

# LeBlock™

Intelligent Energy  
Integrated by **Leclanché**



A Breakthrough Modular Energy Storage System to Reduce Overall Cost and Environmental Footprint



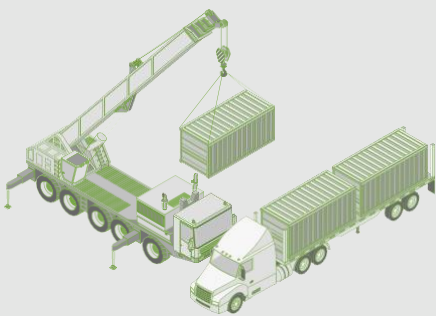
Modular, scalable and plug & play  
Simplifies logistics  
Reduces total cost and carbon footprint

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

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

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

How to reduce its carbon footprint and environmental impact?



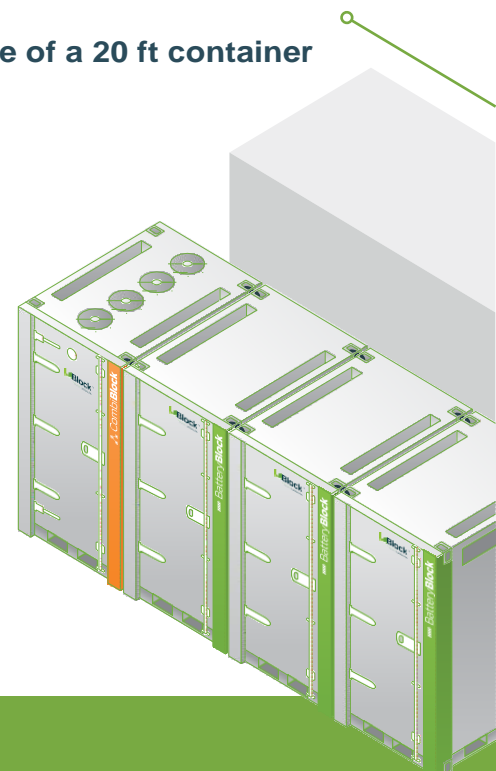
## Leclanché Has Developed a Solution to These Challenges!

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

In our installation of 130 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.

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Size of a 20 ft container



# Modular & scalable

Based on 110 years of 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 suppression system.
- 744 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)

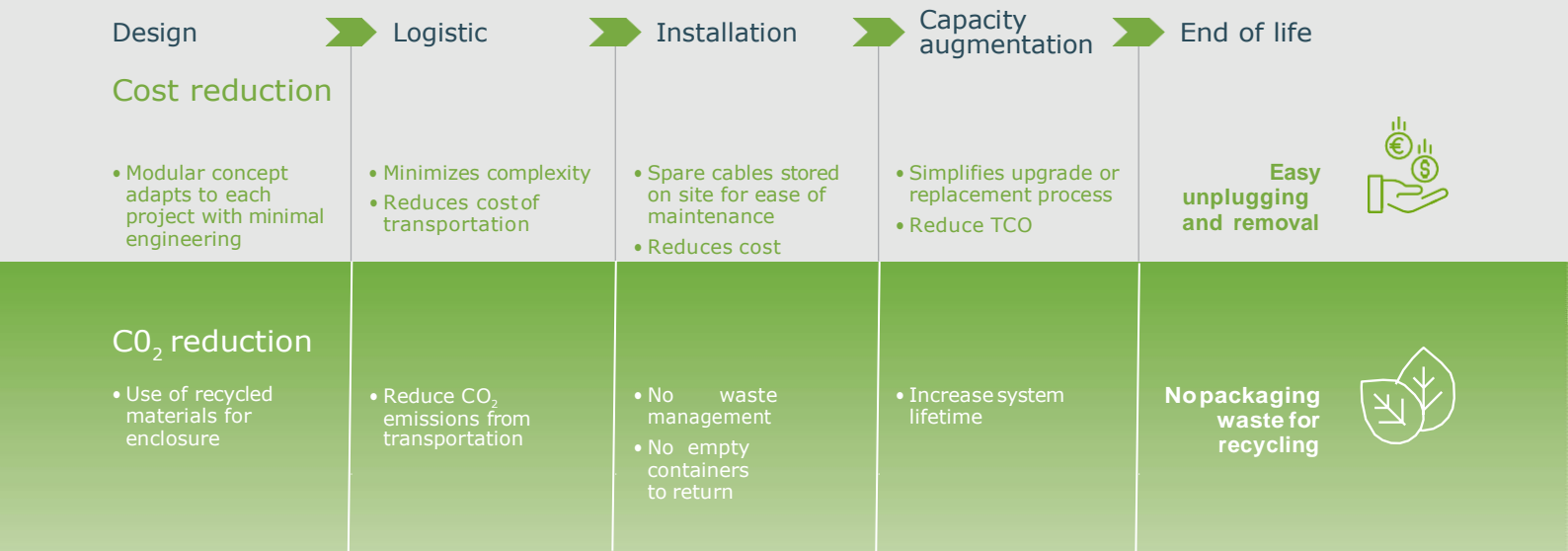
- Control and monitoring of the entire energy storage system.

# Easy to transport & install

- Once combined, a group of 4 LeBlock CombinerBlocks, BatteryBlocks and/or ThermoBlocks is transformed into a 20-foot, ISO-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 intact 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

# Reduce TCO and CO2 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.



## Our approach to safety



### Fire Resistant Construction

Enclosure walls with 90-minute 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 to prevent it from spreading to the cells.

### Fire Resistant Construction

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 BatteryBlock is equipped with a deflagration panel to release any internal overpressure in a controlled manner.

### Certification

The LeBlock concept is designed to meet UL and IEC standards. The system is certified UN38.3, UL9540A, IEC62933, NFPA 855, NFPA 68 and more.

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STATIONARY SOLUTIONS



e-TRANSPORT SOLUTIONS



SPECIALTY BATTERY SYSTEMS

WE ARE ENABLING THE ENERGY TRANSITION