

SOLAR PV GROUND MOUNT & ROOFTOP POWER HYBRID BESS-OFF-ON-GRID SYSTEMS



Brightening your day with solar power

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SUN VIEW
Brightening your day with solar power

Heat & Light Renewable Energy Pvt. Ltd

Subsidiary company to SLNS TECHNOLOGIES,
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ABOUT COMPANY

HEAT & LIGHTS RENEWABLE ENERGY PVT.LTD. Sunview Solar energy can play a pivotal role in transforming the life of those in rural India. Sustainable development is closely linked to sustainable energy. Solar energy projects can bring a sea change into the lives of the rural people by setting off a chain reaction of progress and development, boosting education, health care, irrigation, infrastructure and another thrust area.

What makes solar energy the perfect energy options for rural India?

With about 320 clear sunny days in most parts of the country, solar energy has tremendous potential in India. Solar photovoltaic systems, that convert sunlight into electricity, can be created at the point of demand. Decentralized of PV grid-quality power, in fact, is the only answer for remote and isolated villages where grid-based power may take years or even decades to reach.

This 'home grown' energy produces no emission, conserves local resources and helps provide vital service to rural areas.

Being modular, SPV systems can be installed in single or multiple units, can be easily transported, rapidly installed and conveniently expanded, according to specific requirements. Finally, because they lack moving parts, PV systems are low maintenance, long service technologies, with no recurring costs for the beneficiaries. HEAT & LIGHTS RENEWABLE ENERGY the leading Solar Power Back-up Solution Provider Company, we have 15 years' experience in solar profession. company is started our own Brand name in the name of sun Kraft is with its consistent focus on technological innovation, has attained heights unheard of, in the largely unorganized industry. Having a clear technological edge, creating new benchmarks and upgrading standards for the industry, comes naturally to HEAT & LIGHTS RENEWABLE ENERGY. Today, HEAT & LIGHTS RENEWABLE ENERGY is the established leader in product innovation, design sensibility and sales distribution network, HEAT & LIGHTS RENEWABLE ENERGY have basement technical people to top end technical support, with. HEAT & LIGHTS RENEWABLE ENERGY have several state-of-the-art production facilities, systematically planned and built to modern construction standards. The plants are equipped with sophisticated assembly lines and are backed by completely integrated in-house component manufacturing facilities and R&D Centers. HEAT & LIGHTS RENEWABLE ENERGY. The trust reposed in HEAT & LIGHTS RENEWABLE ENERGY by two of the most powerful business groups in the world is indicative of its standing and potential. All HEAT & LIGHTS RENEWABLE ENERGY products have invariably received overwhelming response from the market, as it creates products which eventually enhance the quality of life for its users, while giving them real value for money. Having pioneered the field of Inverters, HEAT & LIGHTS RENEWABLE ENERGY today provides an array of solar products and high-capacity inverters (Standard and customized) for Industrial usage. HEAT & LIGHTS RENEWABLE ENERGY pride itself on being a customer focused organization and its products are engineered and manufactured to consistently provide reliable solutions to its customers. Having a nationwide presence through a network of branch offices and channel partners, HEAT & LIGHTS RENEWABLE ENERGY ensure complete and efficient service to its customers. Continuous focus on quality HEAT & LIGHTS RENEWABLE ENERGY leading solar manufacturer in India. We have 20,000 Sq ft manufacturing Plant at Bangalore.

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<u>ON/OFF/ Hybrid Photovoltaics Power Plant Solar water heater, Lighting systems and solar agriculture pumps.</u>
Hot Water, Wherever, whatever.

Every business is constantly striving to maintain a fine balance between costs and revenues, between expenses and earnings. A fact we at SLNS technologies both understand and appreciate. After all, in today's competitive world, money saved is money earned. Offering your business valuable savings in electricity bills are the domain stick solar water heating systems from SLNS technologies Drawing free and endless energy from sun, these system are specially designed for business and industries that require vast quantities of hot water every day, whether it is for cooking or bathing washing, cleaning, sterilizing, boiler feed, process feed and process heating. Reliable and efficient, solar water heating system from SLNS technologies also demonstrate your company's concern for the environment and your commitment towards helping build a better world.

HEAT & LIGHTS RENEWABLE ENERGY is an experienced solar power consulting company. We deliver integrated sustainable solar energy production solutions. Our portfolio comprises of solar systems for private and commercial users as well as the public sector. We are experienced in solar power Engineering, Procurement, Construction and Supply of economic solar power installations. Our trained and professional team add real value for your solar project and will carry out the detailed engineering design of the project, procure all the equipment and materials necessary, and then construct to deliver a functioning facility or asset to clients. We do not compromise on quality, performance and longevity of the systems we deliver. We design them by combining components from leading producers with those we have developed and produced ourselves. We also offer transparent and customer friendly warranty provision

HEAT & LIGHTS RENEWABLE ENERGY provides Engineering, Procurement and Construction solution for Off-grid/On- Grid installations for homes, agriculture users, public facilities and large commercial projects. We also offer a broad range of special architectural applications and off grid standalone installations. Solar power installations have to be ecologically and economically profitable. Precise planning, meticulous selection of premium components and their optimal harmonization with each other are important building blocks of solar success.

HEAT & LIGHTS RENEWABLE ENERGY built on a platform of over 20 years knowledge in the area of solar power and energy management. The HEAT & LIGHTS RENEWABLE ENERGY team comprises of seasoned consulting, design, and management professionals and experience is our hallmark. We have ability to solve the problem with the aim to build solid dividends on a secure investment, reducing dependence on conventional energy.

We understand the current trends within our industry and also gain insight to the environment of Clients, Technology, and Society in general, so that our solution becomes relevant and provides the needed impact. We focus on result rather than work, enthusiastic about sharing knowledge, committed to a life time of learning, reading, observing, and growing. We consider ourselves part of global network in shaping transformation to produce clean, decentralised and fairly shared energy we need to live on earth.

HEAT & LIGHTS RENEWABLE ENERGY has a strategic alliance with advisory panel supported by "the brightest and best". Our advisory board members are more experienced and knowledgeable in their pertinent field. We are seeking a professional opportunity to prove our skills to benefit your organization by capitalizing our professional success as consultant. We are having the talent and the experience to become the best performers. We also have knowledge of various key areas that will definitely impact bottom line.

Our team is comprised of core professionals in this field, who have been dedicated to solar industry for the past several years. The combined experience of our core group exceeds 20 years in solar water heating and solar photovoltaic systems. Our team in Marketing, Production, Quality and Projects are veterans in their respective areas with the design and installation experience of over 3 Lakh liters in solar water heating system and cumulative of 25 MW of Solar Off-Grid and On-Grid connected power plant in India. Thus with our inherent strength, we can confidently present ourselves and ensure that we deliver the best designed and operational system.

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Our Mission:



- To create awareness about the uses of Solar, Wind, Biogas and Biomass based various technologies among the public.
- To promote the installation of power plants based on renewable energy sources for energy Security.
- To promote the energy conservation measures for efficient use of energy resources.
- To promote green building design for efficient use of energy in housing, commercial and industrial sector.

1MW SOLAR POWER PLANT@PANDIT DEENADAYAAL UNIVERITY GANDHI NAGAR









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2X100kWp SPV Plant for Oil India Ltd, Assam & Rajasthan Tannot













100kWp SPV Plant for Focus Energy, Delhi



400 KW –Sri Eshwar Rice Mill Pvt Ltd-SHIMOGA Karnataka





500 KW-Sri. Shailendra Babu (Veer O Metal Campus)-Bangalore





10MW & 2MW CAPTIVE 66KV GRID SYNCHRONISED POWER PLANT











BESS 8KWP &5KWP SOLAR PETROLIUM BUNKS ROOFTOP SYSTEM

DIFFERENCE BETWEEN METAL ALLIED, SODIUM VAPOUR LAMP AND LED LAMP

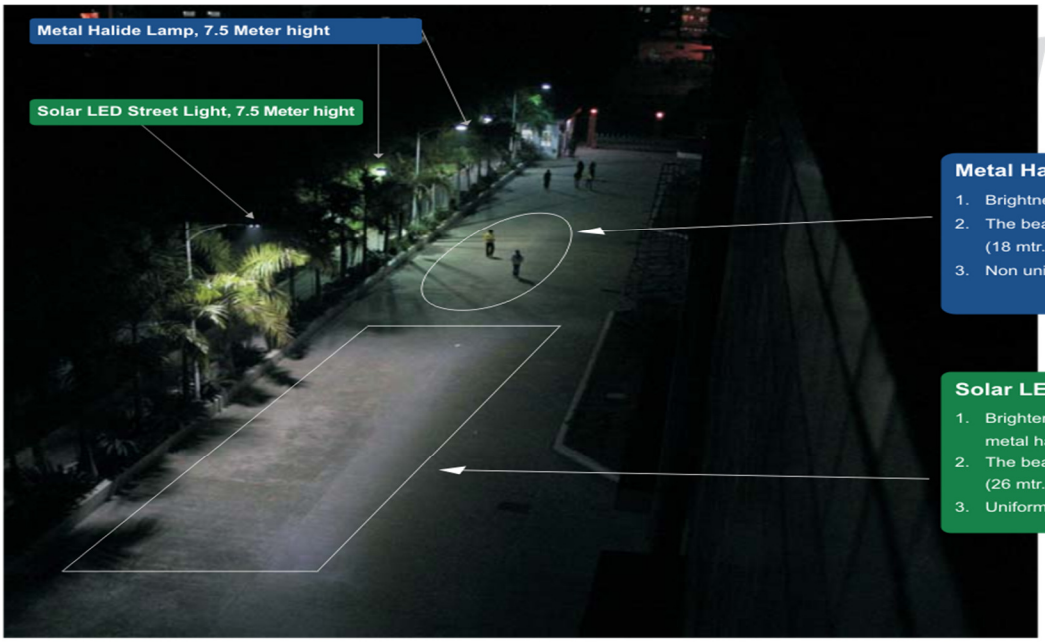


A
Solar LED Street Lamp
No glare. Colour & Temperature is comfortable, The objects appears clear with true colours.

B
Metal Halide Lamp
Strong Glare, The Colour & Temperature is high. The objects do not appear clear.

C
Sodium Vapour Lamp
Strong Glare, The Colour & Temperature is low. Objects do not appear clear.

LIGHT SPREAD BETWEEN METAL HALID & LED LAMP



Metal Halide Lamp
1. Brightness is lower than LED lamp.
2. The beam pattern is oval (18 mtr. x 9 mtr.).
3. Non uniform illumination.

Solar LED Street Light
1. Brighteness is higher than the metal halide lamp.
2. The beam pattern is rectangular (26 mtr. x 10 mtr.) and very clear.
3. Uniform illumination.





Stand alone Solar LED Street & High Mast LED Lights with LIFE PO4 Battery Backup





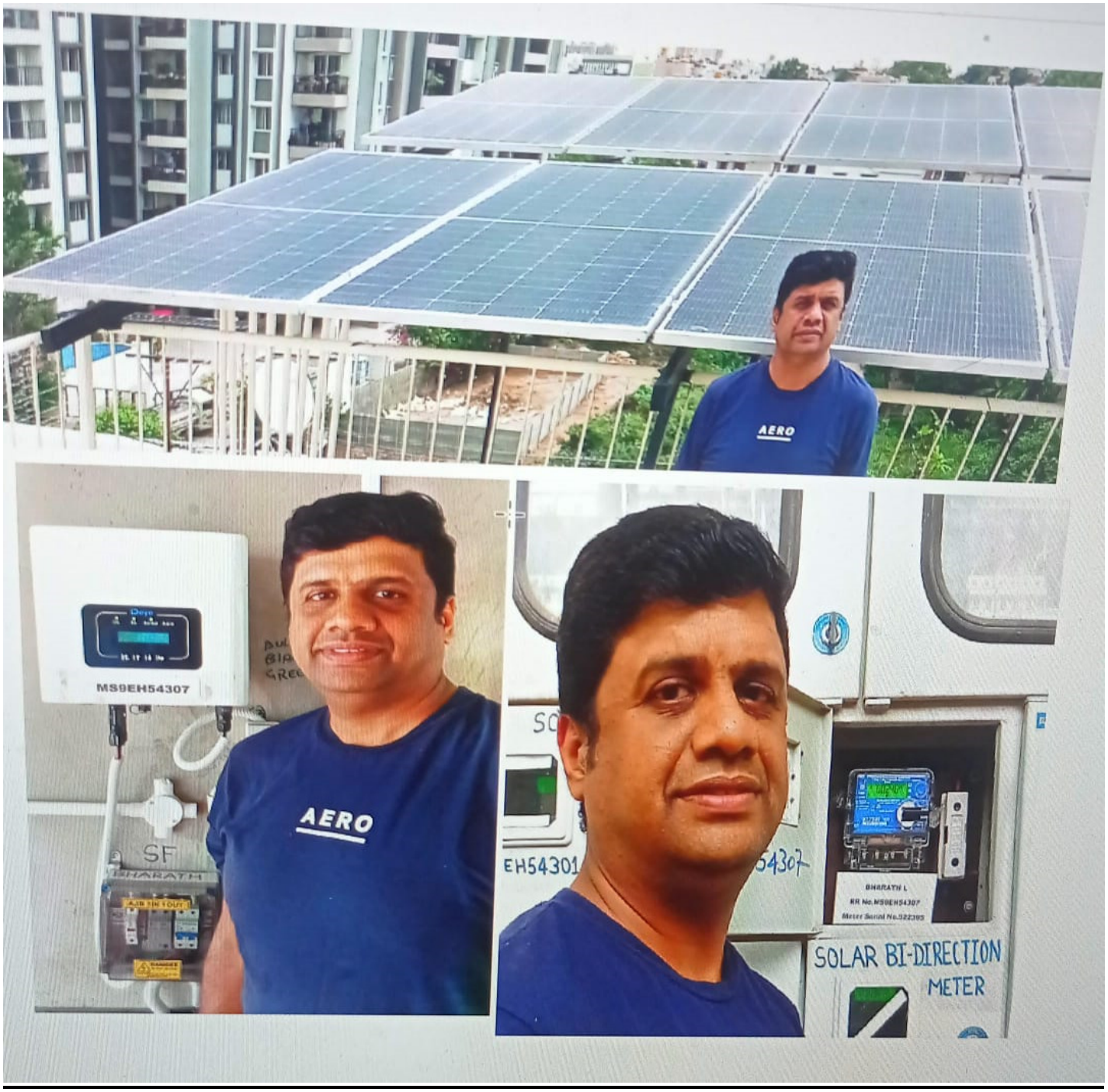
300MW SOLAR POWER PLANT MONO AXIS TRACKER PROJECT@RAFIQ SAUDI ARABIA





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3KWp PMSURYA GHAR BIJLI YOJANA SRT PROJECT







12KWp SOLAR ROOFTOP PROJECT

3KWp PMSURYA GHAR BIJLI YOJANA SRT PROJECT



Our Team Experienced Solar Power plants as follows,

- India s first 1MW Solar Power Plant with All Technologies CSP PV with GPRS Tracker and Fixed Ground Mounted Structure Installed at Gandhi Nagar Which Inaugurated Mr. Narendra Modi.
- 5MWp Solar Power Plant Poly Crystalline Modules with Fixed Ground Mounted Structure Installed at Shivanasamudram At Shimsha Hydro Plant for KPCL/ BHEL
- 5MWp Solar Power Plant Mono Crystalline Modules with Fixed Ground Mounted Structure Installed at Faridabad for NTPCL
- 40MWp Solar Power Plant Poly Crystalline Modules with Fixed Ground Mounted Structure Installed at Neyveli Thermal Power Plant for NLC/ BHEL.
- 436KWp Captive Solar Power Plant Poly Crystalline Modules with Fixed Rooftop Structure Installed at KSCA Chinn Swamy Cricket Stadium Bangalore.
- 15MWp Solar Power Plant Thin film Modules with Fixed Ground Mounted Structure Installed at Charanka Solar Park at Gujrat Power Plant for GPCL
- 5MWp Captive Solar Power Plant Poly Crystalline Modules with Fixed Ground Mounted Structure Installed at Bharat Heavy Industry Ltd Ranipet for BHEL
- 121 KW Solar Rooftop power plant Shankar Nethiralaya HOSPITAL–Chennai.
- 1.9 MW Cumulative ISRO Karnakata and Kerala(BoS and I & C).
- 535 KW-Sri. HS Mahdev- Solar Power Plant Under BESCOM net metering Concept-Makali,Bangalore.
- 50 KW-Hajra Palace Dharwad Solar Power Plant under HESCOM metering concept.
- 190 KW -AKSHAY TECH PARK-Whitefield Bangalore under captive use.
- 146.88 KW- Bhramara Polymers Pvt Ltd, Jigani, Bangalore under net metering and captive use.
- 40 KW-R.Rudryaardya & Company-Bangalore.
- 245 KW-Abhilash Software Development Center (TCS campus)-White field Bangalore.
- 400 KW-Eshwar Rice Mill Pvt Ltd-Shimoga Karnataka.
- 500 KW –Sri.Shailendra Babu (Veer O Matals).Bangalore under captive Rooftop.
- 110 KW-Prasad Enclave Peenya Bangalore under captive rooftop.
- 1 MW-Bhramara Polymers Pvt Ltd under captive open access (Repeat Order).
- 325 KW-Smt.Poornima Babu (Weir Minerals Campus)-Bangalore (Repeat Order).
- 675 KW-Sri.Shailendra Babu (Unibic Biscuits) Bangalore.
- 282 KW-Sri Balaji Wire Netting industry Bangalore.
- 200 KW-Mahakashmi Industries-Yeshwathpur Bangalore
- 150 KW- IndiQube Edge-Bellandur Bangalore.
- 600 KW-Raissy Trading Co.-Riyad,Suadi Arabia.

Our Mission:

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- **To promote the installation of power plants based on renewable energy sources for energy Security.**
- **To promote the energy conservation measures for efficient use of energy resources.**
- **To promote green building design for efficient use of energy in housing, commercial and industrial sector.**

VISION & MISION

Heat & Light Renewable Energy company are provided the complete solutions with Engineering design, manufacturer, Supply, Erection, Testing and Commissioning of Solar Power plant Projects on your firm as per your wishes and Solar EPC KW to MWh Scale Projects Power Solutions for All Type Industries Government and Colleges Institutions to save the Money or Electricity, CO2 Emission Green Earth Energy saving Solar Rooftop Solutions provider of Solar Modules Mounting Structures, Products like Solar Modules, ON/Off Grid Inverters, Solar water pumps Systems Data loggers & Data Gateways. Solar Power Generation Monitoring System.

In the view of above I am availing this opportunity to introduce our Company. We are in the Heat & Light Renewable Energy Pvt Ltd is **ISO 9001-2015, 45001-2018** *Certified and specialized contractor for* **EPC Solar Power solutions with Electrical, Mechanical, Systems and site construction complete activities** *for Engineering, Supply, Installation, Testing & Commissioning. We are approved in* **MNRE, Bangalore Electricity Company (BECOM), CESCOM, MESCOM and GESCOM.**

With adequate skilled manpower and financial resources available with us, we are in an ideal position to execute any EPC Projects in Saudi Arabia. We have all required resources (Team, Heavy Equipment, Tools, Installation and Testing Devices) inhouse to deliver Customer standards successful project which is related to following.

- Ø Design *Engineering, Supply, Installation and Commissioning of Solar system (Renewable Energy)*
- Ø Maintenance *services of Gas Turbines, Power Generators, Compressors, Boilers, Heat Exchangers, Exhaust system and Cleaning of Crude oil Tanks.*
- Ø Design *Engineering, Supply, Installation and Commissioning of Electro-Mechanical and Control system in Power Plants*
- Ø Design, *Supply, Installation and Testing & Commissioning of TIAC system.*
- Ø Design, *Supply, Installation and Commissioning of Power Transmission Lines & UG Cables.*
- Ø Design, *Supply, Installation Testing & Commissioning of street Lighting & Security Control & Monitoring.*
- Ø Civil *Construction Works*
- Ø Design, *Supply, Installation and Commissioning of Fire Fighting, Control, Alarm and Protection System.*
- Ø Design *Engineering, Supply, Installation and Commissioning of Solar system (Renewable Energy)*
- Ø Design, *Supply, Installation and Testing & Commissioning of MV, & LV Substations.*

We are acquirees continuously for EPC/ Work Contracting projects different kind Solar Solutions in the said projects.