VIDHATRI
VENTURES

PRODUCT CATALOGUE

Vidhatri Energies

Solar and LED solutions for homes, businesses and industry

Grid-Tied Solar	**Solar Home Lighting**	**Solar Street Lights**
Solar Water Pumps	**Solar Lanterns**	**LED Lighting**

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ABOUT US

Clean energy, planned around your site

Vidhatri Energies is the renewable energy and energy-efficient lighting division of Vidhatri Ventures, based in Hyderabad, Telangana. We supply and install solar power systems and LED lighting for homes, commercial buildings, institutions and industry, and help each customer choose a system sized to their actual load rather than a one-size-fits-all package.

Why solar

- A renewable source of power that does not run on fuel, which helps shield you from rising electricity costs.
- Rooftop systems put idle roof space to work and can feed surplus power to the grid under net metering.
- Systems scale from a single lantern to multi-kilowatt industrial installations.
- Off-grid options keep lights, fans and pumps running where grid power is weak or absent.

Why LED lighting

- Uses much less electricity than conventional lighting for the same brightness.
- Rated LED life above 50,000 hours, so fewer replacements and less maintenance.
- Instant on/off, and life is not shortened by frequent switching.
- No mercury or lead, so there is no hazardous material to dispose of.

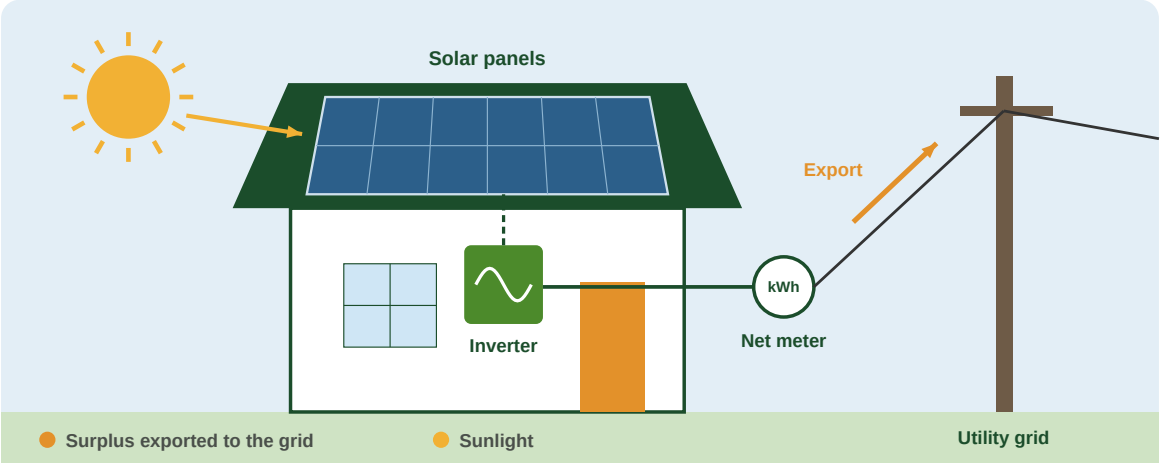
What we offer

Solution	What it covers
Solar Grid-Tied Systems	Rooftop generation with net metering for industries, institutions, offices, hospitals, banks and malls.
Solar Home Lighting	Battery-based inverter systems that run lights, fans and appliances. Higher ratings available.
Solar Street Lights	12 W to 80 W all-weather LED street lights, IP65 rated.
Solar Water Pumps	0.5 HP to 30 HP pumping systems, single or three phase.
Solar Lanterns	Portable lanterns with phone-charging point, 3 W and 5 W models.
LED Lighting	Industrial, street, flood, tube, down lights, garden, decorative and more.

SOLAR POWER

Solar Grid-Tied Systems

A grid-tied system generates power on your roof and uses it on site first. Any surplus is exported to the grid through a net meter, and you draw from the grid only when the sun is not enough.



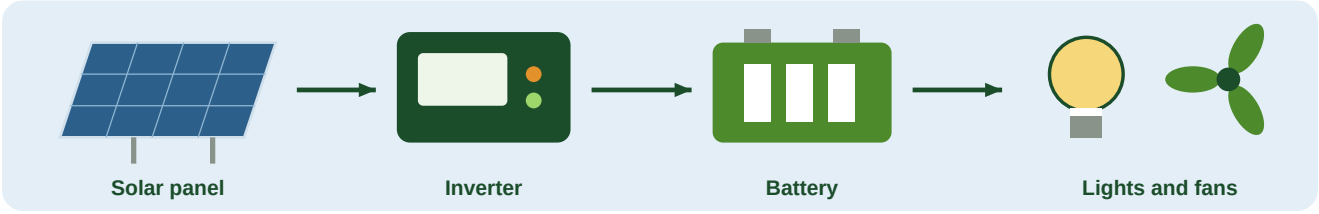
Benefits

- Turns vacant rooftop into a source of electricity.
- Self-consumption with export of excess power under net metering.
- Clean generation with no fuel and no emissions on site.
- Suitable for industries, educational institutions, corporate offices, hospitals, banks and shopping malls.
- Can reduce diesel generator use where DG back-up is provided.

SOLAR HOME LIGHTING

Battery-Based Solar Inverter Systems

Sizing guide for typical loads. Higher ratings are available, and we can also add solar to an existing inverter.



Inverter (VA)	Solar PV panel (W)	Battery (Ah)	Typical load
200	75	40	1 fan, 2 CFL
300	150	75	2 fans, 5 CFL
400	220	100	3 fans, 7 CFL, or 2 fans, 2 CFL, 1 TV / PC
600	280	135	3 fans, 5 CFL, 1 TV / PC, or 5 fans, 7 CFL
800	360	150	6 fans, 10 CFL, or 4 fans, 7 CFL, 1 TV / PC
1000	560	270	8 fans, 10 CFL, 1 TV / PC, or 11 fans, 10 CFL

CFL load figures are for 20 W points. Actual backup time depends on battery condition, sunlight and usage.

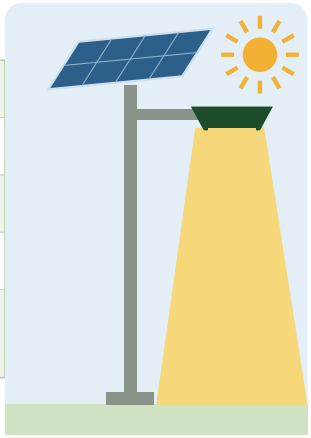
OUTDOOR LIGHTING

Solar Street Lights

Self-contained LED street lights that charge by day and light up by night. Plastic enclosure on the 12 W and 15 W models, die-cast aluminium on 24 W and above.

Model	VE-SL-12	VE-SL-15	VE-SL-24	VE-SL-30	VE-SL-40	VE-SL-60	VE-SL-80
LED watts	12	15	24	30	40	60	80
Luminous lux	990	1320	1980	2640	3520	5280	7040
Enclosure	Plastic	Plastic	Die-cast Al	Die-cast Al	Die-cast Al	Die-cast Al	Die-cast Al

LED colour	Cool white / warm white / natural white
Operating temperature	-20°C to 60°C
Protection grade	IP65
Automatic ON/OFF	Optional
Bypass AC input (230 VAC)	Optional



PORTABLE LIGHTING

Solar Lanterns

Portable solar lanterns with a mobile phone charging point, suited to homes, shops and areas with unreliable power.

Specification	3 W LED Lantern	Model II (12 V)
Solar module	3 W	5 W
Battery	6 V, 4.5 Ah	12 V, 7 Ah
Light source	3 W high-brightness LED	5 W high-brightness LED
LED life	> 50,000 hours	> 50,000 hours
Charging time	1 day	1 day
Hours of operation	4 to 5 hours	8+ hours
Solar module wire length	5 metres	5 metres

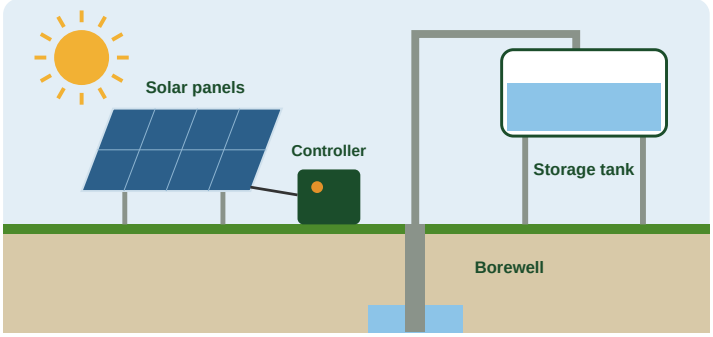


- Mobile phone charging point
- Omni-directional bright white light
- 3-step dimming, simple and safe to use
- Protections and indicators: battery voltage sensing, low and high voltage cut-off, charge indication

WATER

Solar Water Pumps

Solar pumping systems for irrigation, borewells and water supply, available from 0.5 HP to 30 HP with single-phase or three-phase motors. They can run on solar, or on solar with mains support.



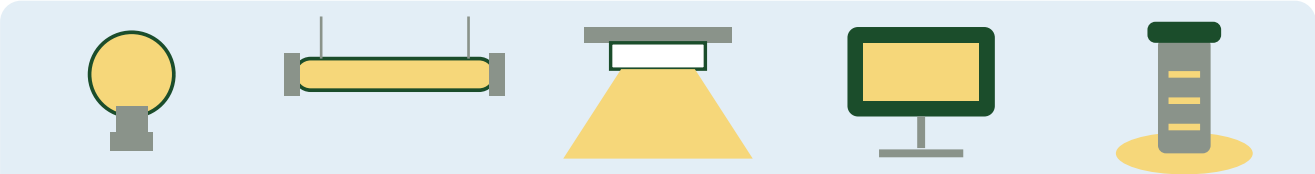
Features

- Pump output adjusts to the solar energy available
- Level probe control for tank monitoring
- Fault detection, with under-load and overload protection
- Operation from solar or mains power
- Built-in MPPT and speed regulation
- Anti-reflective glass panels with good low-light performance
- IP65-rated solar panel

LIGHTING

LED Lighting Range

Energy-efficient LED fixtures for industrial, commercial and public spaces.



Industrial & public	Commercial & architectural	Decorative & outdoor
LED industrial lights LED street lights LED aviation and traffic lights LED flood lights and linear wall washers LED display boards	LED tube lights and cove lights LED recessed and surface-mounted down lights LED integrated down lights LED step lights LED wall lights	LED garden and pathway bollards LED underwater lights LED table lamps LED chandelier lamps

GET A QUOTE

Tell us your site and load. We will size the system and send a quotation.

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Illustrations are indicative. Specifications may change with product updates; please confirm details at the time of order.