



Storage Battery is here!

Residential | C&I | Utility

We are Loom?

Loom is a leading lithium battery manufacturer based in Haryana, specializing in high-quality lithium batteries ranging from 1kWh to 5MWh for Energy Storage System (ESS) applications. Our state-of-the-art manufacturing facility in Ballabgarh, Haryana, spans 30,000 sq. mtr. and is fully automated to ensure efficiency, quality, durability, and consistency. With over seven years of experience, we have successfully supplied products across retail, distribution, large-scale projects, government sectors, and exports. Our PAN India presence includes rural outreach, a 350+ member team, four localized delivery centers, and two manufacturing units.




3 GWh


Near by Meerut- Prayagraj Expressway,
Meerut (Uttar Pradesh)

AI Generated

Loom at a Glance

8 years

in business. Founded in 2018

1,000 Cr.

Turnover

250 Cr.

Net Worth

18,000

Pin codes presence in India

5,000+

Li-ion Batteries deployed

350+

employees

25

Skilled service engineers

1,00,000+

Happy consumers

Manufacturing Capabilities

We have fully automatic lithium battery manufacturing facility which helps to improve production capacity as well as maintain quality and consistency. We manufacturer multi purpose lithium-ion battery for home inverter, energy storage, BESS applications, electric vehicles, rooftop solar applications, and more.

30,000 m²

Factory area (Planned)

A Grade

Lithium Cell

Machineries

World-class manufacturing facilities

3 GWh

Production Capacity

BMS

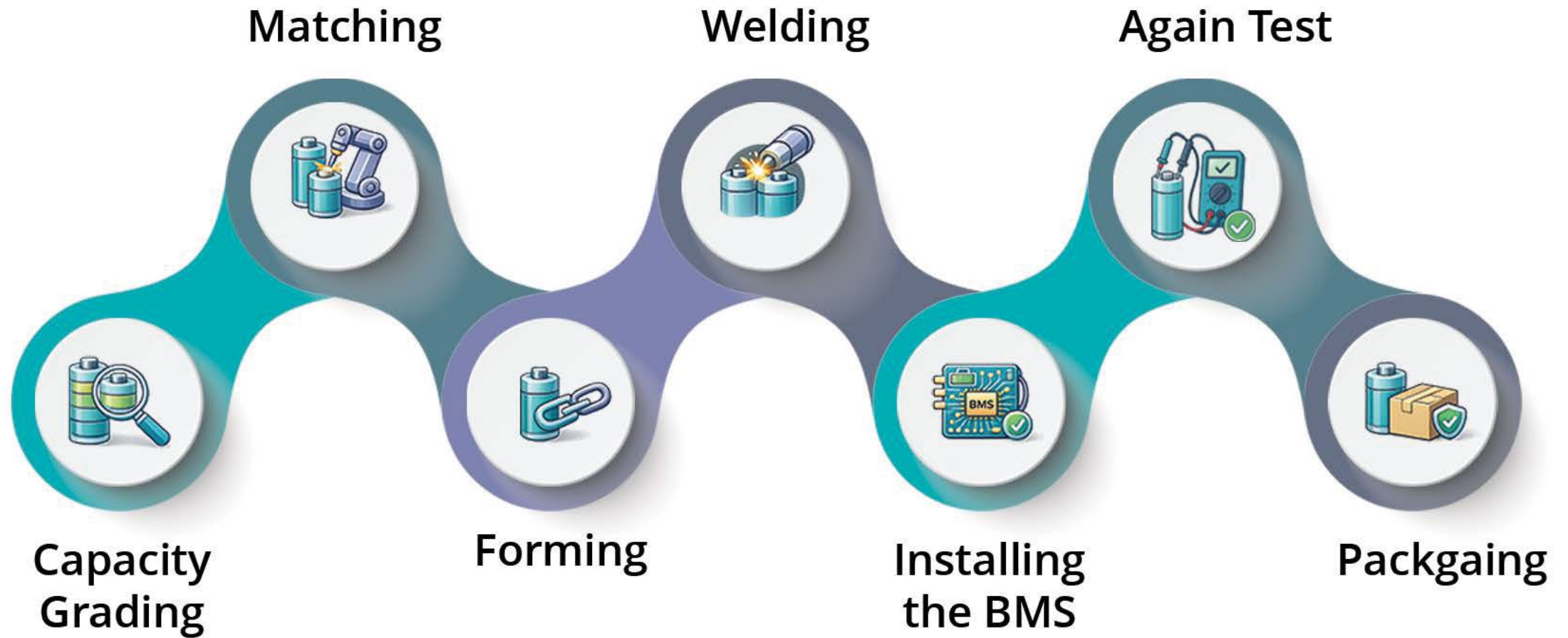
Smart BMS Protection with Communication

15 People

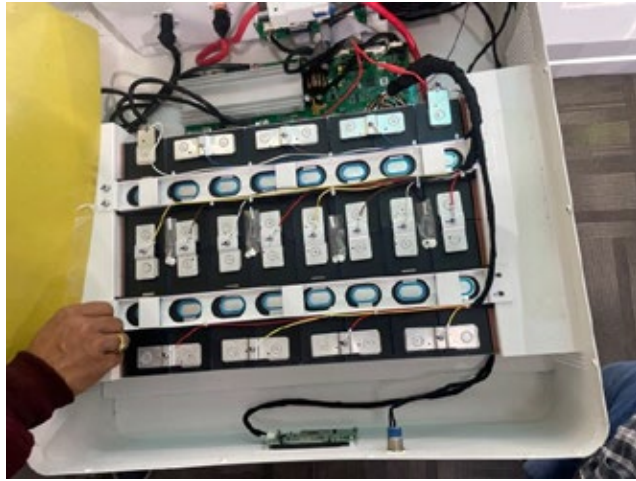
in R&D team



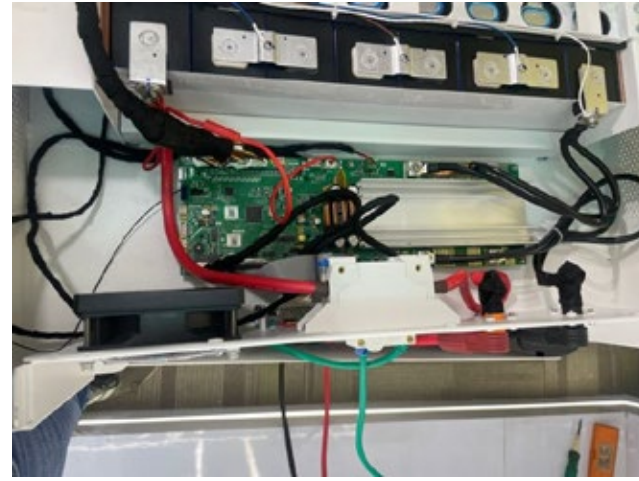
CAML BATTERY MANUFACTURING PROCESS



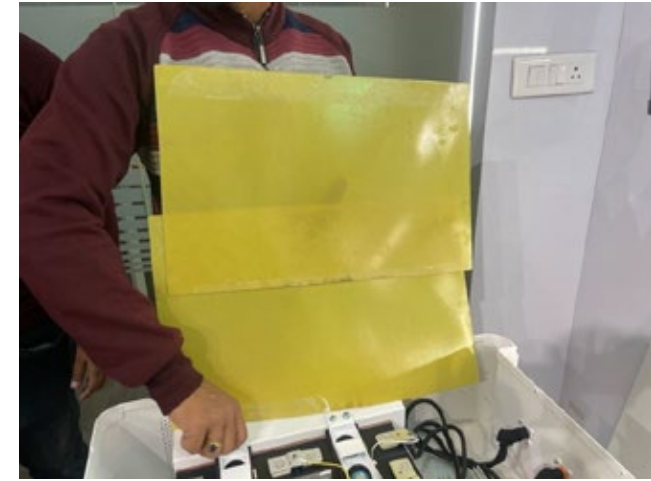
CAML Lithium-Ion Battery Components



3.2V, 100Ah Cells * 16



SMART BMS



Fire Resistance Proof



Cabinet



LED Display & Power Button



MCB, Positive & Negative Terminals

Applications We Supply

We have successfully installed our batteries across various use cases throughout India. The primary applications focus on addressing frequent power cuts, especially where the outage duration is less than four hours. Our consumers use storage batteries in both solar and non-solar setups. Below are some of the major sectors we serve:



Home



School



Hospital



Cold Storage



Open Access Solar



Poultry Farming



Factory



Agro Farm

Benefits of Lithium Battery

CAML Lithium Battery is a new storage technology that helps store maximum energy in minimal space. Key reasons to choose our batteries include easy transportation, quick installation, space-saving design, lightweight construction, and fast charging capability.

Longer Life

Up to 6,000 charging cycles

Light Weight

¼ weight compare than lead acid

Reliable & Safe

Highly integrated battery, BMS

Zero Maintenance

No acid refilling is required

Space Saving



Easy Installation

Plug-and-play installation in just 2–3 hours.

Fast Charging

80% charge in just 30 minutes

Expandable

Up to 45 kWh

Environment Friendly

No acid or gas emissions from the battery

Our Products

Our storage batteries are used across various sectors to address issues such as frequent power cuts, peak demand and savings, generator replacement, and more—serving residential, commercial, industrial, and utility applications. To meet diverse consumer needs, we offer a wide range of storage solutions, including Rack Mount Batteries, Wall Mount Batteries, Stackable Batteries, Cabinet Batteries, and Container Solutions.

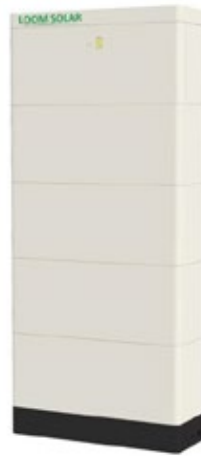
Low Voltage Range



**Rack Mount
Battery**



**Wall Mount
Battery**



**Stackable
Battery**





**Cabinet
Battery**










**Container
Battery**








Rack Mount Battery – 51.2V, 100Ah - LV

Model	Selling Point	Specification	Picture	Quantity
<p>CAML 10051 RM-TB</p>	<p>High Efficiency 97.6% battery cycle life with cooling system</p> <p>Various Application Solutions Variety of applications are supported such as peak-shift, peak-cut, frequency regulation, etc.</p> <p>Easy Installation, Highly Integrated ESS for easy transportation and Q&M All pre-assembled, no battery module handling on site</p> <p>Safety and Reliable Multi level battery protection layers formed by discreet standalone systems offer impeccable safety</p>	<p>Battery system: 5 kWh</p> <ol style="list-style-type: none"> Battery module spec.: 51.2V 100Ah Battery system configuration: 1S1P (1 module) Battery nominal voltage: 51.2V DC Battery system energy: 5kWh Battery voltage range: 44.0V ~ 56.16V DC Rated capacity: 100Ah Max. working current: 100A (1C) Cycle life: 25+2°C, 80% DoD≥6000 cycles Recommended DoD: 80% Communication method: two-way CAN/RS485 		<p>1</p>
	<p>Max. 32 batteries in parallel</p>	<p>FUSION5H <1 Phase> 5 kW</p>		
		<p>Compatible Inverter Brands:</p> 		



Wall Mount Battery – 51.2V, 100Ah - LV

Model	Selling Point	Specification	Picture	Quantity
CAML 10051 WM-LV	<p>High Efficiency 97.6% battery cycle life with cooling system</p> <p>Various Application Solutions Variety of applications are supported such as peak-shift, peak-cut, frequency regulation, etc.</p> <p>Easy Installation, Highly Integrated ESS for easy transportation and Q&M All pre-assembled, no battery module handling on site</p> <p>Safety and Reliable Multi level battery protection layers formed by discreet standalone systems offer impeccable safety</p>	<p>Battery system: 5 kWh</p> <ol style="list-style-type: none"> Battery module spec.: 51.2V 100Ah Battery system configuration: 1S1P (1 module) Battery nominal voltage: 51.2V DC Battery system energy: 5kWh Battery voltage range: 45.6V – 56.1V DC Rated power: 5000W Max. working current: 100A (1C) Cycle life: 25+2°C, 80% DoD≥6000 cycles Recommended DoD: 80% Communication method:RS232, RS485, CAN 		1
	<p>Max. 15 batteries in parallel</p>	<p>FUSION5H <1 Phase> 5 kW</p>		
		<p>Compatible Inverter Brands:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <small>India's No.1 Solar Company</small> </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;">  <small>Advancing E</small> </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>		


Wall Mount Battery – 51.2V, 200Ah - LV

Model	Selling Point	Specification	Picture	Quantity
<p>CAML 20051 WM-LV</p>	<p>High Efficiency 97.6% battery cycle life with cooling system</p> <p>Various Application Solutions Variety of applications are supported such as peak-shift, peak-cut, frequency regulation, etc.</p> <p>Easy Installation, Highly Integrated ESS for easy transportation and Q&M All pre-assembled, no battery module handling on site</p> <p>Safety and Reliable Multi level battery protection layers formed by discreet standalone systems offer impeccable safety</p>	<p>Battery system: 5 kWh</p> <ol style="list-style-type: none"> Battery module spec.: 51.2V 200Ah Battery system configuration: 1S1P (1 module) Battery nominal voltage: 51.2V DC Battery system energy: 10.24kWh Battery voltage range: 45.6V ~ 56.16V DC Rated capacity: 200Ah Max. working current: 200A (0.5C) Cycle life: 25+2°C, 80% DoD≥6000 cycles Recommended DoD: 80% Communication method: two-way RS232/CAN/RS485 		<p>1</p>
		<p>FUSION5H <1 Phase> 10 kW</p>		
		<p>Compatible Inverter Brands:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <small>India's No.1 Solar Company</small> </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;">  <small>Advancing E</small> </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>		


Stackable Battery – 307.2V, 100Ah - HV

Model	Selling Point	Specification	Picture	Quantity
CAML 10051 ST-RT	<p>High Efficiency 97.6% battery cycle life with cooling system</p> <p>Various Application Solutions Variety of applications are supported such as peak-shift, peak-cut, frequency regulation, etc.</p> <p>Easy Installation, Highly Integrated ESS for easy transportation and Q&M All pre-assembled, no battery module handling on site</p> <p>Safety and Reliable Multi level battery protection layers formed by discreet standalone systems offer impeccable safety</p>	<p>Battery system: Starts from 25kWh (5kWh * 5)</p> <ol style="list-style-type: none"> Battery module spec.: 51.2V 100Ah Battery system configuration: 1S1P (1 module) Battery nominal voltage: 51.2V DC Battery system energy: 100Ah Battery voltage range: 42V ~ 56.16V DC Rated capacity: 100Ah Max. working current: 100A (0.5C) Cycle life: 25+2°C, 80% DoD≥6000 cycles Recommended DoD: 80% Communication method: two-way CAN/RS485/RS232 		1
		<p>FUSION253H <3 Phase> 25kW – 100% Load – 2X Capacity of Inverter Rating (50kWh)</p>		
		<p>Compatible Inverter Brands:</p> 		

Cabinet Battery – LCI Series

Model	Selling Point	Specification	Picture	Quantity
CAML LCI Series	<p>Ideal for Outdoor Battery C&I System</p> <p>With hybrid inverter, C&I battery system can be flexibly deployed in industrial and commercial parks for industrial and commercial users with significant peak-valley power price gap. Enable to reduce electricity bills, improve electricity quality by peak-load shifting, reducing demand and power consumption, and provide emergency standby power for important loads.</p> <p>Max. 5 C&I Solutions in parallel</p>	<p>Battery system: 261 kWh</p> <ol style="list-style-type: none"> Nominal capacity: 261kWh Cell type: LFP3.2V/314Ah Battery system configuration: 261kWh/1P260S Nominal output power: 125kW Battery cycle time: >6000 times (25°C) Protection Level: IP55 Operating temperature: -25°C ~+ 50°C (>45°C Derating) Cooling method: Liquid cooling Fire protection: Aerosol Altitude: ≤4000m (>2000m Derating) Dimension: 1100*1500*2100mm Weight: ~2800kg 		1
		AC (on-grid)		
		<ol style="list-style-type: none"> Nominal power: 125kW Nominal voltage: 400V Nominal current: 180A Nominal frequency: 50Hz/60Hz Power factor: -1~1 AC access method: 3W/3W+N 		

5.01MW Container Solutions

Model	Selling Point	Specification	Picture	Quantity
<p>CAML 5.01 MWh + 2.5MW</p>	<p>High Efficiency 97.6% battery cycle life with cooling system</p> <p>Various Application Solutions Variety of applications are supported such as peak-shift, peak-cut, frequency regulation, etc.</p> <p>Easy Installation, Highly Integrated ESS for easy transportation and Q&M All pre-assembled, no battery module handling on site</p> <p>Safety and Reliable Multi level battery protection layers formed by discreet standalone systems offer impeccable safety</p>	<p>Battery system: 5.01 MWh Liquid-Cooled BESS Container System</p> <ol style="list-style-type: none"> Rated Energy: 5.01 MWh Cycle Life: 10,000+ cycles Rated Voltage: 1331.2 VDC Operating Voltage Range: 1040 VDC – 1500 VDC Rated Power (Charge/Discharge): 1250kW (0.25C) / 2500 kW (0.5C) Container Size: 20 FT x 8 FT x 9.5 FT Rack Configuration: 6 racks per container Cooling Type: Intelligent Liquid Cooling & Heating IP Rating: IP55 FSS: Condensed Aerosol + Water Mist 		<p>1</p>
		<p>PCS – 2.5MW for 0.5C & 1.25 MW for 0.25C</p>		
		<p>2.5 MW PCS Rated Power: 2500kW Step-up Transformer: 5MVA/33kV, 33± RMU: 33kV, 3 bays Distribution & Communication Box Communication Panel, include: RMU Relay, Protocol Converter, EMS Network Switch, PMS Network Switch, UPS (1kVA,4H), Panel, Container or Container base (20 feet) Spare parts (for 5 years)</p>		

Applications of BESS

BESS (Battery Energy Storage System) solutions are gaining traction in India across various sectors due to increasing demand for reliable, clean, and uninterrupted power. Here are the **main applications of BESS solutions in India**:



Micro Grid



Renewable Energy Integration



Power Distribution



EV Charging Stations



Commercial & Industrial



Telecom Tower

CAML – BESS Solution

Modular, Plug-n-Play Battery Energy Storage Platform



Fast & High ROI



Plug-and-Play Installation



Multi Levels of Fire Protection



Modular and Scalable



**Air/Liquid
Cooling Options**



≥6000 Battery Cycles



AI-backed EMS



UL 9540 Compliance



BESS on Rent!

Do you want to replace your DG Generator?

Loom offers a rental BESS solution for businesses such as manufacturing plants, hotels, schools, hospitals, corporate buildings, and more.

Key Benefits:

- Improve manpower efficiency during working hours.
- Achieve ROI within the warranty period.
- Compare your monthly DG expenses with affordable BESS rental plans.

Eligibility Criteria:

- **Capacity:** Minimum required capacity is 100 kW.
- **Company Type:** Should be a Pvt. Ltd. or Ltd. company.
- **Business Age:** Minimum 5 years in operation.
- **Turnover:** Minimum ₹100 Cr annual turnover*.
- **Diesel Generator:** Must have a minimum 100 kVA DG set.



ROI Overview

ROI (Return on Investment) for a **Battery Energy Storage System (BESS)** depends heavily on its **application, scale, tariff structure, and system cost**. Here's a breakdown of **ROI across different BESS applications in India**, including **approximate payback periods, key cost savings, and investment drivers**:

Si. No.	Matrix	Generator	BESS
1	Initial Investment	₹14,00,000	₹1,25,00,000
2	Running Cost Per Year	₹32,85,000	₹10,95,000
3	Life (12 Years)	₹3,94,20,000	₹1,31,40,000
4	Total Expense	₹4,06,20,000	₹2,56,40,000
Payback Period			
5	Payback Period		3 to 5 Years
Notes	Generator Running Time ~ 2 hrs./Day	Electricity Cost ~₹7.5/Unit	BESS Capacity ~500kWh
	Diesel Cost ~₹90/L	Maintenance Cost ~2%/Year	

CAML 125kW/261kWh BESS Solution

Loom introduces the **CAML 125kW/261kWh Standard All-in-One BESS Solution**, specifically designed for commercial and industrial establishments experiencing power outages of approximately **2 hours per day**. This advanced BESS solution seamlessly operates in both on-grid and off-grid modes, ensuring uninterrupted power supply, and optimized energy management for businesses.

Key Features:

Highly Integration: Highly integrated with energy storage unit, PCS, BMS, EMS, fire protection and temperature control systems.

High Safety: Three-level protection system, accurately monitoring short-circuit, over-current, over-voltage, over-temperature and other abnormalities.

Highly Efficient: PCS uses the third-generation semiconductor silicon carbide solution, intelligent liquid cooling temperature control strategy to reduce power consumption.



CAML 5 MWh BESS Solution

Loom introduces the **CAML 5 MWh Containerized BESS Solution** for utility-scale Battery Energy Storage System (BESS) projects. These systems are designed for peak demand management and peak-shaving applications.

The BESS charges during daytime hours (**11:00 AM to 2:00 PM**) using solar power when electricity tariffs are at their lowest. During evening peak demand hours (**5:00 PM to 11:00 PM**), the stored energy is discharged to reduce grid dependency and lower electricity costs.

Key Features:

Scalable: Modular & Scalable Design

Safe: Multi-layer Safety Protection

Efficient: Thermal Management Optimized

Smart: BMS + EMS Intelligent Control

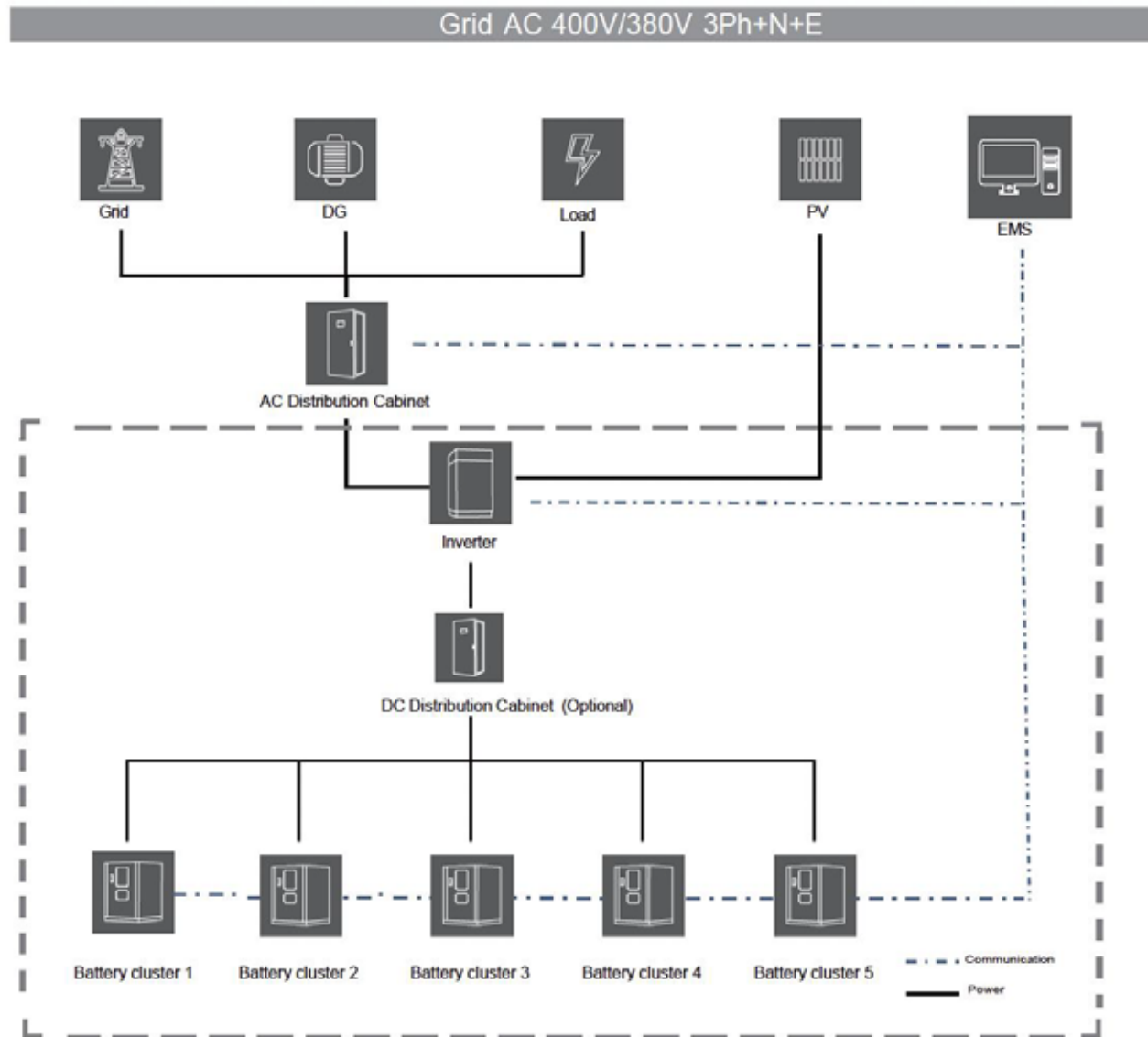
Integrated: Seamless System Integration

BESS Container contains:

1. Container Enclosure
2. HVAC/Thermal System
3. Fire Suppression System
4. Battery Packs
5. DC Combiner Panel
6. BMS & Control Panel
7. Emergency Disconnect
8. Sensors & Monitoring
9. Internal Caballing & Busbars



System Diagram



How Can We Start?

The BESS project can begin with two initial phases :
A Technical and a Commercial Feasibility Study.

Follow This Steps :-



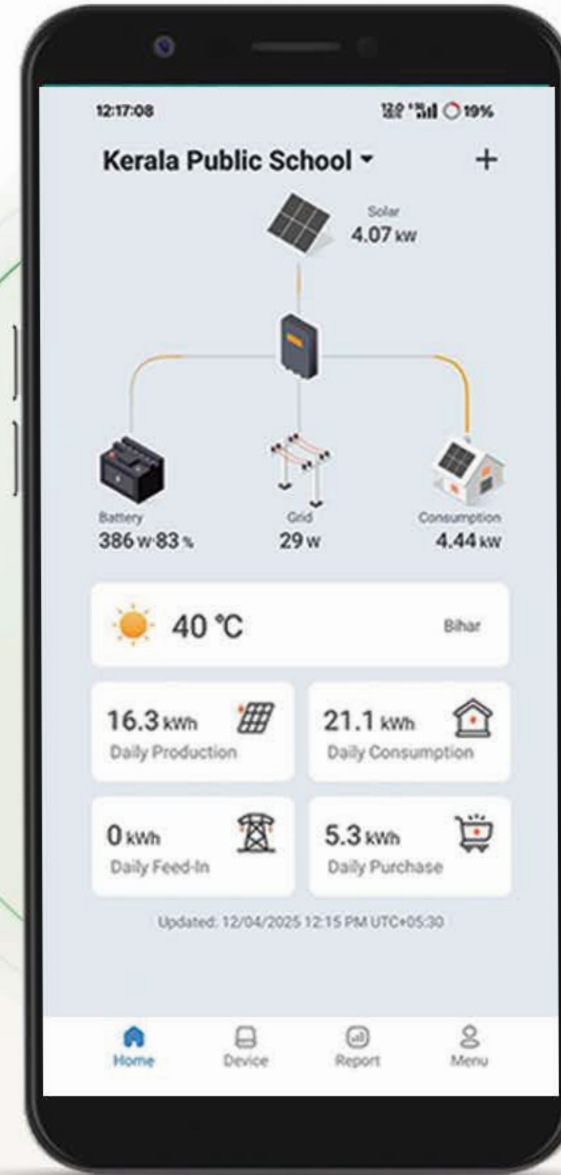
Manage Your Energy From Anywhere

Smart Monitoring . Smart Saving

Solar Man Smart App

-  Production Report
-  Real Time Report
-  Consumption Report
-  Battery Level Data

LOOM
India's No.1 Solar Company



Consumer & Application



Project Details: 1MW/2MWh BESS for Reducing Diesel Consumption, Goa (India)

Purpose: The purpose of installing the 1MW/2MWh BESS solution is to address the frequent power-cut issues in the hotel. This BESS system helps reduce diesel consumption and provides an uninterrupted power backup for critical loads.

Consumer & Application

Project Details : _____

375 kW/783 kWh BESS with 300 kW Solar Panels for Pipe Manufacturing Plant, Barabanki (Uttar Pradesh)

Purpose : The purpose of installing a 375 kW/783 kWh BESS along with 300 kW solar panels for a pipe manufacturing plant in Barabanki, near the Purvanchal Expressway (Uttar Pradesh), is to provide uninterrupted electricity during power cuts to ensure continuous operation of industrial loads.



Consumer & Application

Project Details : _____

50 kW/30 kWh with 50 kW PV Module Solar System, Bhiwani (Haryana)

Purpose : On this area, there is no electricity available, and consumer wants to 2kW to 40kW load with jerk current in daytime.



Consumer & Application

Project Details :————

40 kW/30 kWh + 30 kW PV Module Hybrid Solar System, Sohna (Haryana)

Purpose : This 40 kW/30 kWh system with a 30 kW PV module has been installed in restaurants to solve power cut issues and reduce high electricity bills.



Consumer & Application

Project Details : —————

25 kW/30 kWh + 25 kW HJT Solar Panel, Kanpur (Uttar Pradesh)



Consumer & Application

Project Details : _____

30 kW/60kWh + 30 kW Solar Panel, Wardha (Maharashtra)



Consumer & Application

Project Details : _____

20 kW/20 kWh + 20 kW Solar Panel, Nashik (Maharashtra)

Purpose : Our CAML 20kWh (10kWh × 2) Wall-Mounted Lithium-Ion Battery has been installed with a 10kW single-phase hybrid inverter at a farmhouse in Nashik, Maharashtra. This system provides 24×7 electricity to run both basic and heavy loads, reducing dependency on the diesel generator.



Consumer & Application

Project Details : _____

20 kW/20 kWh + 10 kW Solar Panel, Faridabad (Haryana)



Purpose : These are villas located in Sector 21B, Faridabad, where the total load is approximately 15 to 18 kW, including 10-12 air conditioners and other home appliances. To ensure ACs run during power cuts, we have installed a 20 kW/20 kWh energy storage system along with a 10kW solar power setup.

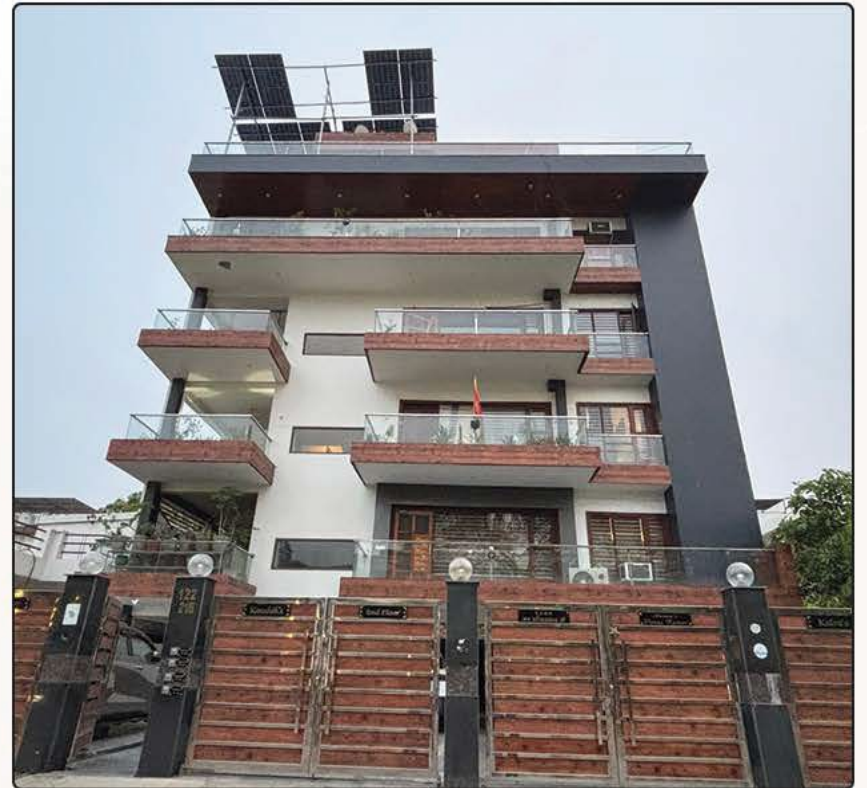


Consumer & Application

Project Details : _____

20 kW/30 kWh + 20 kW Solar Panel, Faridabad (Haryana)

Purpose : This is a multi-floor building where the consumer uses multiple ACs along with basic home appliances. The hybrid solar system has been installed to reduce electricity bills and ensure essential appliances run during frequent power cuts.



Consumer & Application

Project Details : _____

20 kW/20 kWh + 21 kW Solar Panel, Patiala (Punjab)

Purpose : At this location, power cuts occur from 10:00 AM to 5:00 PM during the month of April. During these hours, the customer was running appliances on a 45kVA generator. To solve this problem, he has now installed this system.



Consumer & Application

Project Details : _____

10 kW/ 15kWh + 10 kW Solar Panel, Gurugram (Haryana)



Purpose : At this location, our customer has installed a 10 kW hybrid solar system with a 15 kWh battery bank. He aims to reduce his electricity bill and run a load of up to 8 kW using this system.

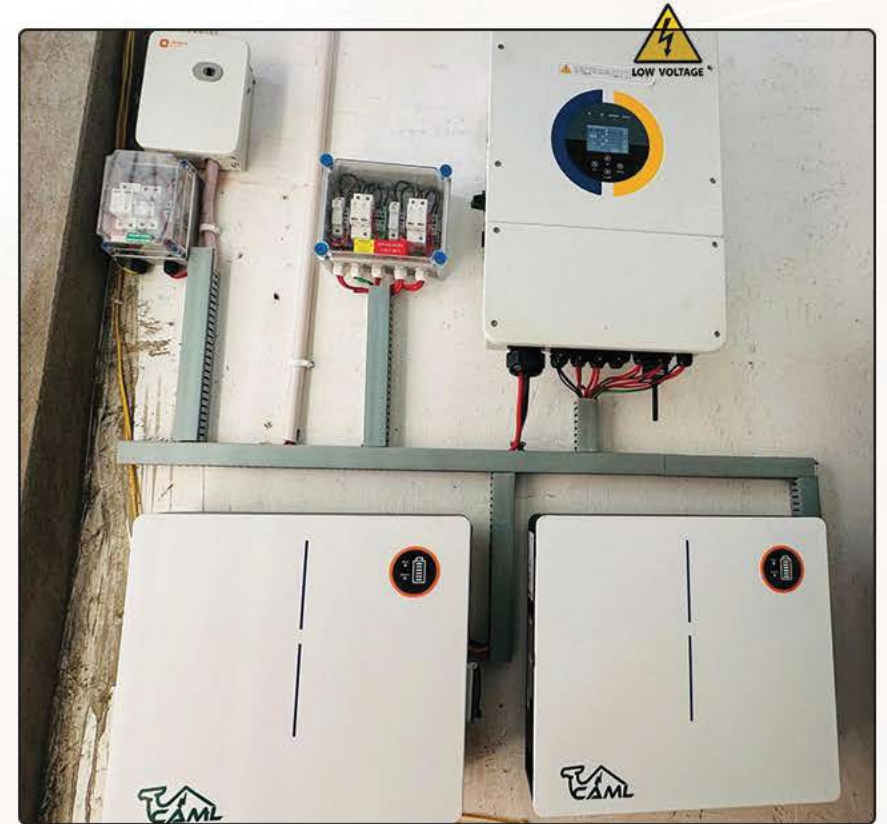


Consumer & Application

Project Details : _____

10 kW/10 kWh + 10 kW Solar Panel, Akbarpur (Uttar Pradesh)

Purpose : We have installed a 10 kW/10 kWh system with 10 kW solar panels at a petrol pump in Akbarpur, Uttar Pradesh, to provide an uninterrupted power supply for smooth business operations.

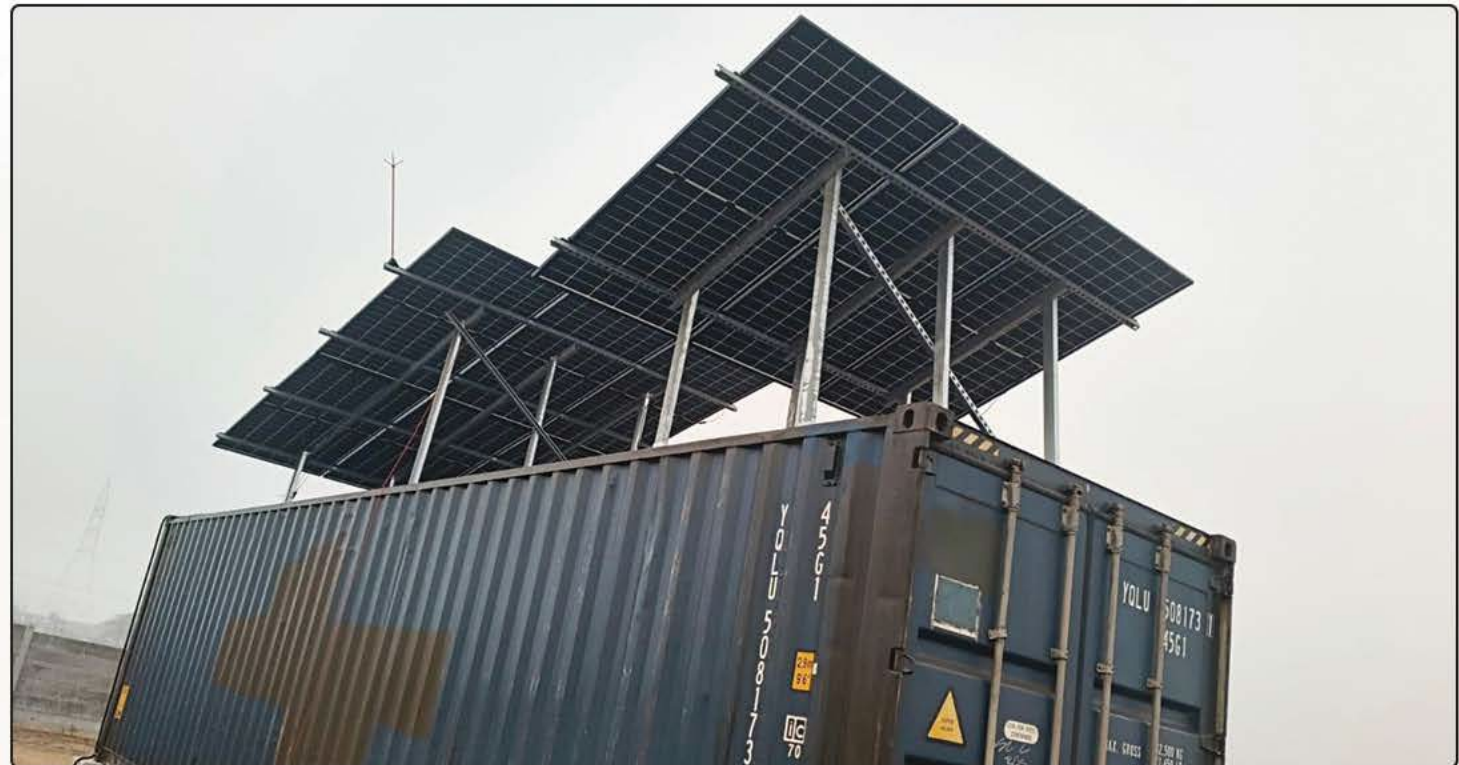


Consumer & Application

Project Details : _____

5 kW/15 kWh BESS with 5 kW Solar Panels, Mahoba (Uttar Pradesh)

Purpose : We have installed a 5 kW/15 kWh BESS with 5 kW solar panels for a container office at a construction site to provide electricity for running office appliances such as a 1.5-ton AC, laptops, internet, lights, and other essential loads.



Consumer & Application

Project Details :————

5 kW/15 kWh BESS with 5 kW Solar Panels, Dhar (Madhya Pradesh)



Purpose : We have installed a 5 kW/15 kWh system with 5 kW solar panels for a container office at a construction site to provide electricity for running office appliances such as a 1.5-ton AC, laptops, internet, lights, and other essential loads.

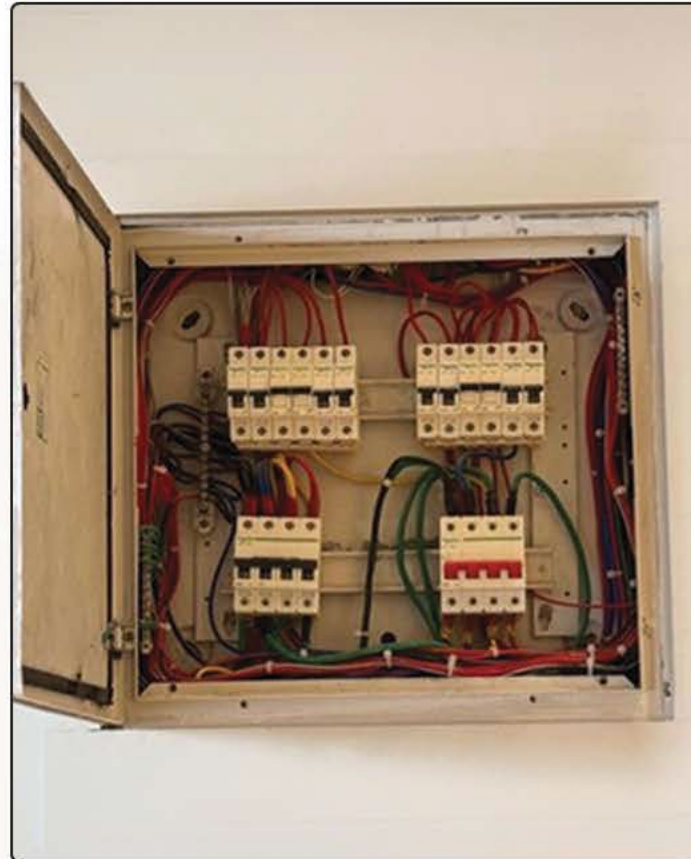


Consumer & Application

Project Details : _____

5 kW Power Backup Solution, Sector 14, Faridabad (Haryana)

Purpose : Our customer has installed a 5kW/5kWh power backup solution to run critical loads such as lights, fans, a refrigerator, and more.



Consumer & Application

Project Details : _____

5 kW/5 kWh with 6 kW Solar Panel, Sector 151, Noida (Uttar Pradesh)



Purpose : This is a complete off-grid solution for a farmhouse located in an area without electricity. With this storage system, the consumer can operate basic appliances such as a water pump, lights, fans, TV, and more.



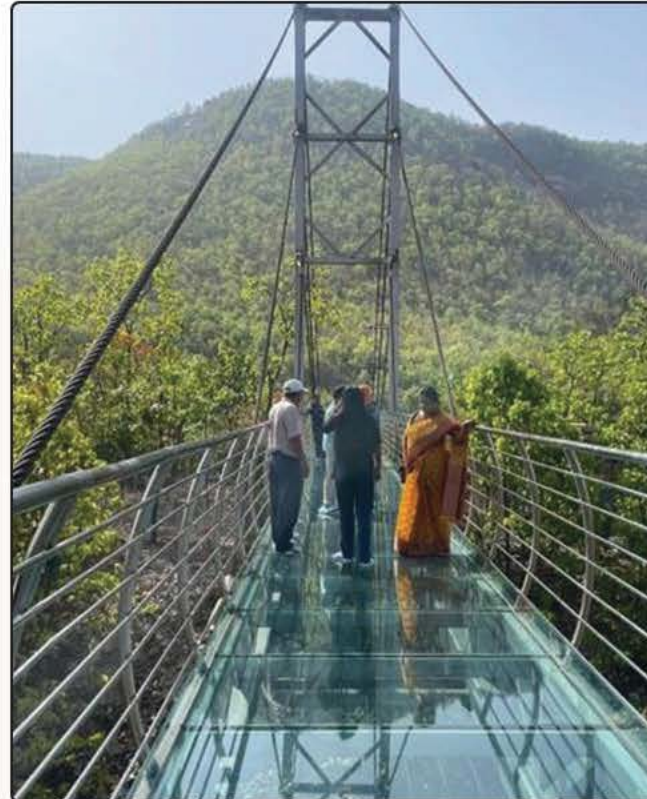
Consumer & Application

Project Details : _____

5 kW Off Grid Solar System in Nature Safari, Rajgir, Nalanda (Bihar)



Purpose : This is a complete standalone solar system installed at Nature Safari, Rajgir. We have provided our robust products including Shark Bifacial Solar Panels, CAML Storage Battery, and MPPT Solar Inverter. There is no grid electricity available at this location, and with this solar setup, essential loads such as CCTV cameras, lights, fans, and water pumps are powered efficiently.



Consumer & Application

Project Details : _____

5 kW Hybrid Solar System, Rajgir, Nalanda (Bihar)



Purpose : Our customer wants a solar system that works during power cuts, especially in the summer season. We recommend our hybrid solar system for this school. The average power consumption of the school is 3 kW (covering essential loads such as fans, ACs, lights, laptops/computers, and Wi-Fi).



Battery Expo Participation



Battery Expo Participation



Thank you...

Need help? Find more information, visit on our website: www.loomsolar.com

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**We Give You
The BEST**

www.loomsolar.com