



BLUTH SOLAR

WHEN INNOVATION MEETS
SUSTAINABILITY

Commercial Catalogue



www.bluthsolar.com

ABOUT US



Bluth Solar represents the next generation of renewable energy—where engineering excellence meets intelligent technology. As a global EPC provider, we deliver bespoke solar solutions powered by AI, AR, and advanced analytics, enabling smarter energy production, seamless control, and superior efficiency across every application.

With roots in Switzerland and operations in India, we deliver scalable clean energy while driving inclusive growth—over half our workforce are women. Now expanding to the Middle East and Australia, we are building a future powered by innovation, sustainability, and impact.

BLUTH SOLAR

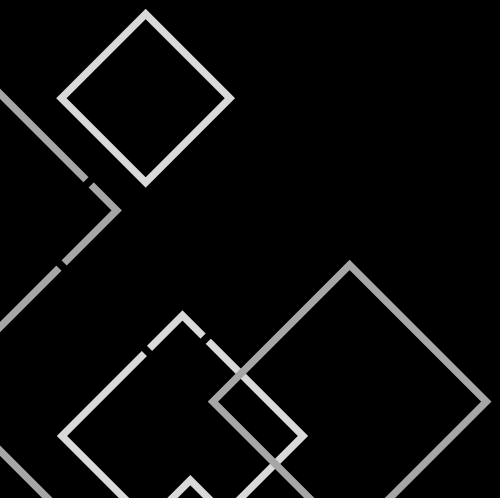
WHY TO CHOOSE US

At Bluth Solar, we combine European quality standards with deep expertise in the Indian renewable energy market to deliver reliable, customised solar solutions for homes, businesses, and large-scale industries. As an MNRE-approved national vendor, we provide end-to-end support including consultation, design, installation, subsidy assistance, financing options, and after-sales service. With premium technology, transparent pricing, and a commitment to maximum energy savings, Bluth Solar ensures every customer receives a smart, efficient, and future-ready clean energy solution.



EPC SERVICES

Bluth Solar is a trusted EPC (Engineering, Procurement & Construction) company delivering complete solar power solutions from concept to commissioning. We handle every stage of the project including system design, engineering, procurement of high-quality components, installation, testing, and maintenance. Our EPC expertise covers residential, commercial, industrial, and utility-scale solar projects ranging from 50 KW to 1,000 MW. With European quality standards, experienced technical teams, and advanced project management, we ensure high performance, safety, timely execution, and long-term reliability for every solar installation.



EPC SERVICES



Engineering

Site survey, shadow analysis, structural load assessment, single-line diagram, and energy yield simulation using PVsyst.



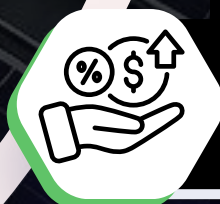
Procurement

Tier-1 panels, grid-tie/hybrid inverters, mounting structures, cables, DC-AC protection, and smart monitoring hardware.



Construction

Civil, structural, electrical installation by MNRE-certified teams with adherence to IS/IEC standards and safety norms.



Commissioning

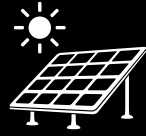
System testing, grid synchronisation, net metering application, utility approval, and client handover documentation.



O&M

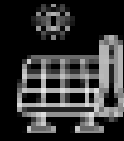
Comprehensive operations & maintenance: remote monitoring, preventive maintenance, cleaning, and performance reporting.

BLUTH SOLAR



Solar Modules

High-efficiency solar modules with top-tier reliability



Solar Thermal Solutions

Cutting-edge thermal solutions for efficient energy usage.



Energy Storage Solutions

Complete energy storage systems that optimize renewable energy usage.



Asset Management

Services designed to ensure the long term performance, reliability, and profitability of renewable energy assets



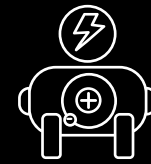
Inverters

Efficient and reliable on grid and off grid inverters for maximum energy conversion and remote energy needs.



Rooftop Solutions

Tailored rooftop solar installations for homes, businesses, and industries



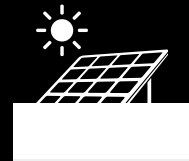
Green Hydrogen

Green hydrogen solutions for sustainable energy transitions.



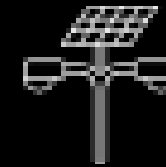
Ground Mount Solutions

Comprehensive, end-to-end engineering, procurement, and construction services for solar projects.



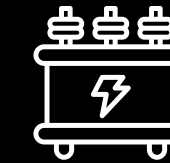
Floating Solar

Innovative floating solar solutions that maximize underutilized water spaces.



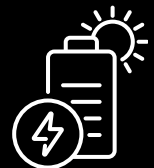
Water Pumps, Street Lights

Solar-powered water pumps and streetlights for sustainable utility services.



Transformers

We specialize in engineering global transformer solutions. Expertly designing, manufacturing and supplying transformers worldwide since 1979



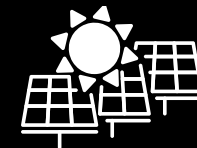
Lithium-Ion Batteries

Advanced energy storage systems for continuous energy availability.



Smart Meters

Smart Meters are advanced, precision-engineered devices designed to monitor, measure, and manage electrical energy consumption with high accuracy and reliability.



Module Mounting Structures

Durable and reliable structures for optimal panel placement and longevity.



VFD SYSTEM

VFD (Variable Frequency Drive) technology is used to control the speed and performance of electric motors by adjusting the frequency and voltage of the power supply. In solar systems, VFDs help motors and pumps run efficiently according to available solar power, improving energy savings, motor protection, and system performance.



Common Uses of VFD Technology

- Solar water pumping systems
- Agriculture irrigation pumps
- Industrial motors and machinery
- HVAC systems (fans & compressors)
- Conveyor belts and manufacturing units
- Borewell and submersible pumps
- Renewable energy applications

Benefits of VFD Technology

- Controls motor speed automatically
- Saves electricity and improves efficiency
- Provides soft start and reduces high starting current
- Protects motor from overload and voltage fluctuations
- Increases motor life and reduces maintenance
- Works efficiently with variable solar power
- Commonly used in solar water pumping systems and industrial applications

OUR PROJECTS

BS BLUTH SOLAR

ECONOMIC NEWS



Breaking News

Bluth Solar Accelerates India's Clean Energy Transition with a Solar Project in Rajasthan

Churu, Rajasthan: In a continued effort to accelerate the adoption of clean energy in India, Bluth Solar has successfully commissioned a 160 kW grid-connected solar power system in Churu, Rajasthan. This project marks another significant milestone in the company's mission to deliver scalable and cost-effective renewable energy solutions for industrial applications.

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60 KW SOLAR SYSTEM INSTALLATION

THEY TRUSTED US WITH THEIR DREAM. WE DELIVERED WITH PRECISION. – 60 KW SOLAR INSTALLATION, BEAWAR, RAJASTHAN

We are incredibly proud and humbled to share the successful completion of a 60 kW On-Grid Solar Power System installation at Shree Ram Hotel and Restaurant, Beawar, Rajasthan, India – a project that tested our team's technical expertise, precision, and commitment to delivering world-class solar energy solutions.

EVERY SOLAR INSTALLATION COMES WITH ITS OWN SET OF CHALLENGES. THIS ONE DEMANDED EXCEPTIONAL ENGINEERING AND ZERO ROOM FOR ERROR – AND WE DELIVERED.

High-Rise Solar Panel Installation at 21 Feet
Our team executed a high-rise solar panel installation at an elevation of 21 feet. Working at height requires not just technical skill but strict adherence to safety protocols. Every panel was mounted with precision, ensuring structural integrity, optimal wind resistance, and long-term durability. This is what separates a professional solar installer from the rest – we never cut corners, especially when safety is involved.



Premium aluminum grid structure – Apollo & Tata Steel

The entire mounting framework is built on a high-grade aluminum structure grid, engineered for maximum rigidity and long-term corrosion resistance. We exclusively use Apollo and Tata Steel structures – names that are synonymous with strength and reliability in the Indian market. The elevated mono rail is tilted at a precise 15 degrees, calculated to maximise solar irradiance capture throughout the year for the Beawar region's latitude. The mono rail system ensures robust support, minimal shading loss, and easy maintainability for years to come.

- Apollo Steel structure
- Tata Steel structure
- High-grade aluminum grid
- Supreme construction quality

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TOPCon bifacial solar panels –

We have installed premium TOPCon bifacial solar panels, engineered to capture sunlight from both the front and rear surfaces, thereby delivering significantly higher energy output compared to conventional monofacial modules. This advanced configuration ensures an average monthly energy generation of approximately 8,100 units, with production scaling up to 11,500 units during peak summer conditions.

Such performance levels enable the system to reliably meet the high and consistent energy demands of a commercial hotel and restaurant environment. TOPCon bifacial technology represents the benchmark for maximizing energy yield, efficiency, and long-term return on investment in high-capacity commercial solar installations.

Havells solar inverter – reliable power generation

For power conversion and grid integration, we have deployed a Havells solar inverter – a trusted brand in India's electrical industry known for its precision, efficiency, and robust after-sales support. The inverter ensures seamless on-grid synchronisation, real-time monitoring, and optimal energy conversion throughout the system's operational life, giving the client full visibility and control over their power generation.

60 kW
System Capacity

21 ft
High-Rise Height

15°
Mono Rail Tilt

6mm
DC Cable Grade

Industrial-grade safety standards

Safety is non-negotiable on every project we undertake. At this installation, we implemented a comprehensive industrial safety framework from ground to rooftop. This includes industrial grid earthing to prevent electrical faults and ensure safe discharge, full-body harness systems for all personnel working at height, and a rivet-based monorail system for a structurally secure and vibration-resistant mounting framework. Every element has been installed in compliance with industry safety codes, protecting both the installation team and the end user for decades to come.

Why This Project Matters to Us

A commercial establishment like a hotel and restaurant runs 24/7. Their electricity bills are enormous. By switching to a 60 kW on-grid solar energy system, Shree Ram Hotel & Restaurant will now significantly reduce their monthly electricity costs, lower their carbon footprint, and enjoy stable, clean energy for the next 25+ years.

This project is a testament to the trust our customer placed in us. That trust is not just a business transaction – it is a responsibility we hold with the utmost seriousness. When a client hands over a project of this scale, they are investing their money, their time, and their confidence in our team. We take that seriously. Every wire, every bolt, every panel is installed as if it were our own property.



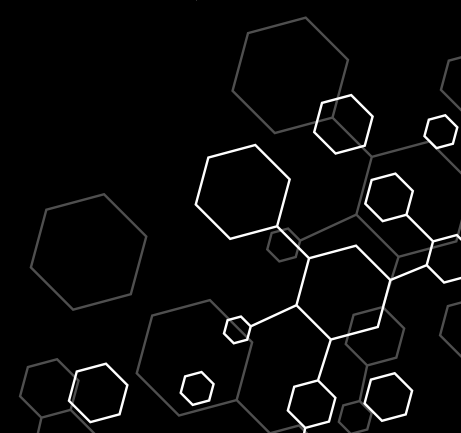


160 KW PROJECT

Bluth Solar successfully executed a 160 kW grid-connected solar power project in Churu, reinforcing its capability in delivering high-performance industrial solar solutions.

The project was designed to optimize energy generation under the region's high solar irradiance conditions, ensuring maximum efficiency and long-term reliability. Implemented with advanced engineering standards and precision installation, the system enables significant reduction in electricity costs while contributing to sustainable operations.

This installation stands as a strong example of Bluth Solar's expertise in executing scalable solar projects across Rajasthan, supporting businesses in transitioning towards clean and cost-effective energy.

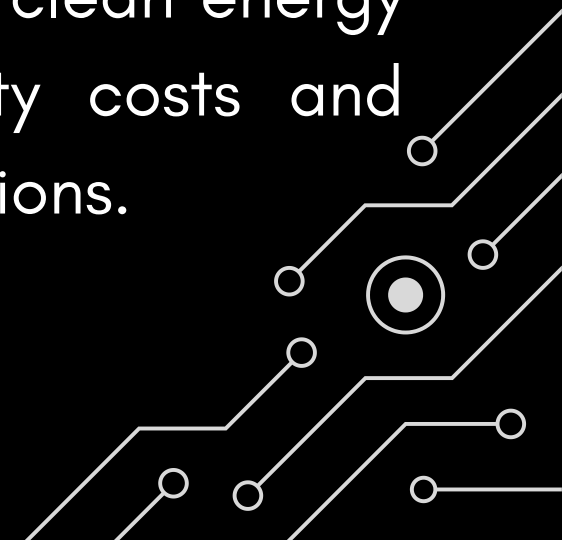


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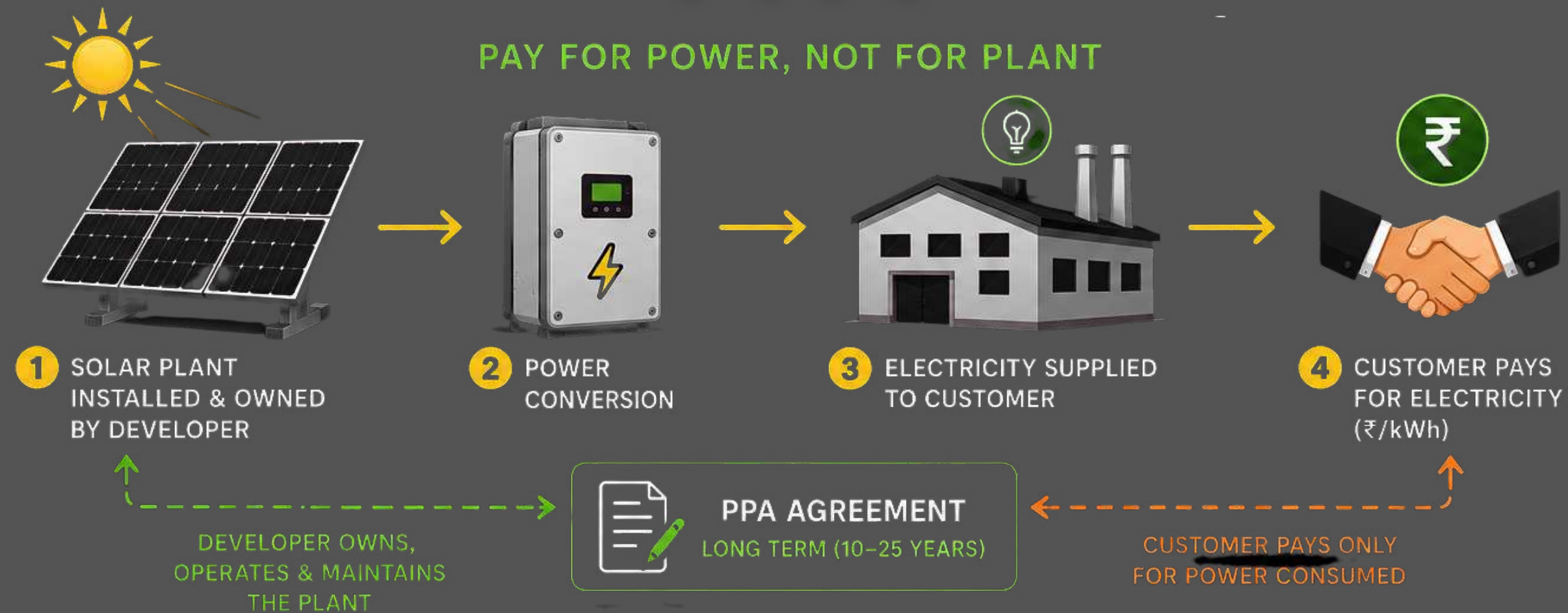


60 KW ON-GRID SOLAR SYSTEM

A 60 kW on-grid solar system was successfully installed at Shree Ram Hotel & Restaurant, Beawar, Rajasthan, featuring a 21 ft high-rise elevated structure with a 15° mono rail design for optimized solar generation. The project was executed using premium bifacial solar panels, Apollo & Tata Steel aluminum structures, Havells inverter technology, and 6mm DC cabling with industrial-grade earthing to ensure maximum efficiency, safety, and long-term durability. Designed for a 24/7 commercial operation, the system delivers reliable clean energy while significantly reducing electricity costs and supporting sustainable business operations.



PPA



It is a legal contract between a power producer (like a solar company or power plant owner) and a power buyer/customer.

In solar projects, a PPA allows customers to use solar electricity without purchasing the solar system upfront.

How it works:

- A solar company installs and maintains the solar plant.
- The customer uses the electricity generated.
- The customer pays only for the electricity consumed at a fixed rate (₹/kWh or unit) for a long-term period, usually 10-25 years.

| | | |
|--------------------|------------------------|--------------------------|
| ₹0 Upfront cost | 15-35% Bill savings | Low-Medium Risk level |
|--------------------|------------------------|--------------------------|

PPA

POWER PURCHASE AGREEMENT

BENEFITS OF PPA

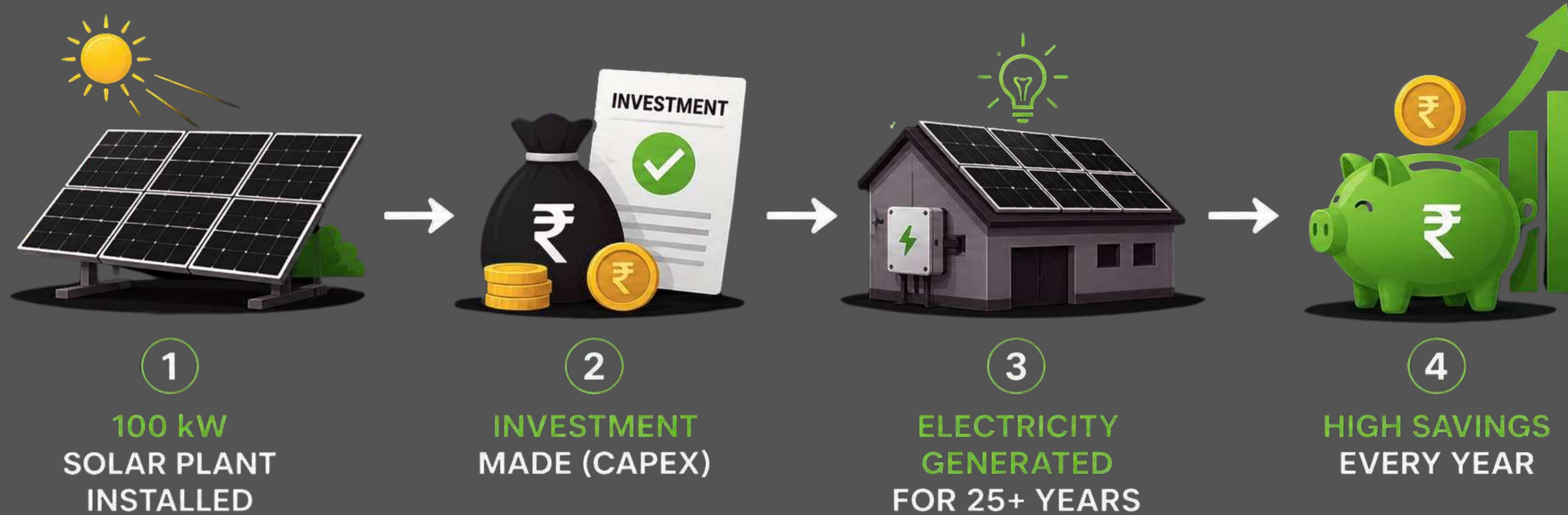
- NO INITIAL INVESTMENT REQUIRED
- LOWER ELECTRICITY BILLS
- FIXED POWER TARIFF FOR LONG-TERM SAVINGS
- OPERATION & MAINTENANCE HANDLED BY PROVIDER
- PROTECTION FROM RISING DISCOM ELECTRICITY RATES

USES OF PPA

- FACTORIES AND INDUSTRIES
- HOTELS AND HOSPITALS
- COMMERCIAL BUILDINGS AND MALLS
- WAREHOUSES AND INSTITUTIONS
- LARGE-SCALE SOLAR AND OPEN-ACCESS PROJECTS

ROI IMPROVES OVER TIME AS GRID TARIFFS RISE AND THE FIXED PPA RATE STAYS LOW. STRONG LONG-TERM HEDGE. NO DIRECT ASSET APPRECIATION, BUT CUMULATIVE SAVINGS ARE SIGNIFICANT OVER A 20-YEAR HORIZON.

CAPEX



CAPEX (Capital Expenditure) is a solar business model where the customer purchases the complete solar system by investing upfront money. The customer becomes the owner of the solar plant and receives all the benefits, savings, and subsidies.

In a CAPEX model, the solar EPC company designs, installs, and commissions the solar system, while the customer handles ownership and enjoys free solar power generation for 25+ years.

Benefits of CAPEX

- Maximum electricity bill savings
- Full ownership of the solar plant
- Eligible for government subsidies (residential projects)
- Higher long-term return on investment (ROI)
- Faster payback period
- Asset value addition to property/business

Uses of CAPEX

- Residential homes
- Commercial buildings
- Factories and industries
- Schools, hospitals, and hotels
- Institutions with long-term energy consumption

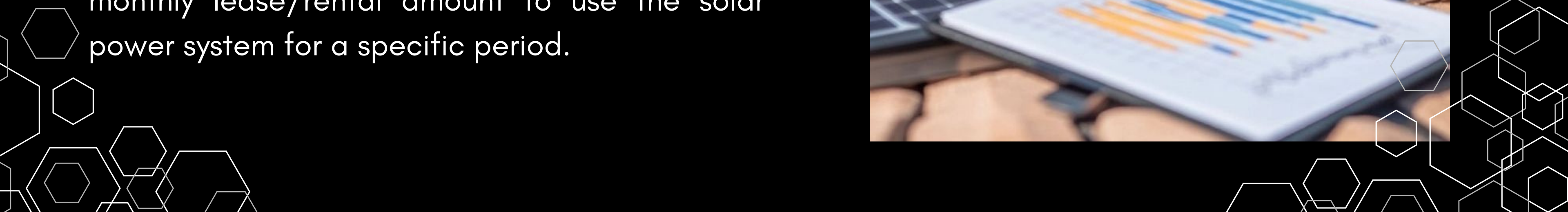
Working Process

- Solar Plant Installed
- Customer Makes Upfront Investment
- Solar System Generates Electricity
- Power Used at Site
- Electricity Bills Reduced
- Long-Term Savings & Full Ownership



Solar Leasing

Solar Leasing is a financing model where the customer uses a solar system without purchasing it upfront. The solar company installs and owns the system, while the customer pays a fixed monthly lease/rental amount to use the solar power system for a specific period.



Benefits of Solar Leasing

- No upfront investment
- Lower electricity bills
- Fixed monthly payment
- Maintenance handled by provider
- Easy adoption of solar energy
- Reduced operational cost

Uses of Solar Leasing

- Commercial buildings
- Factories & industries
- Offices & warehouses
- Schools & hospitals
- Businesses with limited capital investment

Working Process

- Solar System Installed by Provider
- Customer Uses Solar Power
- Monthly Lease Payment Made
- Maintenance Managed by Provider
- Savings on Electricity Bills
- Agreement Ends After Fixed Duration

Smart Accessories for Modern Solar Installations



Temperature Sensor

Used to monitor the temperature of solar panels and electrical systems to prevent overheating and improve safety and performance.



Fiber Walkway Path

Provides a safe walking path on solar rooftops for maintenance teams without damaging solar panels or roof sheets.



Safety Harness Ropes

Essential safety equipment used to protect workers from falls during rooftop solar installation and maintenance work.



Silicon Glue for Waterproofing

Used for sealing gaps and joints to prevent water leakage and improve rooftop waterproof protection around solar structures.



Cable Tray

Supports and organizes electrical cables properly, ensuring safe cable routing and easier maintenance in solar projects.



Speed Detector

A Wind Speed Detector for Wind Turbine is a device used to measure the speed and direction of wind so the wind turbine can operate safely and efficiently.

GET IN TOUCH WITH US

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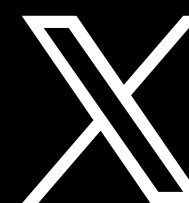
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