

BS



BLUTH SOLAR Product Catalogue



www.bluthsolar.com
www.shopbluth.com

CONTACT US
Toll-Free: 011-4117-0281
WhatsApp +91 92860 52880



Welcome to Bluth Solar Powering a Greener Tomorrow

Bluth Solar delivers European-standard solar and hybrid energy systems engineered for long-term performance, sustainability, and intelligent energy management

Our team of experts will help you save money on energy bills while reducing your carbon footprint. Contact us today to explore customized solar solutions for your home or business.

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 all applications.

With roots in Switzerland and operations in India, we deliver scalable clean energy while driving inclusive growth — more than half of our workforce is women.

We are now expanding into the Middle East and Australia, we are building a future powered by innovation, sustainability, and impact.



OUR FOUNDERS



Om Tekriwal
CEO

Leverages deep-tech expertise in autonomous devices to build scalable, IoT-enabled solar infrastructure for multinational markets

ESIEE Paris & ESYCOM Research background with mastery in Nanotechnology and MEMS.

Arpita Upadhyay
CFO



She brings an investor mindset to build a scalable, tech-enabled finance and legal foundation
Big 4 background with global experience across US, UK, Europe, and India. Builds scalable, well-governed finance foundations.



Diverse Community



Open Leadership



Innovative minds

At Bluth Solar, we believe innovation grows with people. Our diverse team drives renewable energy innovation while creating meaningful opportunities. We build sustainable solutions while empowering communities.

Our Products in Depth - What Nobody Else Offers



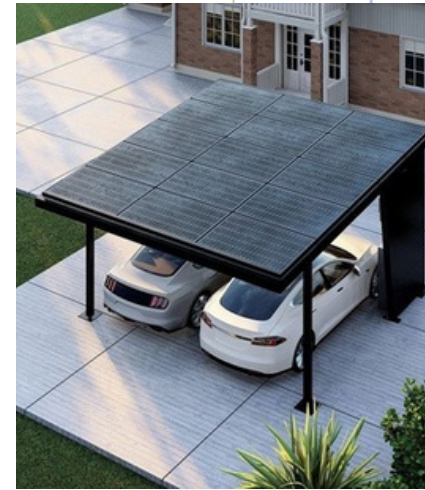
Smart Battery Storage

Smart battery storage systems optimize energy usage by storing excess solar power for later use. With intelligent management, they decide when to store, use, or export energy, ensuring uninterrupted power supply and maximizing savings.



Solar + Wind Turbine Hybrid

A hybrid solar and wind system ensures continuous power generation by combining two renewable sources. While solar panels generate energy during the day, wind turbines produce power even at night or during cloudy conditions, resulting in higher reliability and consistent energy output.



Solar Carports

Solar carports are innovative structures that combine vehicle protection with solar power generation. They offer shaded parking while utilizing the overhead space to generate electricity, making them perfect for homes, offices, and commercial parking areas.



Solar Canopy (Solar Canvas)

Solar canopies integrate energy generation with modern outdoor design, providing shade while producing clean electricity. Ideal for patios, gardens, and commercial spaces, they enhance aesthetics while turning unused spaces into energy-generating assets.

RESIDENTIAL SOLAR



Wind Turbine

Wind Turbine for Homes

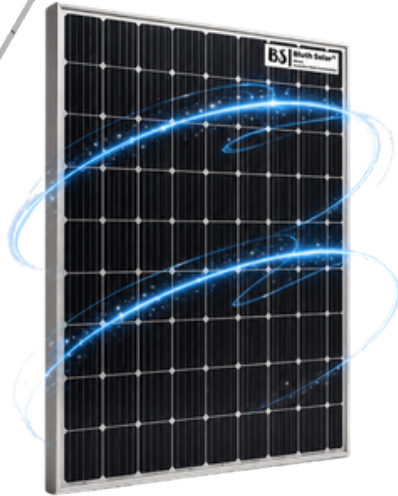
Small-scale wind turbines for homes provide an efficient way to generate clean electricity, especially in areas with consistent wind flow. They can work independently or alongside solar systems to ensure power generation even at night or during cloudy weather, improving energy reliability and reducing dependence on the grid.



Solar systems

Solar systems are available in three types—on-grid, off-grid, and hybrid. On-grid systems connect to the utility grid and allow net metering, reducing electricity bills without batteries. Off-grid systems work independently using battery storage, ideal for areas without reliable power. Hybrid systems combine the advantages of both technologies, offering grid connectivity with battery backup for uninterrupted energy and better savings.

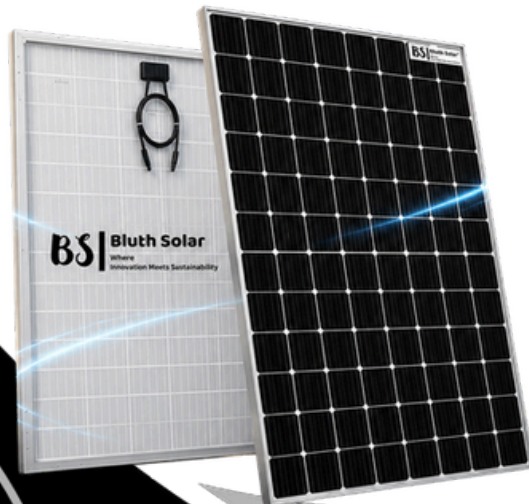
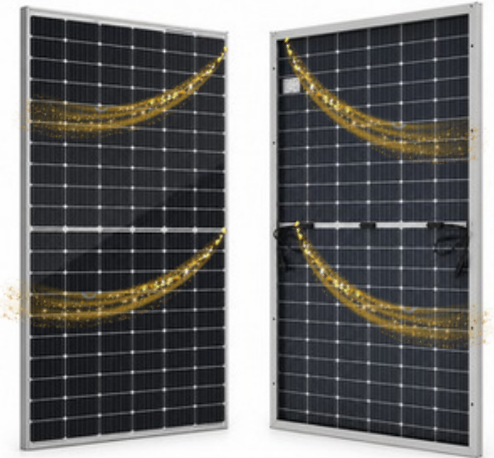
Solar Panel Technologies



Mono PERC Bifacial High-efficiency mono PERC technology with dual-side energy generation, delivering reliable performance and improved yield in real-world conditions.

Bifacial Solar Panel

Captures sunlight from both front and rear sides, increasing total energy generation and maximizing return on investment.

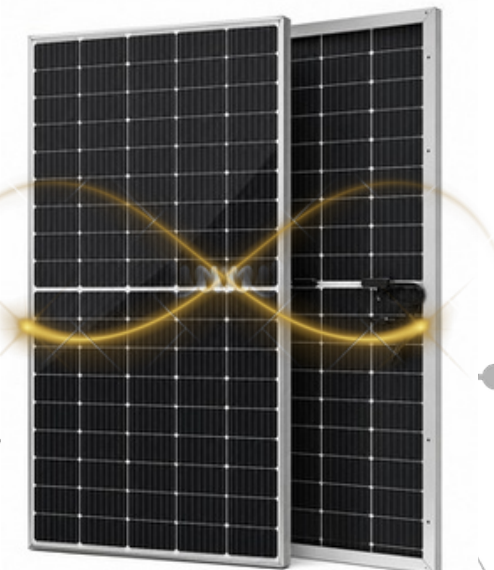


TOPCon Bifacial

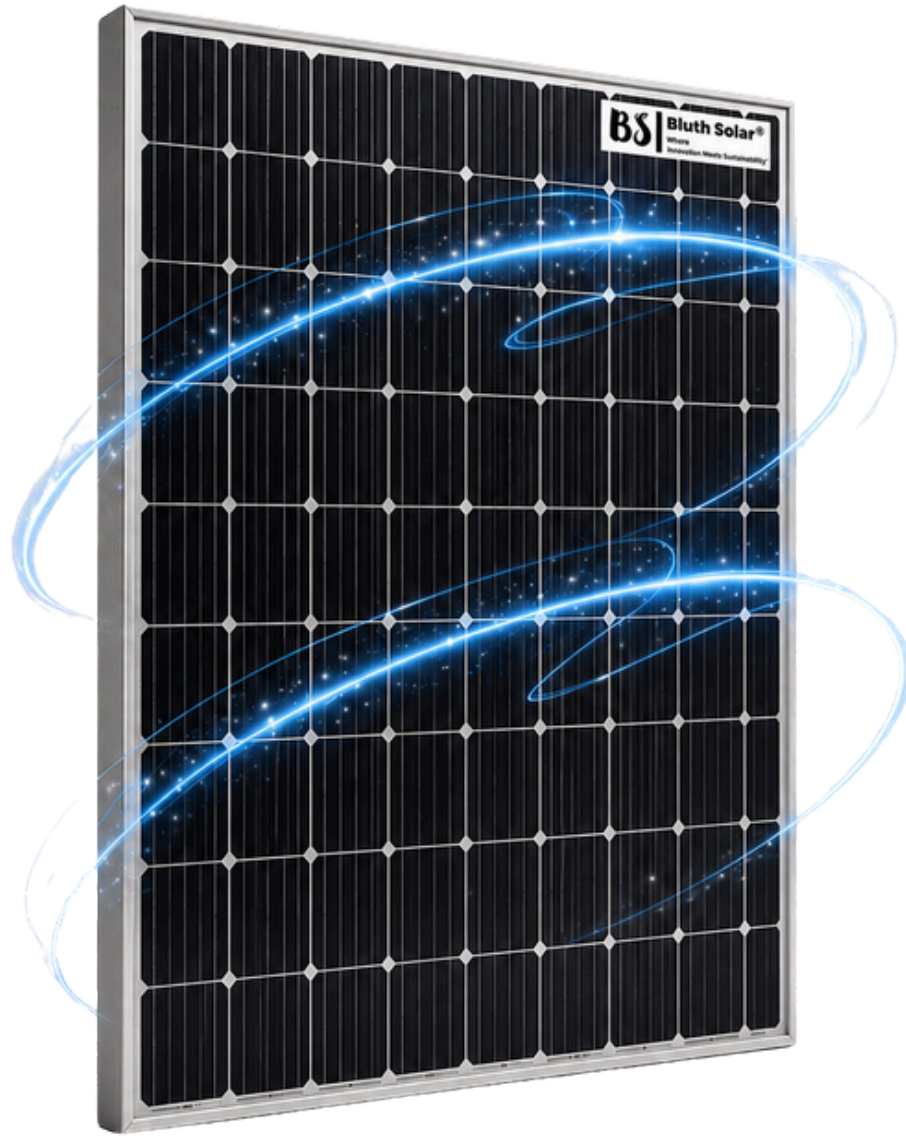
Next-generation TOPCon cells with bifacial design offer superior efficiency, lower degradation, and enhanced long-term energy output.

HJT Solar Panel

Advanced heterojunction technology combining high efficiency, excellent temperature performance, and ultra-low degradation for premium energy output.



Monoperc Bifacial



Electrical Characteristics

STC	SNS144CM550Wp-SNS144CM570Wp
Maximum Power at STC (Pmax)	550W
Optimum Operating Voltage (Vmp)	42.05V
Optimum Operating Current (Imp)	13.08A
Open Circuit Voltage (Voc)	49.88V
Short Circuit Current (Isc)	14.11A
Module Efficiency	21.29%
Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	30 A
Power Tolerance	Positive

STC: Irradiance 1000 W/m, module temperature 25 °C, AM=1.5; The tolerance of Pmax is within ±3% ;

NMO

Maximum Power at NMOT (Pmax)	408W
Optimum Operating Voltage (Vmp)	39.74V
Optimum Operating Current (Imp)	10.27A
Open Circuit Voltage (Voc)	47.09V
Short Circuit Current (Isc)	11.08A

NMOT: Irradiance 800 W/m, ambient temperature of 20 °C, AM=1.5, wind speed 1 m/s.

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax Temperature	-0.320%/°C
Coefficient of Voc Temperature Coefficient of Isc	-0.260%/°C
	0.046%/°C

Mechanical Characteristics

Solar Cell	91 mm × 182 mm
No. of Cells	144 (6 × 24)
Dimensions	2278 × 1134 × 35 mm
Weight	30 kg
Front Glass	3.2 mm fully tempered glass
Frame Junction	Anodized aluminium alloy IP68
Box Output	rated
Cables	4.0 mm ²
Connectors	Mc4

TOPCon Bifacial

Electrical Characteristics

STC	SNS144CMT580Wp-SNS144CMT620Wp
Maximum Power at STC (Pmax)	600W
Optimum Operating Voltage (Vmp)	44.28V
Optimum Operating Current (Imp)	13.57A
Open Circuit Voltage (Voc)	51.55V
Short Circuit Current (Isc)	14.14A
Module Efficiency	23.22%
Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	30 A
Power Tolerance	Positive

STC: Irradiance 1000 W/m², module temperature 25 °C, AM1.5,
Tolerance of Pmax is within +/- 3%.

NMOT

Maximum Power at NMOT (Pmax)	448W
Optimum Operating Voltage (Vmp)	41.89V
Optimum Operating Current (Imp)	10.64A
Open Circuit Voltage (Voc)	48.71V
Short Circuit Current (Isc)	11.10A

NMOT: Irradiance 800 W/m², ambient temperature 25 °C, AM1.5, wind speed 1 m/s.

MODEL

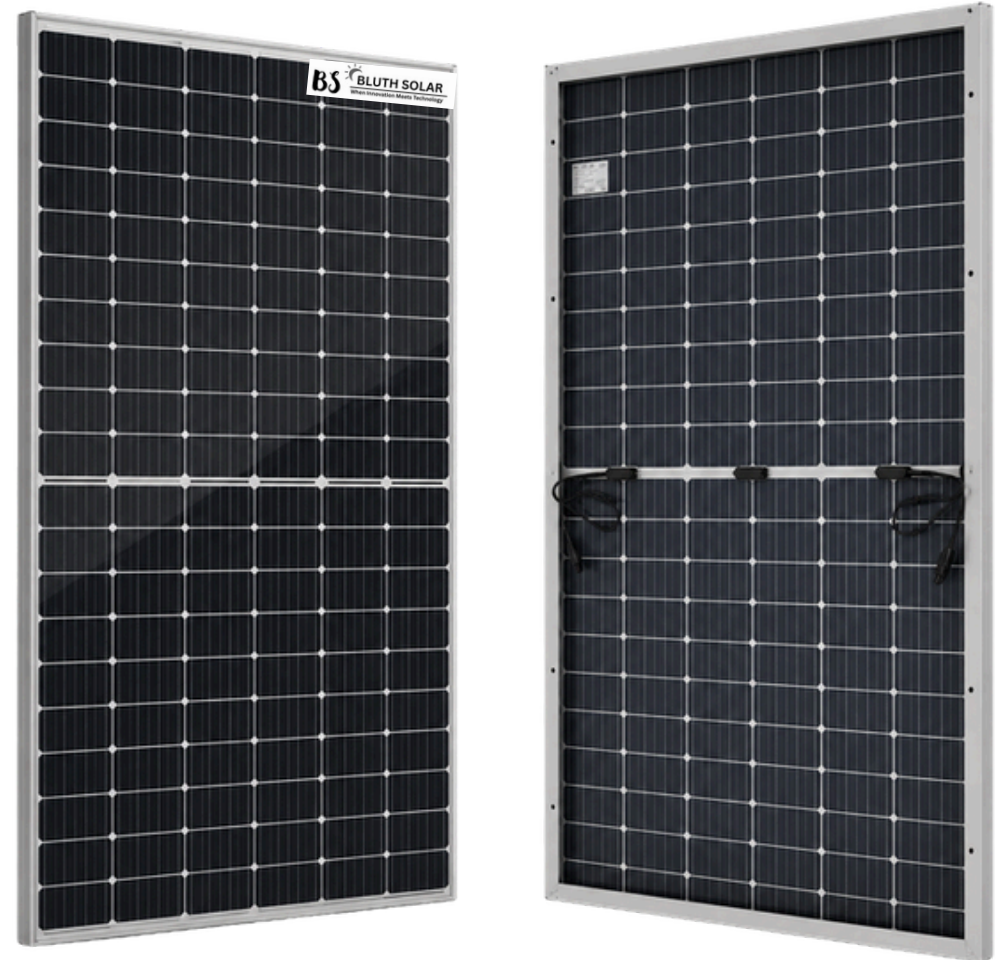
600W	
10% BIFACIAL GAIN	660.0W
20% BIFACIAL GAIN	720.0W
30% BIFACIAL GAIN	780.0W

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	
Temperature Coefficient of Pmax	
Temperature Coefficient of Voc	
Temperature Coefficient of Isc	

Mechanical Characteristics

Solar Cell	91mmx182 mm
No. of Cells	144 (6 × 24)
Dimensions	2278 × 1134 × 35 mm
Weight	30.00 kgs
Front Glass	3.2 mm fully tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated
Output Cables	4.0 mm ²
Connectors	Mc4



INVERTER

The Havells solar inverter is engineered to deliver reliable, high-efficiency performance for modern solar systems. With advanced MPPT technology, it maximizes energy harvest even under partial shading and variable conditions. Its robust design ensures stable operation across diverse grid environments, making it highly suitable for diverse Indian operating conditions. Built for durability, safety, and intelligent power management, it provides consistent output and long-term value for residential and commercial solar projects.

MAXIMUM OUTPUT FROM EVERY RAY

- High Efficiency up to 98.4%**
Convert more sunlight into usable power
- Dual MPPT Architecture**
Optimized performance even under shading
- 1.5x DC Overloading per MPPT**
Connect higher PV capacity confidently

enviroGTi
HAVELLS

RUN
FAULT

POWER YOUR HOME. SAVE THE FUTURE.

Clean Energy | Smart Savings | Energy Independence



ON-GRID SOLAR

An on-grid solar system is directly connected to the utility grid, allowing solar panels to generate electricity during the day and supply it to your home or business in real time. Any excess energy produced is exported to the grid through net metering, reducing electricity bills, while additional power can be drawn from the grid when solar generation is low. With no need for battery storage, this system offers a cost-effective and low-maintenance solution that maximizes return on investment. and ensuring efficient energy usage.



BLUTH SOLAR ON-GRID KIT WITH HAVELLS INVERTER – DCR MODULE FOR HOME USE



SINGLE PHASE

System Range	No. of Solar Panel
2.2 KW	4 Pcs Of 550 W Panels
3.3 KW	6 Pcs Of 550 W Panels
4.4 KW	8 Pcs Of 550 W Panels
5 KW	9 Pcs Of 550 W Panels
5.5 KW	10 Pcs Of 550 W Panels
6 KW	12 Pcs Of 550W Panels

Key Benefits

- Save up to 90% on electricity bills
- Long system life with minimal maintenance The system supports net metering (subject to local regulations)
- Environment-friendly solar energy solution
- Trusted components from Havells and Bluth Solar

BLUTH SOLAR COMPLETE ON-GRID KIT



WARRANTY
10
YEAR



Solar Panel

- Types: Monocrystalline / Polycrystalline / Bifacial
- Converts sunlight into DC electricity

Inverter (Havells)

- Converts DC to AC power
- Compatible with brands like Growatt, Sungrow, Huawei

ACDB / DCDB

- Includes DC/AC MCB and Surge Protection Device (SPD)
- Protects the system between the solar panels and the inverter.

Earthing Kit

- Chemical or pipe earthing
- Ensures safety from electrical faults

OFF-GRID SOLAR POWER SYSTEM FOR COMMERCIAL USE

Complete energy independence. Reliable. Sustainable. Cost-effective.



OFF - GRID SOLAR SYSTEM

An off-grid solar system is a fully independent power solution that operates without any connection to the utility grid. It uses solar panels to generate electricity, which is stored in batteries for use during nighttime or low-sunlight conditions.. A charge controller regulates power flow, while an inverter converts stored DC energy into usable AC power for appliances. Ideal for remote locations or areas with unreliable electricity, off-grid systems provide complete energy independence, uninterrupted power supply, and long-term cost savings.



Bluth Solar Off - Grid Solar Kit



System Range	No. of Solar Panel
2.2 KW	4 Pcs Of 550w Panels
3.3 KW	6 Pcs Of 550w Panels
4.4 KW	8 Pcs Of 550w Panels
5 KW	9 Pcs Of 550w Panels
5.5 KW	10 Pcs Of 550w Panels
6 KW	12 Pcs Of 550w Panels

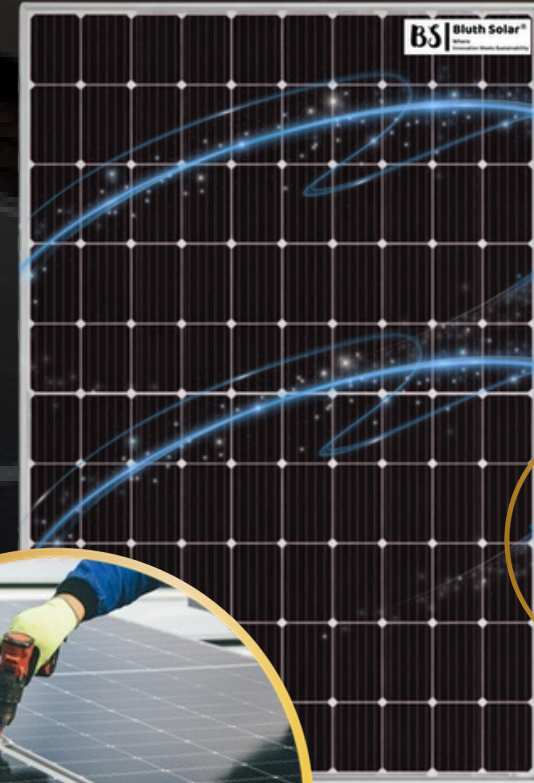
Key Features & Benefits:

- **System Type:** Off-Grid Solar Power System
- **Controller Type:** PWM (Pulse Width Modulation)
- **Application:** Residential and home use
- **Reliable Backup:** Continuous power during grid outages Cost-
- **Effective Solution:** Ideal entry-level solar system for homes Safe
- **Operation:** Overload, short-circuit & battery protection Simple
- **Installation:** Easy to operate and maintain
- **Low Maintenance:** Designed for daily household use Eco-Friendly:
- **Clean and renewable energy solution**

Bluth Solar Off-Grid Solar Kit

What's Included (Complete Home Solar Kit)

- High-efficiency solar panel (capacity as per selection)
- Havells PWM Off-Grid Inverter
- Compatible tubular/SMF battery (as per load requirement)
- DC & AC solar cables
- MC4 connectors
- Earthing kit for electrical safety
- Junction box and standard mounting accessories
- User manuals and basic system documentation



HYBRID GRID SOLAR POWER PLANT

Smart energy today, sustainable tomorrow.



HYBRID GRID SOLAR SYSTEM



A hybrid grid solar system combines the benefits of both on-grid and off-grid systems by integrating solar panels, battery storage, and the utility grid into one intelligent setup. It generates electricity from solar energy, stores excess power in batteries for backup, and seamlessly draws from or exports to the grid when needed. This system ensures a continuous power supply during outages while maximizing energy savings and operational efficiency.. Ideal for residential and commercial applications, hybrid systems offer reliability, flexibility, and optimized energy management.

Bluth Solar Hybrid Grid Solar System



What's Included (Complete Solar Kit):

- 600W TOPCon Non-DCR Solar Module
- Havells MPPT Off-Grid Inverter
- Compatible tubular battery / lithium battery (as per selection)
- DC & AC solar cables
- MC4 connectors
- Earthing kit for system safety
- Junction box and mounting accessories
- Installation & user documentation

System Range	PHASE
3.5 KW	Single phase
5.7 KW	Three phase
10.2 KW	Three phase

Bluth Solar Hybrid Grid Solar System

Key Features & Benefits:

- Capacity: 600 W Off-Grid System
- Module Technology: Advanced TOPCon (High Efficiency, Low Degradation)
- Controller Type: MPPT (Maximum Power Point Tracking)
- Application: Residential / Home Use
- Higher Energy Output: Improved performance in low-light and high temperatures
- Fast Battery Charging: MPPT increases charging efficiency by up to 20–30% vs PWM
- Reliable Power Backup: Ideal for areas with frequent power cuts
- Durable & Weather-Resistant: Designed for Indian climatic conditions
- Low Maintenance: Long operational life with minimal servicing
- Eco-Friendly: Clean, renewable energy solution



COMMERCIAL SOLAR



WIND TURBINE

Commercial wind turbines provide a reliable and scalable source of clean energy for businesses, helping reduce electricity costs and dependence on conventional power. Designed for efficient, long-term performance, they generate consistent energy in suitable wind conditions and support strong sustainability goals with attractive returns.



SOLAR PANEL

Commercial solar panels help businesses generate their own electricity, reducing energy costs and grid dependence. They deliver long-term savings, stable pricing, and improved sustainability with strong returns on investment.



WIND TURBINE + SOLAR PANEL

A commercial solar and wind hybrid system ensures continuous power by combining daytime solar generation with round-the-clock wind energy. It reduces electricity costs, increases reliability, and provides a sustainable, grid-independent energy solution for businesses.

COMMERCIAL SOLAR PROJECTS

160 KW SOLAR SYSTEM IN CHURU, RAJASTHAN



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.

www.bluthsolar.com [READ MORE](#)

60 KW SOLAR SYSTEM IN BEAWAR, RAJASTHAN

BLUTH SOLAR | 2026

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

Solar Panel Cleaning Services



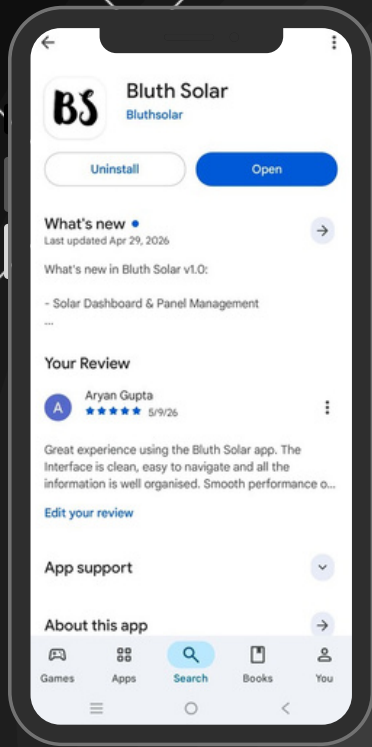
"Bluth Solar offers professional solar panel cleaning services using dust and water-repellent solutions. Our expertise ensures maximum efficiency, improved energy generation, and a longer lifespan for your solar panels."



BOOK NOW



BLUTH SOLAR APP

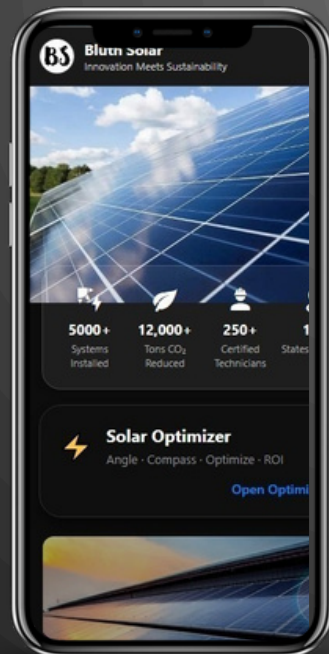


Smart App Features

- Tilt Angle Optimization
- ROI Calculator
- Solar Compass Alignment
- Panel Angle Adjustment
- Real-Time Monitoring
- Remote System Control
- Performance Analytics
- Maintenance Alerts



Download Now



Real-Time
Performance
Monitoring



Automated
Energy
Optimization



Automated
Cleaning



Connected
Load
Management



Improve
overall system
efficiency

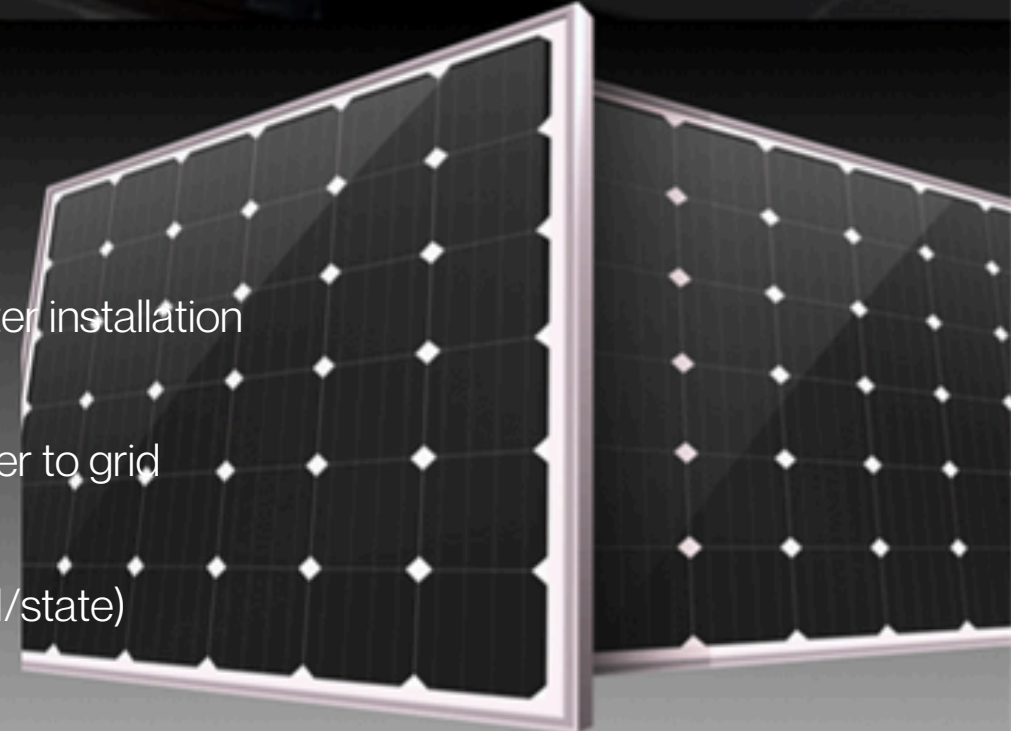


Automated
Solar Panel
Cooling



PM Surya Ghar Yojana (PM Surya Ghar: Muft Bijli Yojana)

BENEFITS

- PM Surya Ghar Muft Bijli Yojana subsidy: up to ₹78,000
 - Direct Benefit Transfer (DBT):
Subsidy credited directly to homeowner's bank account after installation
 - Net Metering Benefit (Operational):
Not cash subsidy, but bill savings by exporting excess power to grid
 - State-Level Top-Up (in some states):
Additional subsidy over central scheme (varies by DISCOM/state)
- 

10000+
HAPPY
CUSTOMERS



OUR PRESENCE

A 3D map of Europe and India is shown against a dark background. The map is rendered in a light, textured style. Three red location pins are placed on the map: one in France, one in Switzerland, and four in India. Dashed white lines connect these pins to circular callout boxes containing office address information. The callout boxes are black with white text. The overall aesthetic is professional and modern.

INDIA

Noida, Uttar Pradesh
Bluth Solar, 919/T4 Assotech
Business, Cresterra, Sector
135, Noida, Uttar Pradesh -
201304

FRANCE

9, Rue de la
Fraternité,
Goussainville,

SWITZERLAND

Sellenbüren, 12
Stallikon, Zürich
8143, CH

Head Office Addresses

GET IN TOUCH WITH US



Toll-Free: 011-4117-0281
WhatsApp +91 92860 52880



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BLUTH SOLAR

When Innovation Meets Sustainability

