MARKET
- SHOWROOM
- SPORTS COMPLEX
- TUNNEL
- WARE HOUSE
- HOSPITAL
- FACTORY BUILDING
- SHOPPING MALL
- SERVICE STATION
- RESTAURANT
- HOME
- OFFICE
- LOGISTICS & CARGO
- EDUCATION INSTITUTE
- CORPORATE BUILDING



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Selecting the right Tubular Day-lighting for your residential or commercial project is a crucial decision. So we have partnered with patented technologies provider to significantly improve the way daylight is captured and delivered to interiors.

Tubular Day-lighting are modular and easy to connect to ceiling systems. And unlike traditional skylights, they are designed to control the problematic aspects of sunlight. They reduce glare and inconsistent light patterns. They also screen infrared rays that can overheat interiors as well as ultraviolet rays that can fade furniture and fabrics.

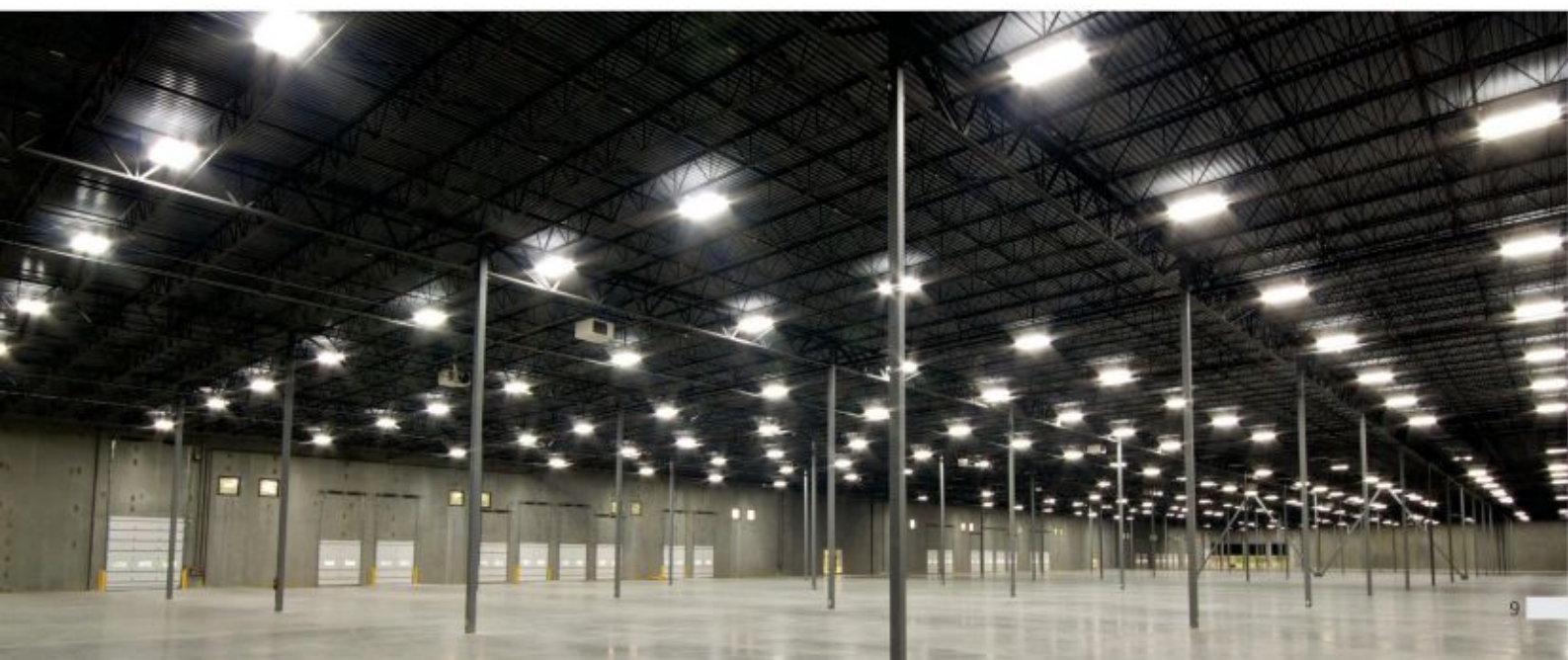
Aside from their functionality, our day-lighting systems also promote creative architectural expression. They can be designed to achieve specific lighting effects. They even can provide illumination for special applications such as living walls and aquariums.



Our day-lighting systems use the best materials, the most advanced technologies, and the most progressive engineering to create products that deliver the highest quality daylight at the greatest output. In fact, millions of units have been installed in residential and commercial buildings to date and we need to install more each day for eco-environment.

And we do it because we believe everyone deserves to experience the benefits that bright, beautiful and free daylight has to offer. That's why designing high-performing, cost-effective and affordable day-lighting systems that reduce electricity use and energy costs are not only our job, it's our passion to provide all sources of Renewable solutions which are available NOW and which will be innovated in the FUTURE.

Natura Day-lighting Systems use a proprietary capture-transfer-delivery process to deliver natural light to places that were once thought impossible. Our products are easy to install, often requiring no structural changes, and are virtually maintenance-free. The fact that they are also energy-efficient, eco-friendly and affordable makes them the ideal choice for any commercial application.







## Natura Eco Energy Pvt. Ltd.

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