



Redefining Power for the Future

Solar + Energy Storage

Certified: UL1973, UL9540A, UN38.3, IEC62619

Empowering Solutions
with



Surin International Pvt Ltd.

An ISO 9001:2015 & Duns-certified Company

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About Us

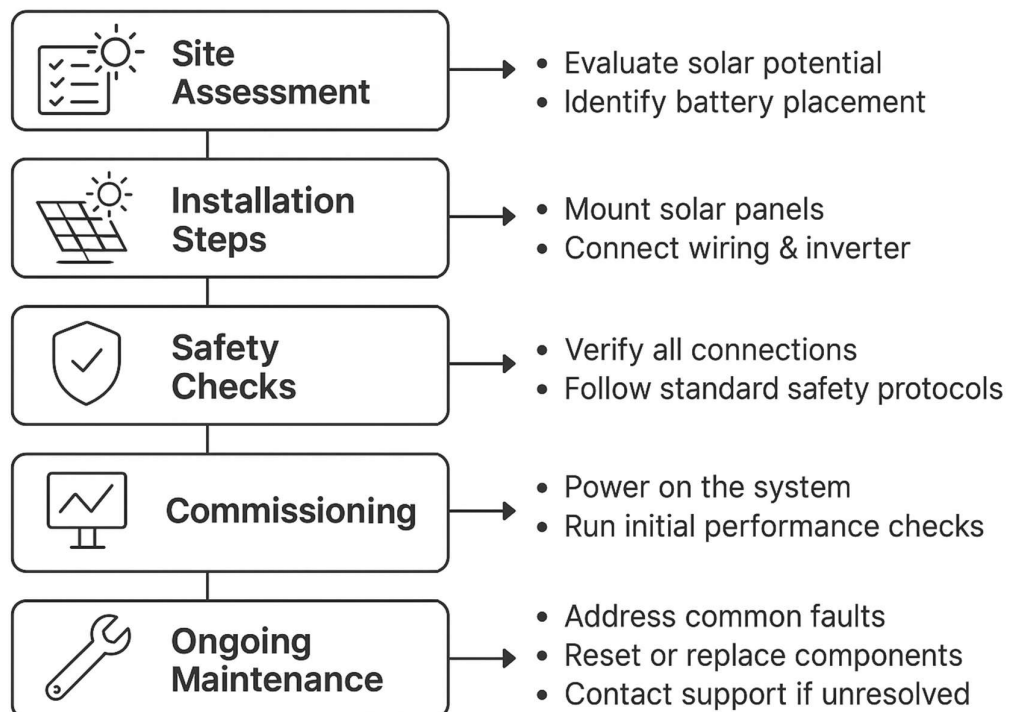
Surin International Pvt. Ltd., established in 2013, is an ISO 9001:2015 and DUNS-certified company committed to delivering intelligent engineering and energy solutions. As the **official partner and distributor of CLN Energy**, Surin brings advanced Lithium-ion based Energy Storage Systems (ESS) to the Indian market—serving residential, commercial, and industrial needs.

With a decade of experience in IoT, refrigeration, and power technologies, Surin has developed deep expertise in energy management. Today, Surin is a one-stop solution provider for **state-of-the-art Solar and Battery Energy Storage Systems**, delivering integrated, future-ready energy solutions across India.

Our ESS solutions, powered by **CLN's globally recognized technology**, are designed for peak load management, backup power, and EV charging infrastructure—offering reliability, modularity, and remote monitoring through intelligent Battery Management Systems (BMS).

Surin continues to empower industries to transition towards clean, connected, and future-ready energy systems.

Installation & Operation Basics



Residential, Commercial & Industrial Energy Storage Solutions



Inverter Battery
Wall Mount (5kWh)



Stackable BESS
(10kWh – 80kWh)



PowerEco
250kW/522kWh

Upto ~60% Operational Cost Savings



Key Features

- 5+ Years Warranty
- Operating Temp: -30°C to 55°C
- Fire Protection: Heptafluoropropane / Aerosol
- Communication: RS485 / Ethernet / CAN
- Cooling: Air / Liquid Cooling (as per model)
- Powers Everything – From Lights, ACs to Industrial Machines
- Remote Monitoring via App
- Certified: UL1973, UL9540A, UN38.3, IEC62619



Benefits

- Zero Downtime Power for Critical Loads
- Supports Green Energy Goals & Reduces Carbon Footprint
- Noise < 65 dB
- Load Shifting & Demand Charge Reduction
- Seamless Solar + Grid + Battery Integration

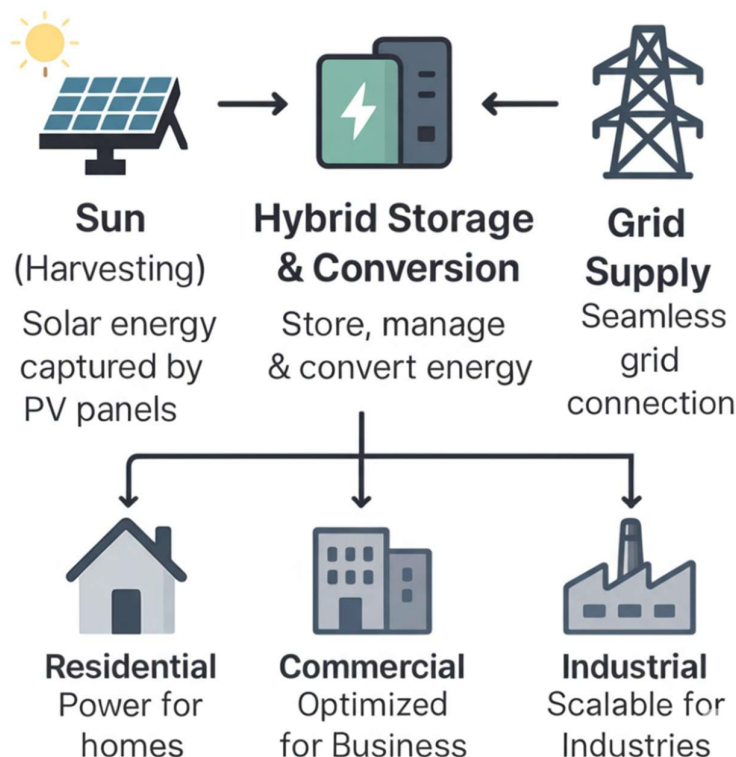
Residential, Commercial & Industrial Solar Solutions

Key Features:

- **24/7 Power Availability:** Solar during the day, BESS for the night or grid outages.
- **Maximized Solar Utilization:** Store excess solar energy and reduce export dependency.
- **Peak Load Management:** Shift energy consumption and reduce demand charges.
- **Zero Downtime for Critical Loads:** Reliable backup for sensitive equipment and operations.
- **Smart Energy Management:** Integrated EMS for automated dispatch and real-time monitoring.
- **Scalable for Future Needs:** Modular solutions for expanding energy requirements.



How it Works



Solar Reefer Containers

Next-generation **solar-powered reefer containers** for reliable, eco-friendly temperature-controlled transport and storage.

Key Features:

- Hybrid Power: **Grid + Solar + BESS**
- **24 hrs continuous power supply**
- Cooling Range: **-20°C to +10°C**
- Designed for high performance in **ambient temperature up to 47°C**
- Remote IoT-based monitoring (temperature, humidity, energy)
- Plug & play with existing reefer infrastructure



Benefits:

- Fuel cost savings up to 40–60%
- Lower CO₂ emissions, enabling green logistics
- Reliable cooling in transit and storage—even in remote locations
- Protects product quality and extends shelf life
- Robust design with minimal maintenance

Applications:

- **Food & Beverage** – dairy, meat, seafood, fresh produce
- **Pharmaceuticals** – vaccines, medicines, temperature-sensitive products
- **Agriculture & Horticulture** – Farm-to-market cold storage and transport.
- **Retail & Distribution** – Supermarkets, cold storage hubs, and last-mile delivery.

