

LECLANCHÉ,  
WE ARE IN CHARGE



Providing battery energy storage solutions to commercial, industrial, and utility clients since 1909



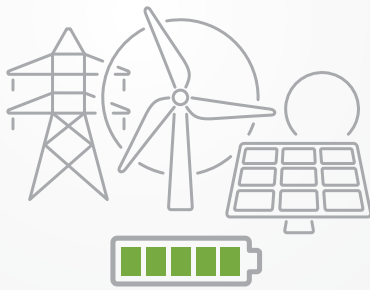
**STATIONARY  
SOLUTIONS**



**e-TRANSPORT  
SOLUTIONS**



**SPECIALTY BATTERY  
SYSTEMS**



## STATIONARY SOLUTIONS

Leclanché provides **complete battery energy storage solutions** (BESS) and energy management control systems (EMS) for a wide range of customers and applications, including:

- **Front-of-the-Meter Utility Scale Storage**
- **Grid & Ancillary Services**
- **Behind-the-Meter C&I Energy Storage and Load Management**
- **Solar+Storage and Microgrids**
- **EV Fast-Charging Stations**



RELIABLE ENERGY

AND POWER SOLUTIONS



### Did you know...

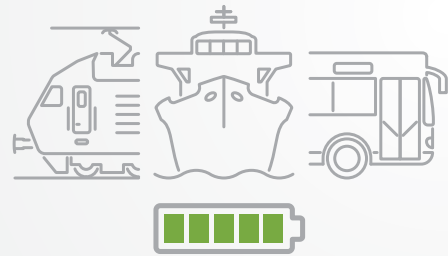
Leclanché completed the Cremzow Project, a **full turnkey EPC energy storage solution** in northeast Germany.

This **31 MW/ 35 MWh** project provides frequency regulation services to the local utility.

Other stationary projects commissioned by Leclanche in 2018 include:

- **Marengo - PJM/U.S. (20 MW/20 MWh)**
- **Basin-IESO - Toronto, Ont. (4 MW/12 MWh)**





## e-TRANSPORT SOLUTIONS

Leclanché is a global leader in developing energy storage technology solutions for the transportation sector. Our two proprietary lithium-ion battery technologies (G-NMC and LTO) offer both power and energy capabilities that enable us to deliver battery systems that are optimally designed for each unique application. Within the electrified transportation sector Leclanché focuses on the following key markets:

- Buses and Trains
- Marine
- Industrial Machinery

WITHOUT EMISSIONS

## MASS TRANSPORTATION

### Did you know...

Leclanché supplied the complete **4.2 MWh** battery system to the full electric ferry project for Ærø Island in Denmark.

**This is the largest electric ferry in the world** and it will be in operation in 2019.

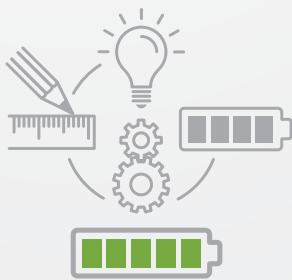




## Project Highlights...

**Graciosa** is a small island in the Atlantic and is part of the Portuguese Azores. Leclanché built a **7.4 MW/3.2 MWh battery storage system** coupled with a new solar PV plant and wind farm.

This hybrid **microgrid** provides the island with clean, renewable energy and will **decrease Graciosa's annual diesel fuel consumption by more than 65%.**



### SPECIALTY BATTERY SYSTEMS

Specialty battery systems designed specifically for your applications. Leclanché has a broad range of storage solutions to provide:

- **Replacement of lead acid batteries/diesel generators**
- **Automated Guided Vehicles (AGV) and Robotics for commercial and industrial applications**
- **Off-grid UPS/telecom/street lighting solutions**

## Did you know...

Leclanché has provided a customised battery pack for **off-grid street lighting poles** fully powered by solar PV. 200 street lighting poles have been installed in Saudi Arabia.



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#### STATIONARY SOLUTIONS



#### e-TRANSPORT SOLUTIONS



#### SPECIALTY BATTERY SYSTEMS