



**SOLAR EPC  
& DEVELOPMENT**



**E-MOBILITY  
SOLUTIONS**



**ENERGY STORGAE  
SYSTEM**



**The sun-- that power plant  
in the sky--bathes Earth in  
ample energy to fulfill all the  
world's power needs many  
times over. It doesn't give off  
carbon dioxide emissions.  
It won't run out. And it's free.**

**RANQERS POWER INDUSTRIES PVT. LTD.**  
1125# UPPER GROUND FLOOR, NAKSH CITY  
MAIN BIJNOR ROAD, LUCKNOW, RAEBARELI



## CORPORATE PROFILE:

*Solar energy* is a powerful source of energy that can be used to heat, cool, and light homes and businesses.

More energy from the sun falls on the earth in one hour than is used by everyone in the world in one year. A variety of technologies convert sunlight to usable energy for buildings. The most commonly used solar technologies for homes and businesses are solar photovoltaic's for electricity, passive solar design for space heating and cooling, and solar water heating.

Businesses and industry use solar technologies to diversify their energy sources, improve efficiency, and save money. Energy developers and utilities use solar photovoltaic and concentrating solar power technologies to produce electricity on a massive scale to power cities and small towns.

*Ranqers Power Industries Pvt.Ltd.* is a Professional consultancy company engaged in business of Renewable Power projects. We provide full End-to-End solutions for all Solar. The Firm is Back-by Technocrat Personalities. Ranqers is a green energy solutions provider founded by professional technocrats from Engineering, Energy, management and Marketing fields. Driven by a passion for green energy, the founders merged their strengths and combined experience of more than 10 years to become a leading provider of affordable, innovative and high quality renewable energy solutions in India.

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## WHY RANQERS SOLAR?

*There are four core principles that we at Ranqers solar apply to every solar integration and client engagement.*

***Single Point of contact and End to End solutions*** We believe in helping the client out with everything involve in the project. Even after commissioning the project, Ranqers Solar provides dedicated operation and maintenance services for 25 Years.

***Path Breaking Technology*** We believe in offering our clients the best technology available to set up solar PV plants. All equipments used in our projects come with the highest quality ratings and performance guarantees. Any technological innovation to improve generation or to lower overall costs is incorporated with in no time in our plants.

***Real time financials Models*** With a clear understanding of cash flows for solar investments, we share real time financial models with clients. This helps the clients decide on the funding options and also gives him a clear and true picture about his return on investments. We incorporate all taxations / subsidy rules to followed treating the project as and independent investment.

***Quality Assurance and Warranty*** We have realized that any investor or power developer looks to build a brand out of the project he invest in / develops. Performance of the plant, warranty on equipment that we use and assurance of generation of power are the goals which we aim to achieve with every client.

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## WHAT DOES RANQERS SOLAR TAKE CARE OF?

*We handle everything for the client, investing in solar PV power project with Ranqers solar ensures a hassle free growth for the said investment over the next 25 Years. Briefly we take care of the following –*



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# HOW SOLAR ENERGY WORKS



**01** Sunlight contains tiny particles of energy called photons

**02** When the sun's rays hit a solar panel, material inside the panel – usually silicon - absorbs the photons

**03** The photons excite the electrons inside the silicon's atoms until they begin to dart around and break away, forming an electrical current

**04** Copper wiring inside the panel serves as a highway for the current

**05** This direct current (DC) travels out of the panel through a control device called an inverter, which changes it to the alternating current (AC) we use

**06** The electricity then passes from breaker boxes to outlets throughout the building

**07** Electrical items such as computers and lights can then run on this pollution - free solar energy

**08** Whatever isn't used goes back into the electrical grid so it can be used by someone else

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## TYPES OF SOLAR SYSTEM

01

ON GRID SOLAR  
POWER PLANT

02

OFF GRID SOLAR  
POWER PLANT

03

HYBRID SOLAR  
POWER PLANT

04

INDUSTRIAL  
& COMMERCIAL  
SOLAR POWER PLANT

05

SOLAR WATER  
PUMP

06

SOLAR ATTA  
CHAKKI

07

SOLAR WATER  
HEATER

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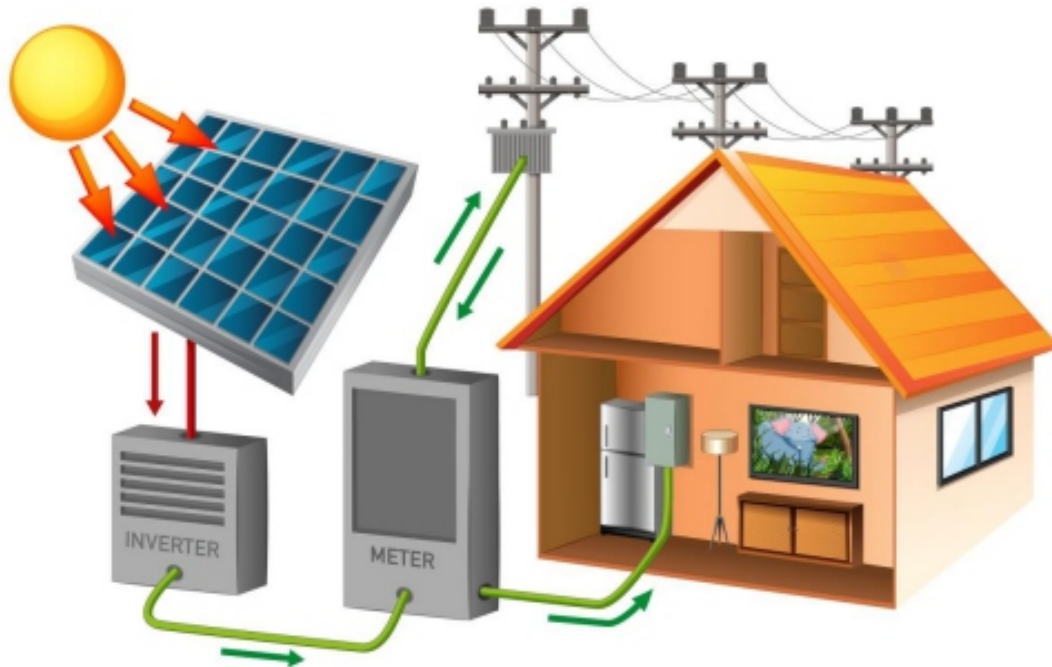
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## ON GRID SOLAR POWER PLANT



This system works in two-ways – the supply of electricity can flow from the grid to which it is connected to the user's home and from the user's home to the grid. This feature makes the on-grid solar system affordable highly useful. The solar panels, installed on the user's home are 'tied' to the grid. The solar panels convert sunlight into electric energy, which is Direct Current (DC). This current is then sent to an inverter. The solar inverter then converts the DC to Alternating Current (AC), thus making it power the electrical items. This electricity is then routed to the grid where it is supplied for day to day use. The grid tied inverter additionally regulates the amount and voltage of electricity fed to the household since all the power generated is mostly much more than a home needs or can handle. An important feature is the net meter. It is a device that records the energy supplied to the grid and the energy consumed. At the end of each month, the outstanding is recorded and the consumer is provided with a bill. This 'converted' power supply is then used by homes through the main electricity distribution panel.

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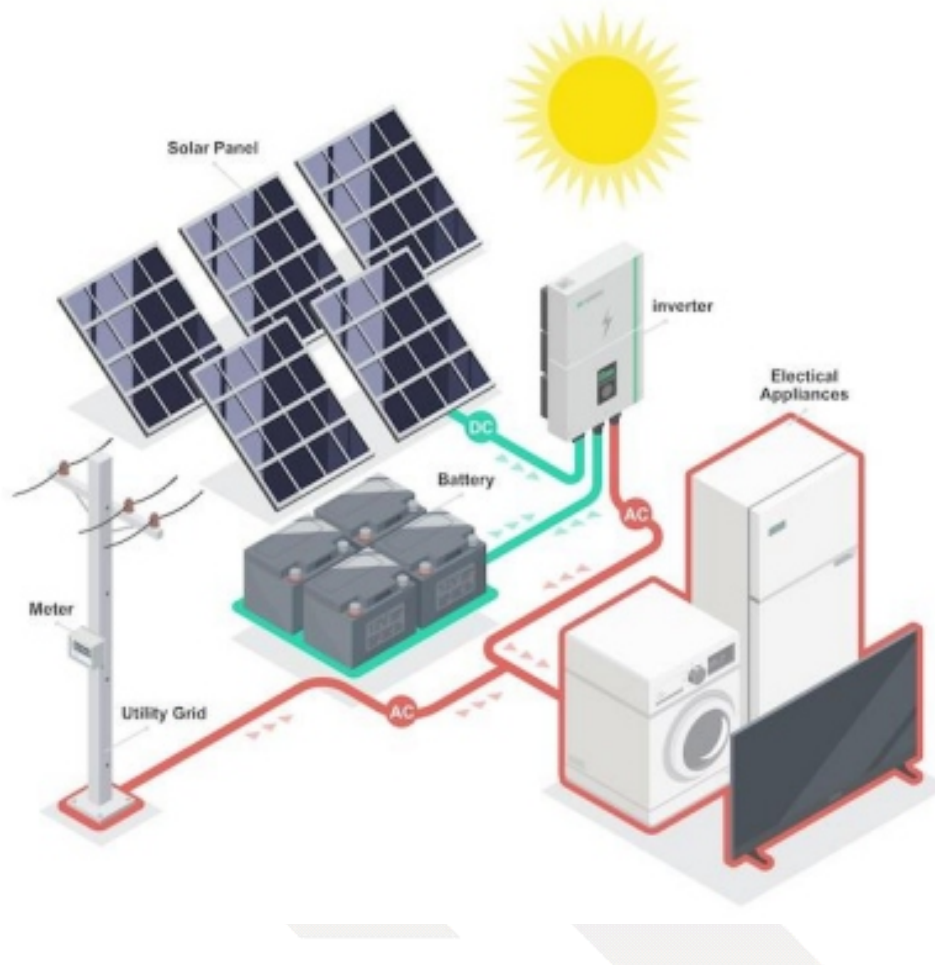
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## OFF GRID SOLAR POWER PLANT



Off-grid Solar Systems – often referred to as Stand-alone power systems (SAPS) – work by generating electricity from solar panels and using it to charge a solar battery via a charger controller. That electricity is then converted using an inverter so that it can power your home or business appliances. By storing the electricity in a solar battery, it is possible to run your home exclusively from solar energy, even at night or during times when there is less than optimal sun exposure.

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## HYBRID SOLAR POWER PLANT



A hybrid solar system has the good features of both on-grid and off-grid solar systems, minus their flaws. The hybrid solar system is connected to the grid via net metering and also has a battery backup to store the power. The energy that solar panels collect goes through a hybrid solar inverter to generate electricity. The most important benefit of a hybrid solar system is the power backup facility. It means you can continue using electricity without disruptions even during power outages. A battery backup helps store the extra power generated by the solar system during peak hours.

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## INDUSTRIAL / COMMERCIAL SOLAR POWER PLANT



Commercial solar energy is intended for businesses. Solar power is a clean, renewable energy source and is a highly successful energy-saving technology. Many clients, from governments and major corporations to small businesses and educational institutions, use commercial solar energy.

A photovoltaic (PV) panel used for commercial purposes transforms solar energy into electricity. The method to transform sunlight into electricity is known as photovoltaic. A commercial solar PV system uses solar panels installed on commercial buildings to harness solar energy and produce power. Depending on the size of the installation, the power produced covers most of the company's energy requirements and can significantly lower energy costs. Public infrastructures like schools, hospitals, and libraries can also benefit from solar power and lower carbon emissions.

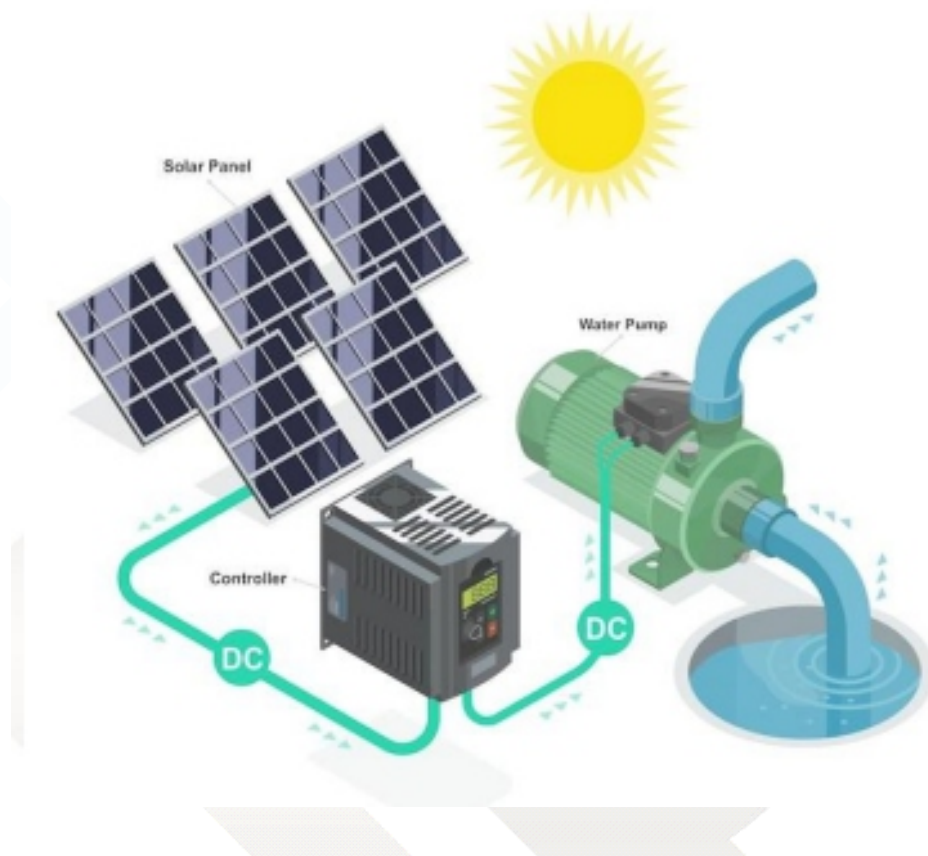
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## SOLAR WATER PUMP



Solar water pumps can supply water to locations which are beyond the reach of power lines. Commonly, such places rely on human or animal power or on diesel engines for their water supply (Omer, 2001). Solar water pumps can replace the current pump systems and result in both socio-economic benefits as well as climate related benefits. The water supplied by the solar water pump can be used to irrigate crops, water livestock or provide potable drinking water. A solar water pump system is essentially an electrical pump system in which the electricity is provided by one or several PhotoVoltaic (PV) panels. A typical solar powered pumping system consists of a solar panel array that powers an electric motor, which in turn powers a bore or surface pump. The water is often pumped from the ground or stream into a storage tank that provides a gravity feed, so energy storage is not needed for these systems.

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## SOLAR ATTA CHAKKI



A type of flour mill called a "solar atta chakki" runs on electricity produced by solar panels or photovoltaic cells. This technology offers a cost-effective and sustainable source of energy for milling wheat, maize, and other grains into flour, making it particularly useful in places with limited or no access to grid electricity. A solar panel or array of solar panels that collect sunlight and produce electricity make up most solar atta chakkis. The flour mill is then powered by a DC motor that is driven by this electricity. Some Solar Atta Chakkis also feature a battery system for storing extra energy produced during sunny spells, which can be used to run the mill during times of insufficient sunlight.

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## SOLAR WATER HEATER



Solar water heating system is a device that uses solar energy to heat water for domestic, commercial, and industrial needs. Heating of water is the most common application of solar energy in the world. A typical solar water heating system can save up to 1500 units of electricity every year, for every 100 litres per day of solar water heating capacity. **Parts of the Solar Water Heating System.** A solar water heating system consists of a flat plate solar collector, a storage tank kept at a height behind the collector, and connecting pipes. The collector usually comprises copper tubes welded to copper sheets (both coated with a highly absorbing black coating) with a toughened glass sheet on top and insulating material at the back. The entire assembly is placed in a flat box. In certain models, evacuated glass tubes are used instead of copper; a separate cover sheet and insulating box are not required in this case.

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## ROOFTOP SOLAR PLANT



### Reach us for Rooftop Solar Plant Installations at

- > Residences
- > Industries
- > Cold Storages
- > School / College
- > Other Commercial Establishments
- > Social / Religious Establishments

### Products & Partners

- > Solar Modules with minimum 10-year manufacturing defect and 25 years linear performance warranty
- > Solar Inverters with 5 /10 years warranty
- > Structure of Galvanized Iron/Anodized Aluminium
- > Balance System like cables, wires, earthing etc of reputed makes
- > 5 years preventive maintenance & warranty on entire system

### Advantages of Rooftop Solar Plant

- > Reduce Electricity bill up to 90%
- > Payback in 3 to 5 years
- > Plant Life of 25 years and more
- > Net Metering: Feed excess generation into grid
- > Government Subsidy for select categories
- > Accelerated Depreciation Benets
- > Generation Based Incentives from Government

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## OUR VALUES



- > Have faith, belief and trust in each other
- > Customer First
- > Taking Responsibilities
- > Aiming for Excellence
- > Integrable

## OUR VISION



- > To be the best affordable Premium Solar Solutions Provider in India

## OUR MISSION



- > To create a world class product with best value for money.
- > To increase utilization of Solar Energy.
- > Supply reliable and durable Services.
- > Provide high Quality Products.

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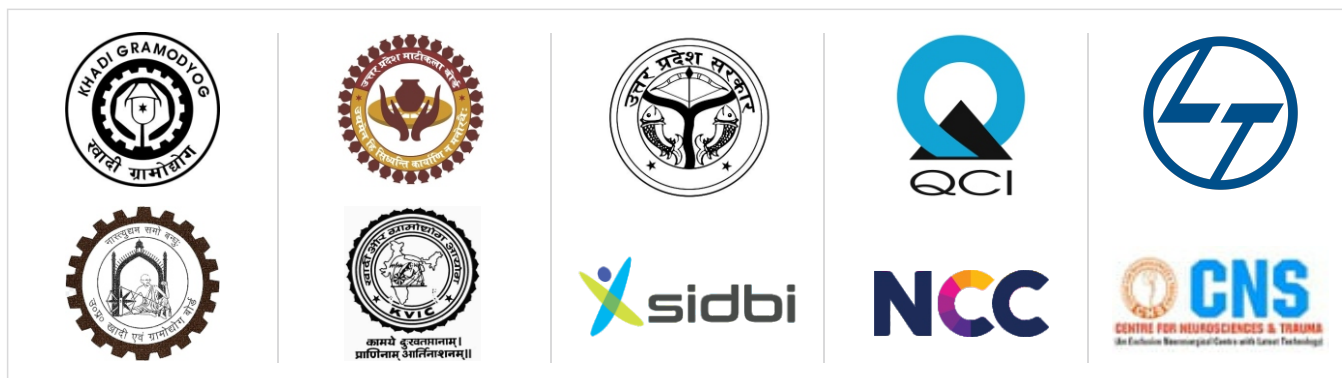
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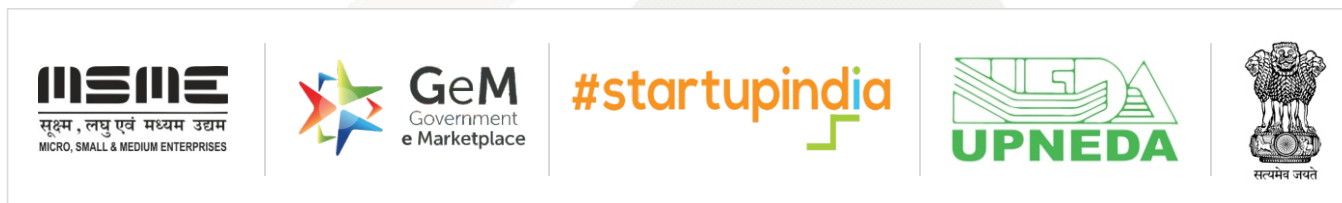
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## ASSOCIATED PARTNERS



## REGISTERED WITH



## AUTHORISED PARTNERS



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## DEALER / DISTRIBUTER / SUPPLIER

**WAAREE**  
One with the Sun

**UTL SOLAR**

**adani**

**EXIDE**

**HAVELLS**  
GALAXY

**POLYCAB**  
Connection Zindagi Ka

**LUMINOUS**  
SOLAR

**TATA**  
POWER SOLAR

**MICROTEK**  
PURE SINEWAVE INVERTERS

## PROJECT DONE BY RANQERS POWER INDUSTRIES PVT. LTD.

1. 160kwp on grid plant at PRARABDH BEVERAGES PVT LTD RAEBARELI
2. 100kwp on grid plant at VAISHNO INDUSTRIES Amethi
3. 40 kwp on grid at ITI COLLEGE DEVARIYA
4. 40 KWP ON GRID AT ITI COLLEGE GAURI BAZAR
5. 40 KWP ON GRID AT ITI COLLEGE RUDAULI BASTI
6. 50 KWP AT CNS HOSPITAL AND COLLEGE LUCKNOW
7. 40 KWP HYBRID AT ROHAN TIMBER LUCKNOW
8. 1000+ KWP RESIDENTIAL on grid plant AT VARIOUS LOCATIONS in uttar pradesh
9. 500+ KWP off grid at various locations in uttar pradesh
10. 50- atta chakki project at various locations in uttar pradesh

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## RANQERS POWER INDUSTRIES PVT. LTD. PROCESS OF EXECUTION

### COMMERCIAL WORK



### RESIDENTIAL WORK



### SOLAR WORK



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