



AM SUNPARK SOLUTIONS PVT LTD

Powering The Future





Introduction

AM SUNPARK SOLUTIONS is a forward-thinking renewable energy company dedicated to providing sustainable, cost-effective, and innovative solar power solutions. With a strong commitment to reducing carbon footprints and promoting clean energy, we specialize in the design, installation, and maintenance of solar energy systems for residential, commercial, and industrial clients.

Harnessing the limitless power of the sun, we offer:

- Solar Rooftop Solutions – for homes, apartments, offices, and industries.
- Solar Power Plants – large-scale installations for sustainable energy generation.
- Solar Street Lighting & Water Heating Systems – eco-friendly alternatives for communities.
- Customized Energy Solutions – designed to meet unique client requirements.



What is Solar Energy?

Solar energy is the power that comes from sunlight and can be converted into electricity or heat for use in homes, businesses, and industries.





Our Vision

to be a leading force in transforming the world towards a sustainable future by harnessing the limitless power of the sun. We envision a cleaner, greener, and energy-independent tomorrow where solar power is accessible to every home, business, and community.



Our Mission

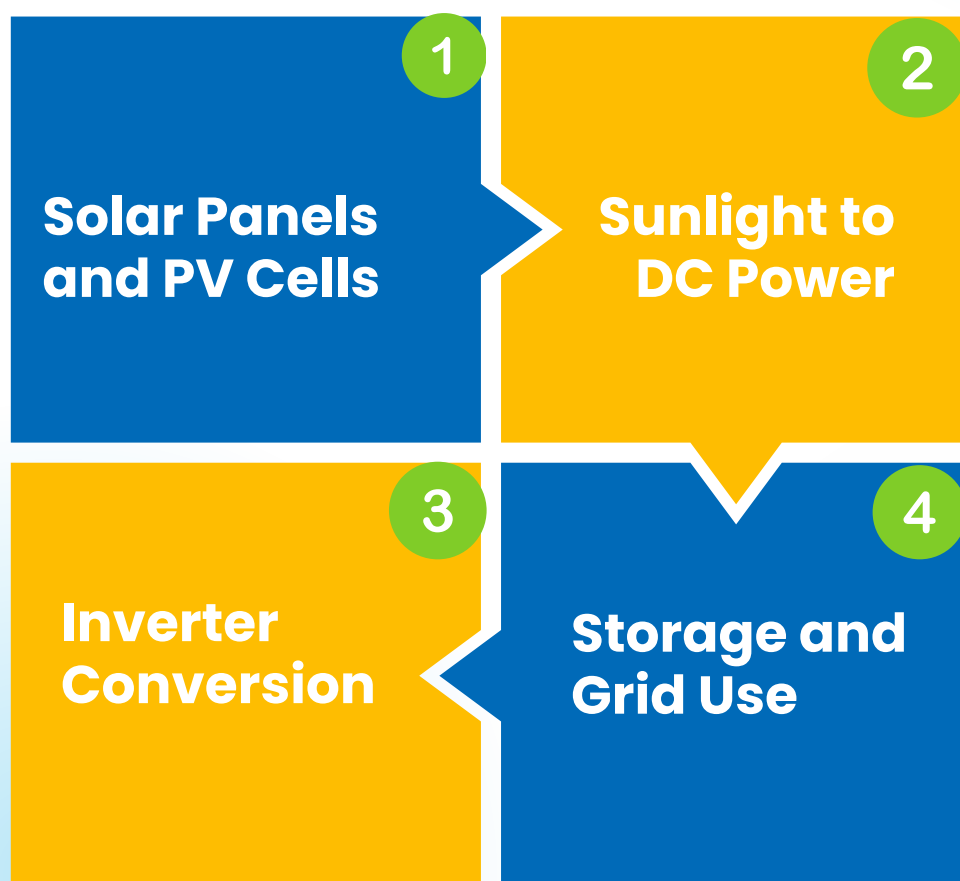
Our mission is to deliver innovative, reliable, and cost-effective solar energy solutions that empower people and businesses to reduce their carbon footprint and embrace a sustainable future.

We are committed to:

- Designing and installing high-quality solar systems tailored to customer needs.
- Making renewable energy affordable and accessible to all.
- Driving awareness about clean energy and environmental responsibility.
- Providing exceptional service and long-term support to our clients.



How Solar Energy Works





Types of Solar Energy Systems

1

Solar Thermal Systems

2

Photovoltaic (PV) Systems

3

Hybrid Solar Systems

5





The Benefits of Solar Energy

Environmental Impact

- Reduces Carbon Emissions – Every kilowatt of solar energy helps cut greenhouse gases that cause climate change.
- Decreases Air & Water Pollution – Solar panels produce electricity without smoke, ash, or harmful chemicals.
- Conserves Natural Resources – Sunlight is infinite, unlike limited fossil fuels.
- Promotes Sustainable Living – Encourages eco-friendly communities and businesses.
- Combats Global Warming – By reducing reliance on fossil fuels, solar energy helps slow down rising global temperatures.

Job Creation

The solar energy industry is not only powering homes and businesses but also powering careers and livelihoods. Every solar project—from small rooftop systems to large-scale solar farms—creates opportunities for skilled and unskilled workers.

- Manufacturing
- Installation & Maintenance
- Research & Innovation
- Sales & Marketing
- Project Management & Support of solar projects.

Cost Savings

One of the greatest advantages of solar energy is its ability to reduce electricity costs for households, businesses, and industries.

How Solar Saves Money:

- Lower Electricity Bills – Solar panels can cut power costs by 50–90%, depending on usage.
- One-Time Investment, Long-Term Returns – After installation, solar systems provide free electricity for 20–25 years.
- Net Metering Benefits – Extra power generated can be sold back to the grid, earning credits or income.
- Low Maintenance Costs – Solar panels require minimal upkeep, making them highly cost-efficient.

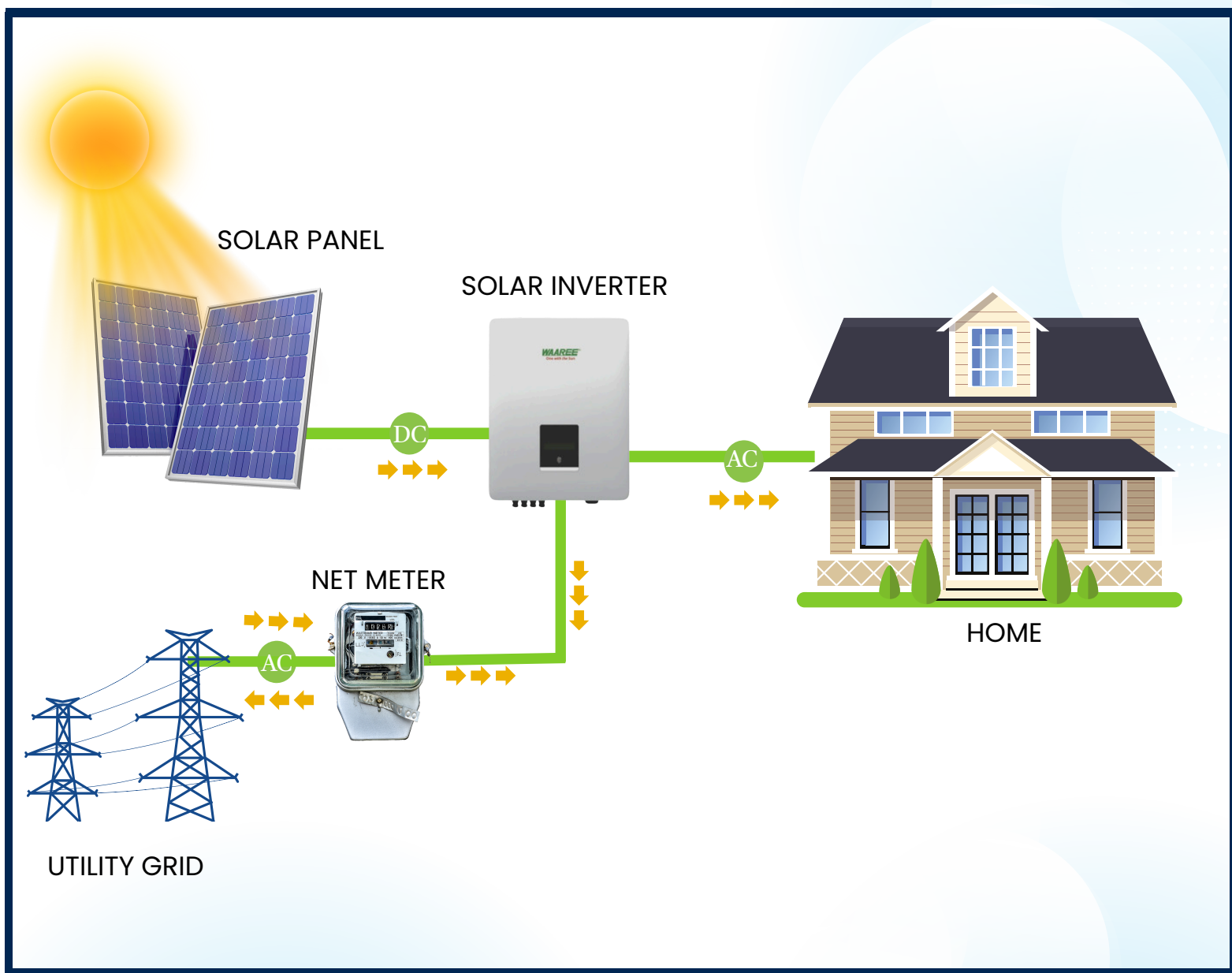
Energy Independence

Solar energy provides individuals, businesses, and nations the ability to become self-reliant in power generation. Instead of depending on costly and polluting fossil fuels or unpredictable electricity tariffs, solar gives you control over your own clean and reliable energy source.

A household with a rooftop solar system + battery backup can run 24/7 without grid electricity, enjoying true power independence while saving costs.

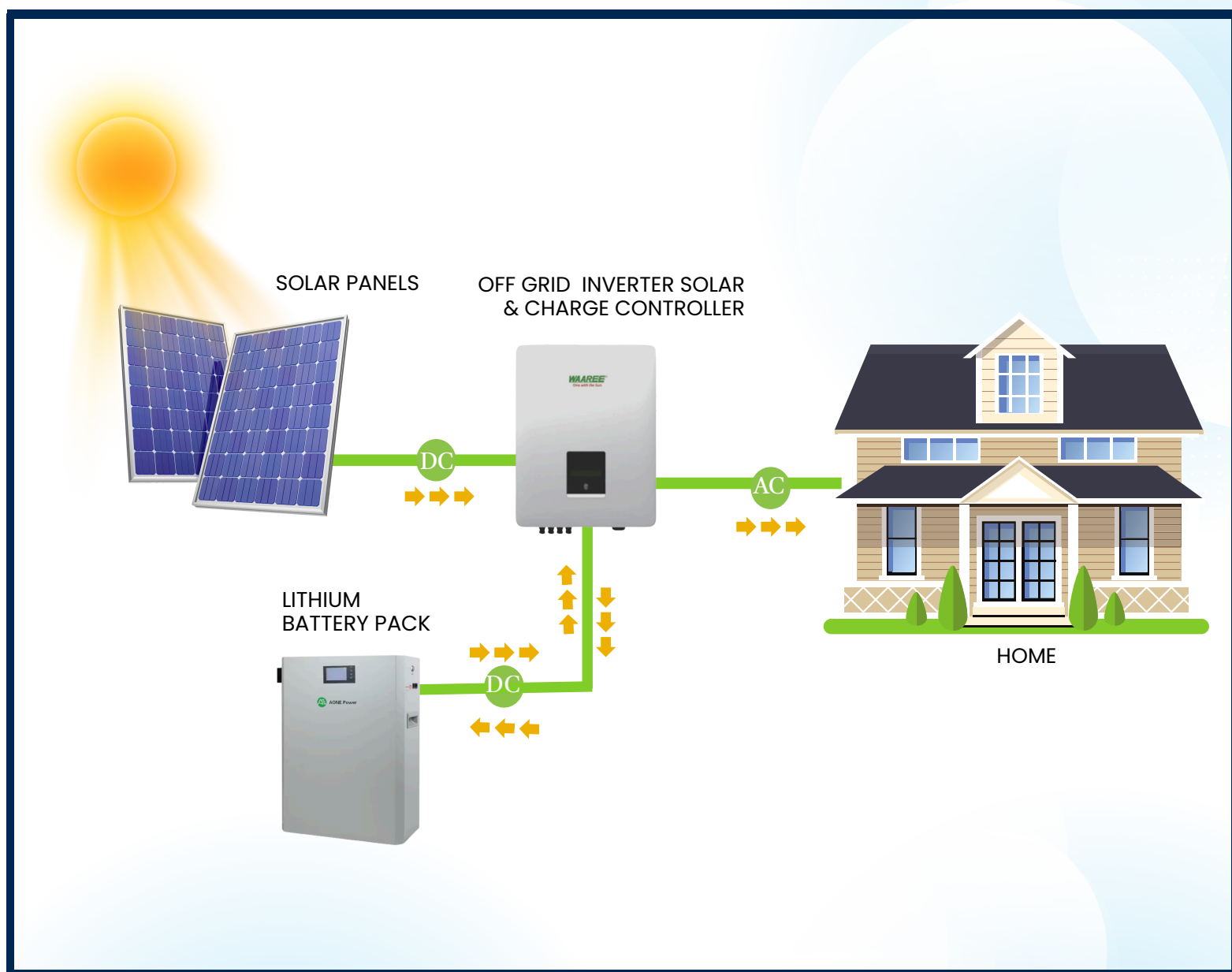


ON GRID SOLAR SYSTEM



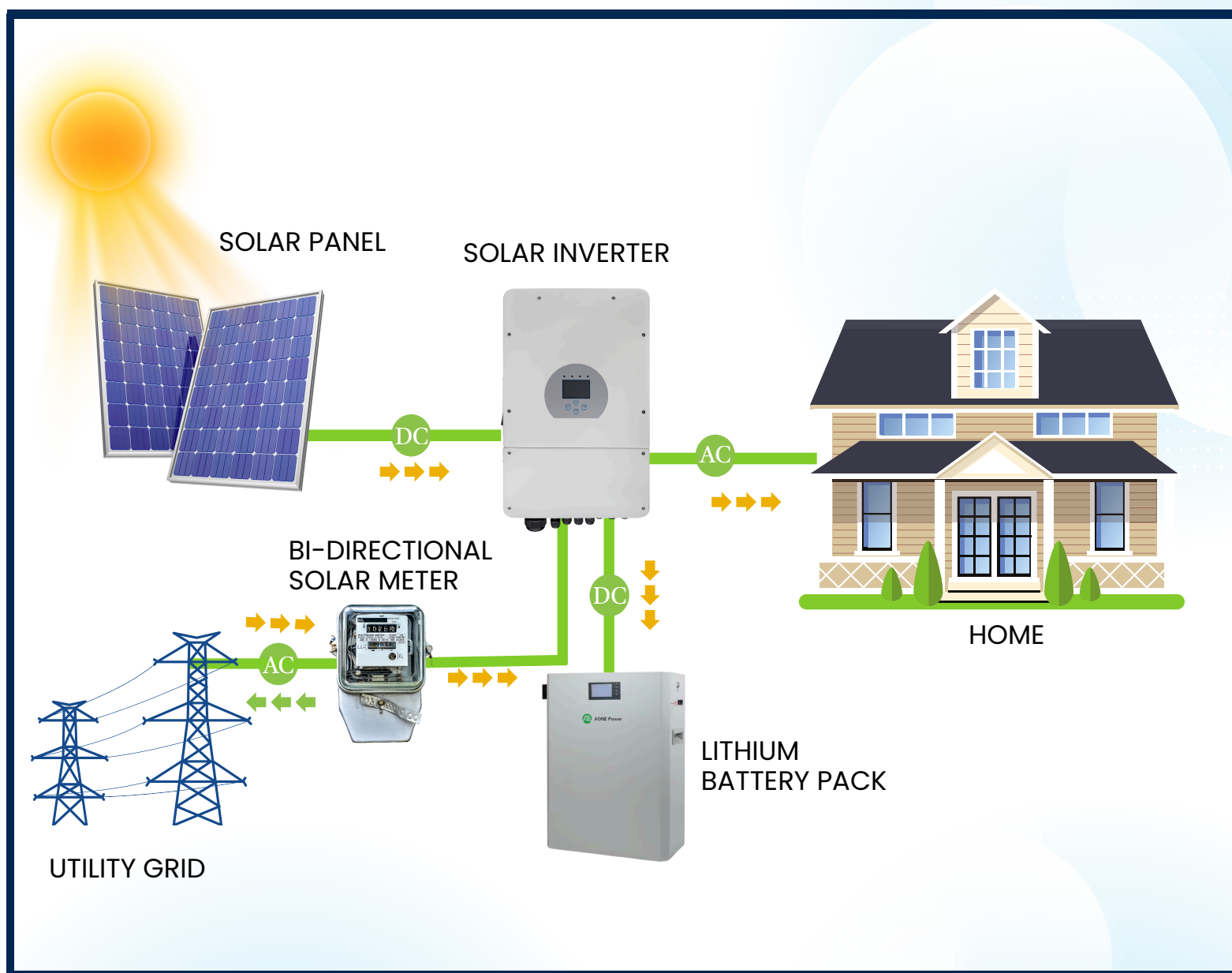


OFF GRID SOLAR SYSTEM





HYBRID SOLAR SYSTEM





Solar Energy in the Developing World

**Energy
Access**

**Cost-
Effective
Solutions**

**Improved
Living
Standards**



10



The Future of Solar Energy

The future of energy is solar-powered. With the world moving towards clean and sustainable solutions, solar energy is emerging as the fastest-growing renewable energy source. Falling technology costs, government support, and global climate goals are making solar the backbone of tomorrow's energy system.

Key Trends Shaping the Future of Solar:

- Affordable Technology – Solar panels are becoming more efficient and cheaper every year.
- Energy Storage Growth – Advanced batteries will allow 24/7 use of solar power.
- Smart Grids & AI Integration – Smarter energy management will optimize solar power usage.
- Green Hydrogen – Solar power will fuel hydrogen production, opening new clean energy markets.
- Urban Integration – Solar rooftops, facades, and even solar windows will power future cities.
- Job Creation & Economic Growth – Millions of new jobs will emerge in solar manufacturing, installation, and research.



Residential & Commercial and Industrial use





Solar Energy





HOME APPLIANCE ENERGY

Home Appliance Energy & Cost Table

Appliance	Power (W)	Hours/day	Days/month	Energy (kWh/month)	Estimated Cost (₹/month)
LED Light (10–12W)	12	5	30	1.8	14.4
Ceiling Fan	50	8	30	12	96
Refrigerator	150	8	30	36	288
Washing Machine	500	1	8	4	32
Microwave Oven	800	0.5	10	4	32
Water Geyser	2000	0.5	15	15	120
TV (LED/LCD)	100	4	30	12	96
Laptop/Computer	60	5	30	9	72
Air Conditioner	1500	6	20	180	1,440
Iron	1000	0.5	12	6	48

Step 1: How to Calculate Energy

Energy (kWh) = Power (W) × Hours/day × Days/month ÷ 1000

$$\text{Energy (kWh)} = \frac{\text{Power (W)} \times \text{Hours/day} \times \text{Days/month}}{1000}$$

Step 2: How to Calculate Cost

Cost (₹) = Energy (kWh) × Electricity Rate (₹/kWh)

$$\text{Cost (₹)} = \text{Energy (kWh)} \times \text{Electricity Rate (₹/kWh)}$$

Total Monthly Consumption (Example Household above):

1.8 + 12 + 36 + 4 + 4 + 15 + 12 + 9 + 180 + 6 = 279.8 kWh/month

$$1.8 + 12 + 36 + 4 + 4 + 15 + 12 + 9 + 180 + 6 = 279.8 \text{ kWh/month}$$

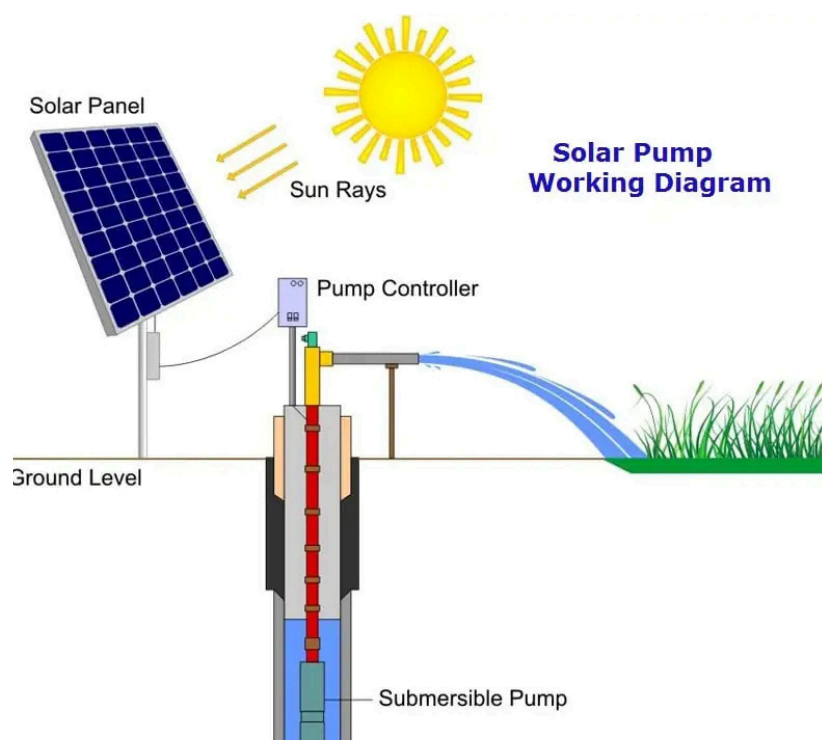
Total Estimated Cost:

279.8 × 8 ≈ ₹2,238

$$279.8 \times 8 \approx ₹2,238$$



SOLAR KIT



SOLAR WATER PUMP

SOLAR STREET LIGHT



SOLAR KIT





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Thank You For Your Attention



Call Us Now!

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