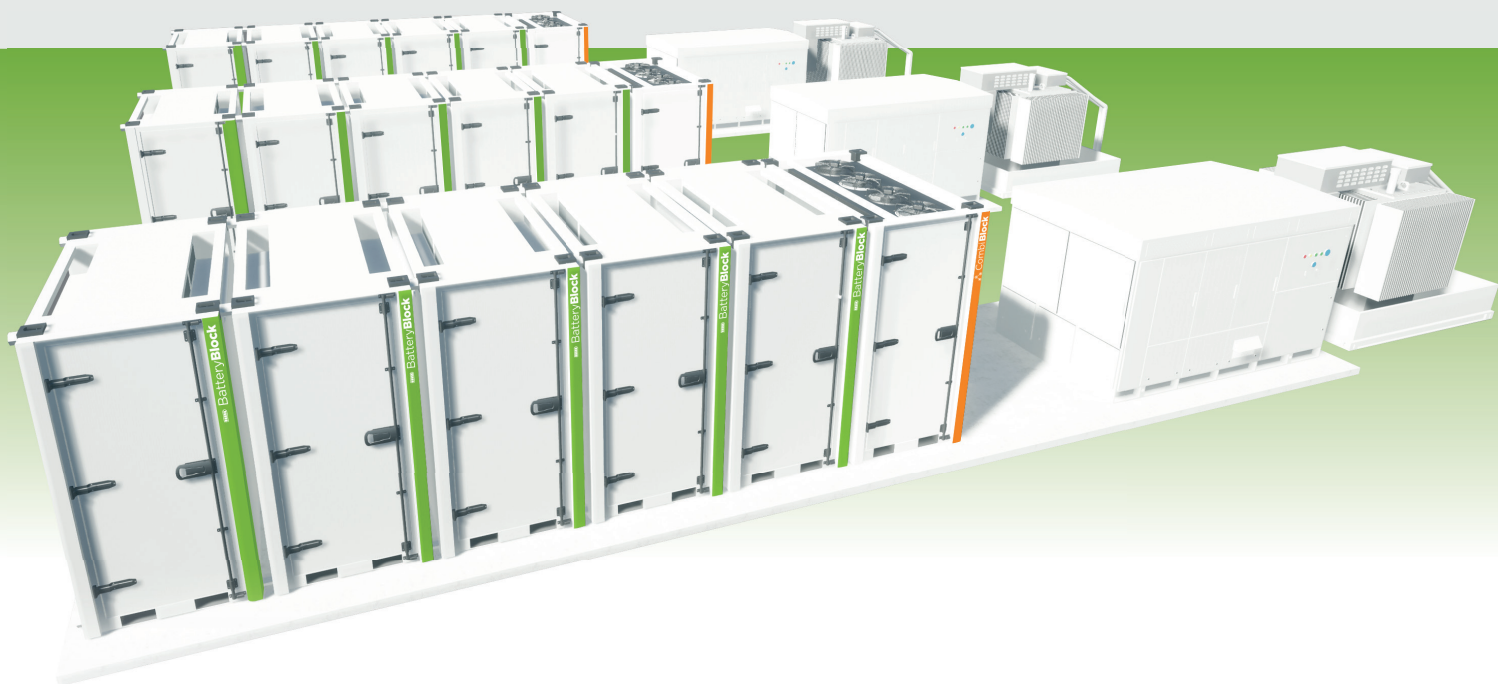


# LeBlock™

Intelligent Energy  
Integrated by **Leclanché**



## A Safe Modular Energy Storage System to Reduce Overall Cost



High safety energy storage system

Modular, scalable and plug & play

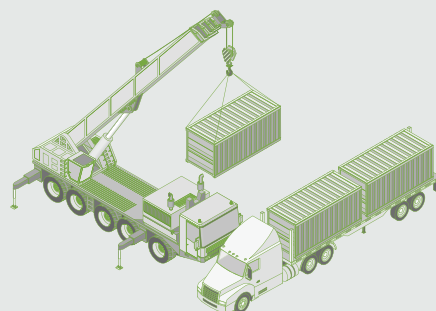
With simplified logistics  
for a reduced total cost of ownership

# Today, batteries for stationary storage have become a commodity, but...

How to make sure fire doesn't spread out and destroy the complete installation?

How to increase its capacity or relocate a system over time?

How to reduce the duration, complexity and cost of the installation?



## Our approach to safety

### Fire Resistant Construction

Enclosure walls with high fire rating with lockable doors and door sensors ensure safe operation by personnel.

### Fire Detection & Suppression System

Gas, smoke and heat detection with automatic activation to detect and suppress a fire before it spreads to cells.

### Emergency Stop

Controlled shutdown can be manually activated by first responders or automatically triggered by internal safety features and battery anomalies detected by the Leclanche EMS.

### Isolation Monitoring

To detect faults and safely disconnect the batteries.

### Deflagration Panel

Each Battery Block is equipped with a standard deflagration panel to release internal overpressure in a safe manner, designed per NFPA 68.

### Certification

The LeBlock is designed according to NFPA 855 (Standard for the Installation of Energy Storage Systems) and NFPA 68 (Standard on Explosion Protection by Deflagration Venting).

### Additional Features

- ISO shipping corner castings and fork pockets for simplified transport and installation.
- Easy replacement of one 5ft battery block if needed.
- Cabinets designed for seismic zone 4 and hurricane category 5.

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Size of a 20 ft container



# Modular & scalable

Based on more than 110 years of experience in battery manufacturing and integration, Leclanché's new concept is based on practical modularity and rooted in proven military logistics solutions.



## BatteryBlock

- High density lithium-ion batteries including fire detection and suppression system
- 745 kWh with LFP technology

## CombiBlock

- Interconnection and protection of the batteries
- High efficiency temperature management for the batteries

## Power Conversion

- Selection from tier 1 supplier

## Energy Management System (EMS)

- Control and monitoring of the entire energy storage system



## Leclanché Has Developed a Solution to These Challenges!

Leclanché provides complete electrical energy storage system (EESS) and energy management systems (EMS) for a wide range of customers and applications, including microgrids, renewables and storage as well as EV fast charging stations.

In the execution of more than 140 MWh of projects in a wide range of environments worldwide, we too have experienced the complexity and high costs of logistics and installations. Based on this experience, Leclanché is proud to introduce a revolutionary and holistic solution for simplifying logistics, installation, relocation and recycling of batteries. Meet LeBlock.

# Reduce TCO and CO<sub>2</sub> emissions over the entire life of your project

From project inception and installation to maintenance and decommissioning, LeBlock provides a smart, responsible and futuristic way for rethinking your next energy storage solution.

Design	Logistics	Installation	Capacity augmentation	End of life
<b>Cost reduction</b> <ul style="list-style-type: none"> <li>Modular concept adapts to each project with minimal engineering</li> </ul>	<ul style="list-style-type: none"> <li>Minimizes complexity</li> <li>Reduces cost of transportation</li> </ul>	<ul style="list-style-type: none"> <li>Spare cables stored on site for ease of maintenance</li> <li>Reduces cost</li> </ul>	<ul style="list-style-type: none"> <li>Simplifies upgrade or replacement process</li> <li>Reduce TCO</li> </ul>	<b>Easy unplugging and removal</b> 
<b>CO<sub>2</sub> reduction</b> <ul style="list-style-type: none"> <li>Increase system lifetime</li> </ul>	<ul style="list-style-type: none"> <li>Reduce CO<sub>2</sub> emissions from transportation</li> </ul>	<ul style="list-style-type: none"> <li>No waste management</li> <li>No empty containers to return</li> </ul>	<ul style="list-style-type: none"> <li>Reduced auxiliary consumption</li> </ul>	<b>No packaging waste for recycling</b> 

## Easy to transport & install

- Once combined, a group of 4 Blocks is transformed into a 20-foot, CSC-certified container which can be easily transported
- Reduces the cost, complexity, duration of logistics and installation headaches
- No waste or packaging to remove since the system arrives fully-populated and only needs to be connected
- Makes it possible to relocate LeBlock segments or an entire system to where energy is needed
- Simplifies the recycling process by sending back a block or entire system without unmounting or need for packaging

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**WE ARE ENABLING  
THE ENERGY TRANSITION**



**STATIONARY  
SOLUTIONS**



**E-MOBILITY**



**SPECIALTY BATTERY  
SYSTEMS**