Leclanché Energy Storage Solutions

Corporate Presentation

August 2021









O2 eTransport Solutions Business Unit

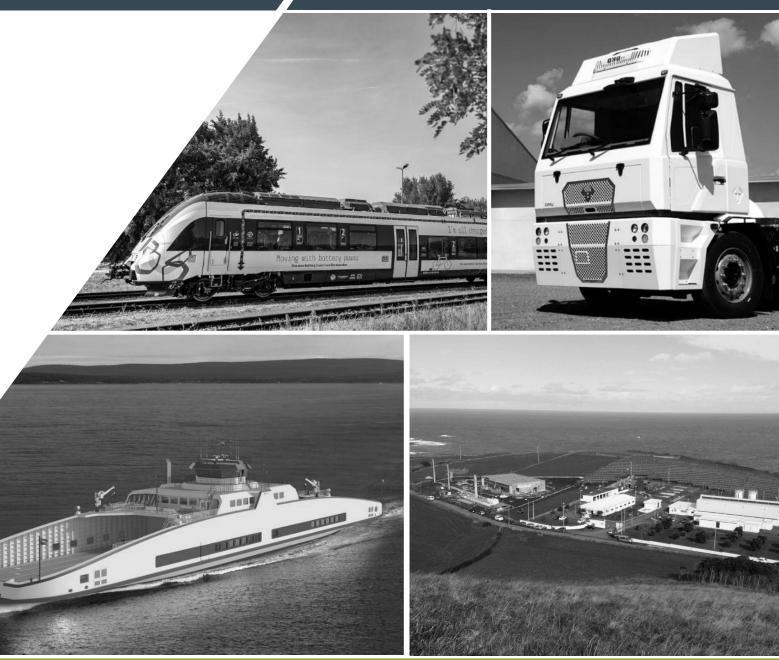
Energy Storage Systems Business Unit

Solid-Base To Deliver Profitable Growth

5 Leclanché Technologies and Financial Information under NDA only



Executive Summary





Leclanché, the 111-year-old Startup, is at the heart of the Energy Transition

Energy transition to reduce the overall Greenhouse Gas Emissions is being driven primarily by the changes in the management of electricity networks and the electrification of transport systems.

Leclanché's strategy and business model is at the heart of the convergence of these drivers.

Electrification of transport systems

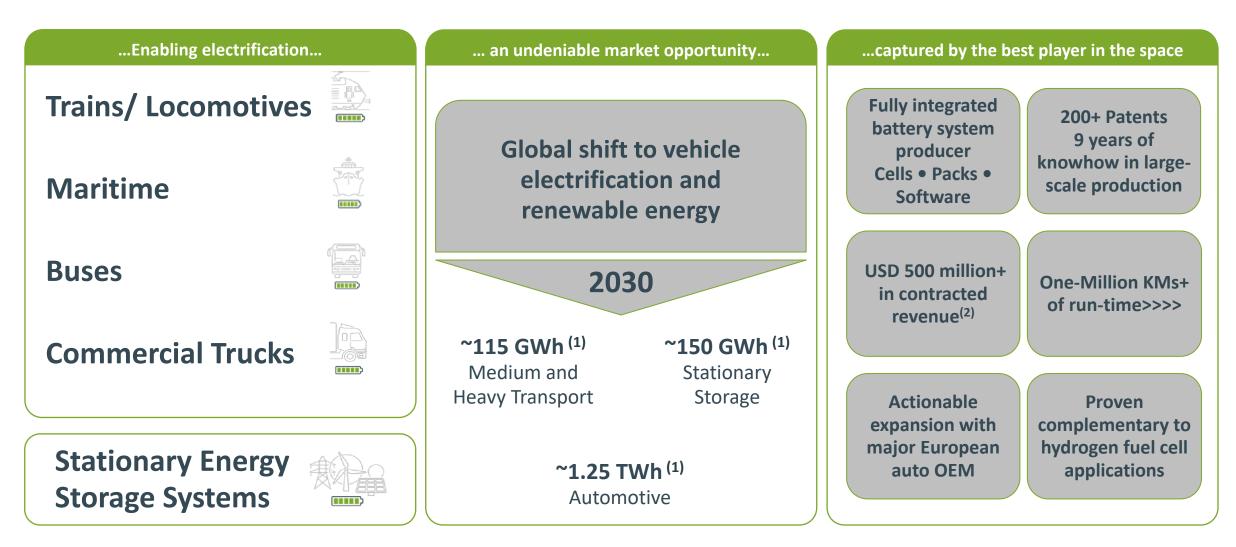
We deliver integrated Battery Packs for Electric Vehicles of all sizes, with intelligent interface to the charging infrastructure.

Renewable energies integration

We deliver Energy Storage Systems that reliably add intermittent solar and wind energies in the electricity network as dispatchable power on as needed basis.



Leclanché At-a-Glance

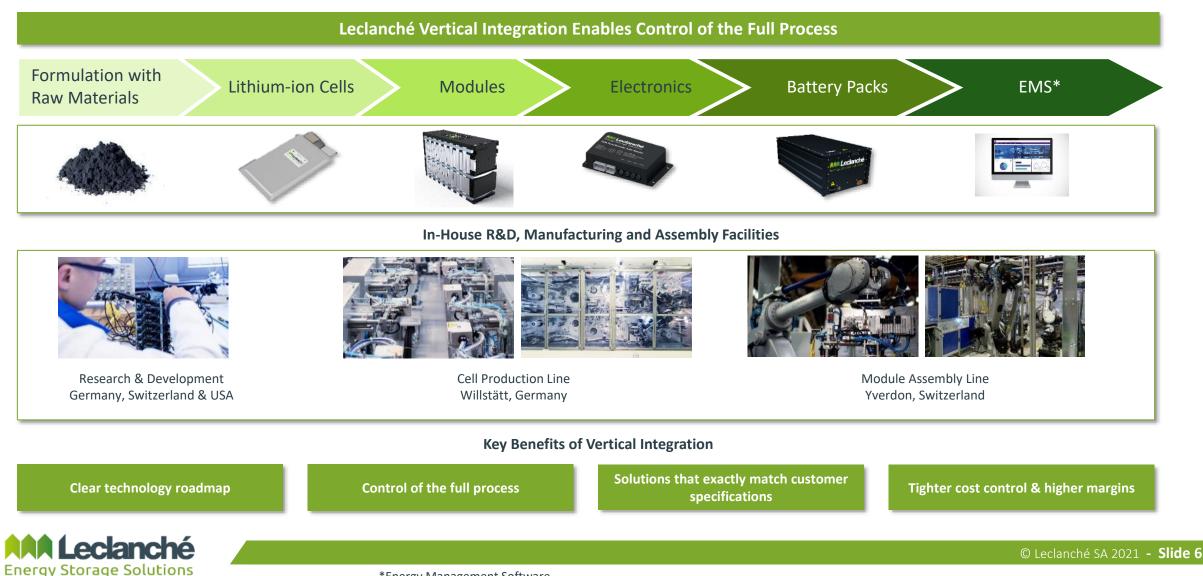


¹ Based on IDTechEX Research Dec. 2020 (COVID Adjusted) and LUX report. The Medium & Heavy transport sectors are expected to reach 115 GWh in 2030 @ a CAGR of 26% from 2020. ² Contracted Revenue = Backlog and framework supply agreements including general T&C / MOU / Long Term Supply Agreement

Energy Storage Solutions

Vertical Integration Enables Greater Customization, Market penetration & Margin Advantage

Unique R&D and design capabilities across the complete battery system



*Energy Management Software

Trusted Customer Partnerships based on comprehensive offer

Broad-based strategic customers across the global battery value chain

Existing & Long-term Strategic Partnerships with Leading OEM Customers



Highest Level of Certifications, Safe & Reliable Performance

Corporate Certifications

- ISO 9001:2015 Quality management System
- ISO 14001:2015 Environmental management System

• ISO 45001:2018

Occupational health and safety management system





Industry Certifications

• Marine type approvals



• Railways applications



• Road Transport





eTransport Solutions Business Unit





Strategy is Working... Winning in the Marine Marketplace

31 MWh delivered over 7 vessels and an additional 40 MWh planned for 12 vessels that are in the pipeline



e-Ferry, Denmark: Launch of the world's largest fully electric ferry, maiden voyage Aug 2019, equipped with 4.3 MWh Leclanché battery pack.



Wasaline, Finland: Recent contract win to supply of 2.2 MWh battery packs. Project kick off 2020. Delivery May 2021.



Damen, Canada/The Netherlands: 2 ferries with 1.9 and 4.6 MWh battery packs, delivery in 2020. Vessels under construction.





Grimaldi, China/Italy: 9 ferries each with 5.1 MWh battery packs, delivery from



Hyseas III, Scotland: 0.7 MWh battery pack for world's first hydrogen hybrid marine vessel. Delivery in 2020.



Yara, Norway: "Yara Birkeland", the world's first electric, autonomous feeder vessel will reduce diesel truck haulage by 40k journeys per year. 6.7 MWh Leclanché battery packs. Delivery December 2019/January 2020.



Awilco, Singapore: Project 1 & 2- drilling platforms under construction, both with 1.9 MWh battery packs operating as spinning reserves (Acting as a generator set).



Siemens/Shiptec, Switzerland: MS Jungfrau & 3 other hybrid CGN vessels. Supply of battery packs of 169 kWh 599 kWH (x2) & 1.4 MWh.





Click to see Leclanché eMarine movie

Strategy is Working... Winning in the Ground Transport Marketplace

Reference projects with world leading OEMs



Train

Bombardier Transportation: Leclanché SA is selected as preferred global provider of Battery Systems, giving a potential business revenue of more than 100m € over the next 5 years.



Truck

PACCAR group/TMNA: Hybrid electric truck in USA: delivered prototype packs. Long term development program with hydrogen fuel cells and Leclanché LTO battery pack.



Train

Alstom: Delivery of 840kWh battery systems for 11 BEMU trains in Germany from 2021 to 2023. Potential for 72 additional trains systems within Europe.



Bus

Skoda Electric: Specific Skoda battery packs supplied for use in electric buses. Discussion ongoing for further supply.



Bus

Ashok Leyland: Delivered battery packs for 40 electric buses. Potential volume > 50 MWh over the next 3 years.



FCC

Delivery of INTEG-39 Energy packs for use in municipal vehicles such as refuse trucks and water tankers. 156 kWh of packs delivered & potential for further 312 kWh.



URO

Supply of INTEG-39 Energy packs for TT Uro truck project. Negotiations in place to supply 5.6MWh of packs.



1/3 of the global railway network is still powered by diesel

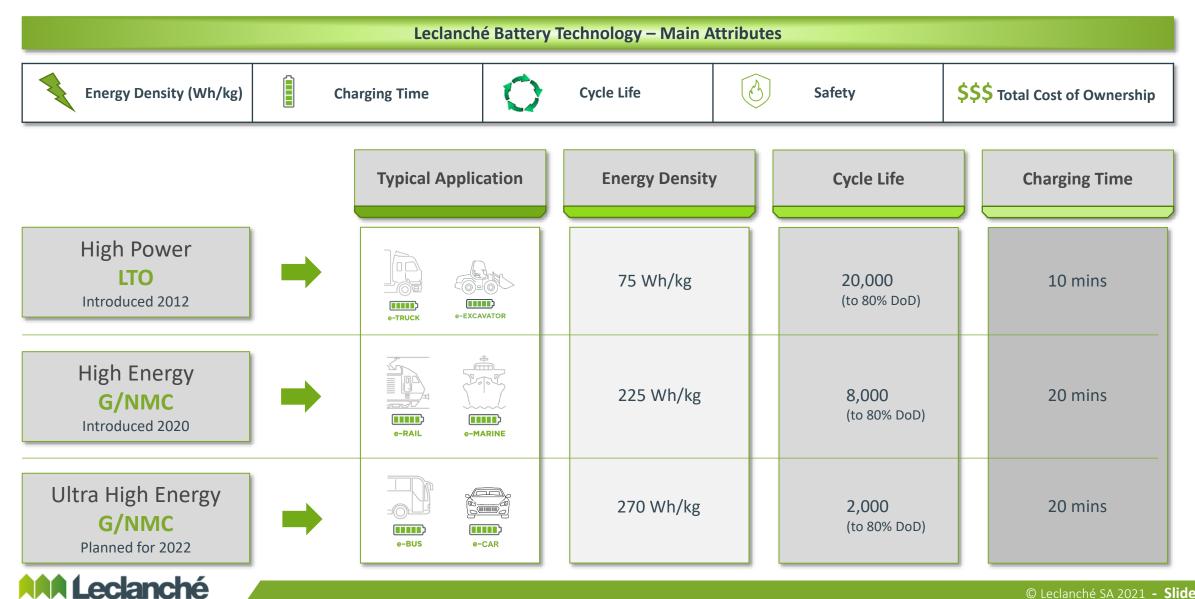
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Competitive cost-base driven by increasing energy density of cells

Energy Storage Solutions



Competitive cost-base driven by next generation battery module design and production processes

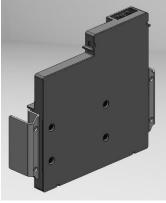
Technology Leadership

Modules-crucial building block to design a wide range of solutions for electric vehicles

- Production Designed for high volumes
- Energy density (Wh/kg) 15 to 20% improvement
- Configuration Up to 47 configurations possible
- Size (volume) More compact with 7% volume gain
- Construction Use of high precision laser assembly
- Designed in a simultaneous engineering process with
 Comau, part of the Stellantis Group.









Competitive cost-base driven by industry leading battery management system

Technology Leadership

Leclanché battery management system (BMS) and internet of things (IOT) platform



In-house software platform for battery and energy management takes the batteries into the clouds for services and maintenance



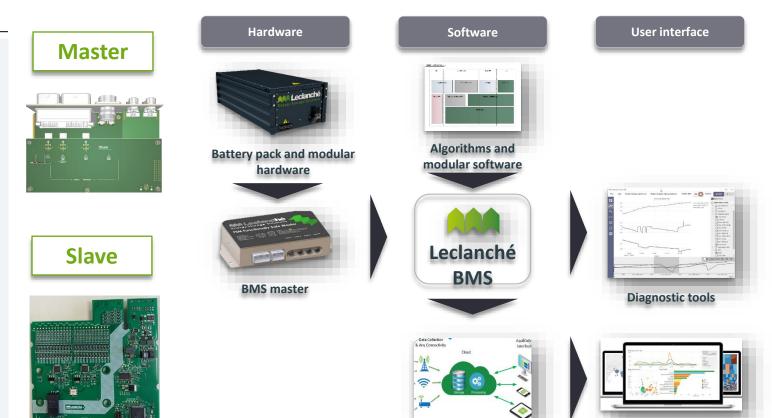
Hardware and software development out of one hand, perfectly matching the proprietary cell technology of Leclanché or best BMS performance

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Driven by digital innovation roadmap with IOT solutions, advanced BMS algorithms, wireless communication and smart sensors for connected batteries



Systems designed to be functionally safe with automotive safety integrated level ASIL-C (ISO 26262), SIL 2 for railway and DNV-GL for marine applications



IOT platform

Energy Storage Solutions

Visual analytics

Leadership In Electrification of Hard-To-Decarbonize Heavy Transport Sector

Hydrogen fuel cells are an ideal and complimentary technology with Leclanché battery systems

Leclanché is already actively working on multiple hybrid fuel cell projects





Expansion into Passenger EVs, Reaching Competitive-Scale

Entry led by proven technology leadership

- Almost doubles future addressable market with massive potential.
- Adds substantial scale to procurement activities reducing overall product costs for our other eTransport verticals.
- Allows monetization of R&D expenses through licensing agreements OR contributing as equity in joint ventures with partners.
- Offering a fully integrated product encompassing "Powder-to-Pack" proprietary technologies: electrochemistry, cells, battery modules, battery management systems, and battery pack design.
- One of the largest pools of ~350 trained personnel in Europe with extensive experience in electrochemistry and mass production, and protected IP with more than 200 patents over 13 families.
- European based and well-established supply chain relationships.
- Time-to-market advantage based on proven manufacturing processes.





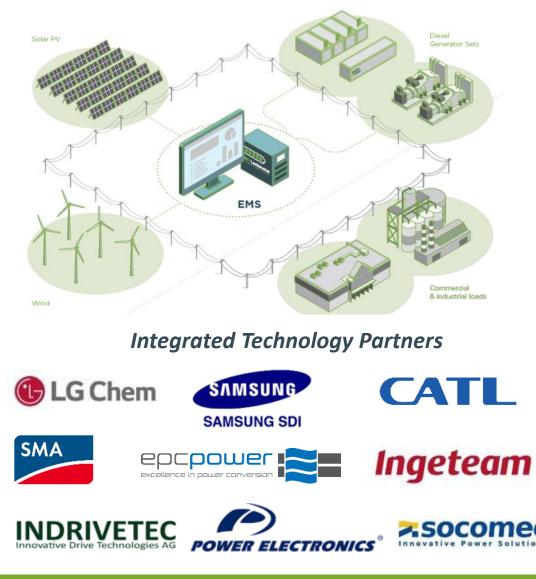
Energy Storage Systems Business Unit





Leclanché Stationary Storage Solutions Credentials

- 150 MWh installed, targeting 1GWh by 2025
- Battery-based Energy Storage System (BESS) based on multi-platform design and integration with LeBlock[™] modular system
- EMS-enabled revenue stacking and extended battery life management
- Positioned in high-growth markets such as fleet management, fast-charging, load displacement and off-grid expertise





Proven, Proprietary & Vertically Integrated Battery Systems

Leading stationary storage products & software



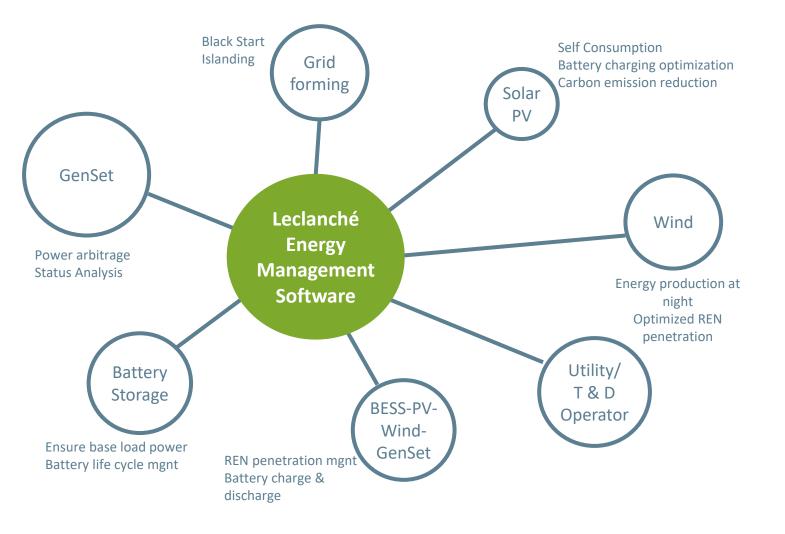


Smart Energy Management Software Architecture, the brain of the BESS

Leading stationary storage products & software

Energy Management System

- Smart Energy Management drives the Energy Transmission
- Multi-applications-Revenue Stacking
- Smart Energy Management guaranties base load dispatchable power from battery to grid
- Maximize the REN penetration vs. GenSet use
- Energy Management for EV fast charge stations







- Modular and scalable concept
- Plug & Play: easy to interconnect
- Simplified logistic
- Fast installation on site
- ► Integrated Battery Auxiliaries
- Reduced Carbon Footprint
- Optimized LCOE





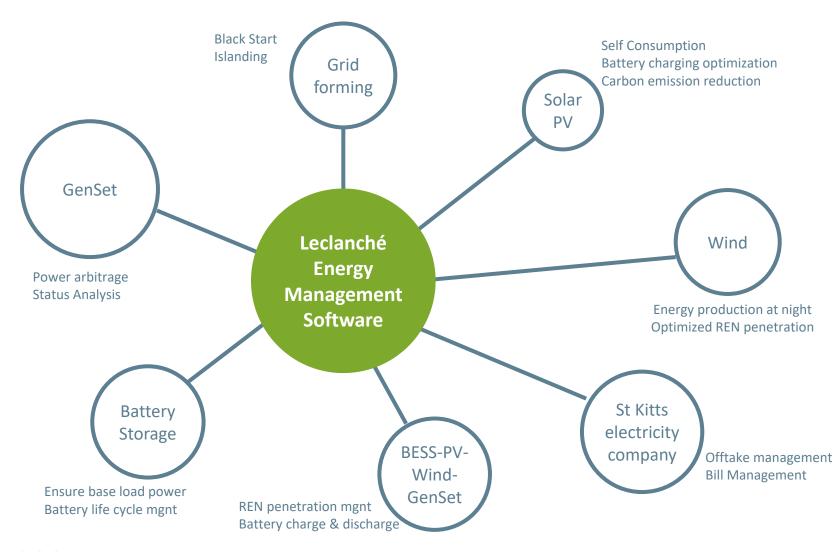


Different Blocks to Build LeBlock™





Enhancing renewable energy penetration in microgrids



Smart Energy Management guaranties **base load** dispatchable power from battery to grid

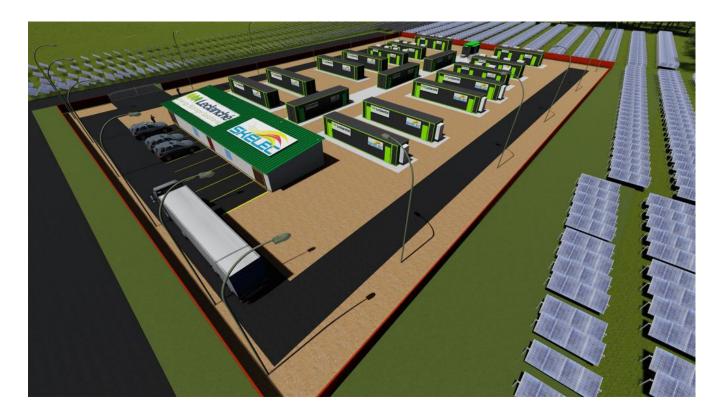
Al-enabled algorithms **optimizing** the green energy dispatch based on Time-of-the Day demand cycles to **maximize** Revenue

Maximize the REN **penetration** vs. GenSet use

Multi-applications-Revenue Stacking



St Kitts – the largest Solar + Storage project in the Caribbean



- > Solar PV 30 MW peak / 45MWh
- > 30% of the Island's baseload
- > \$70 M capitalization / 20-year PPA

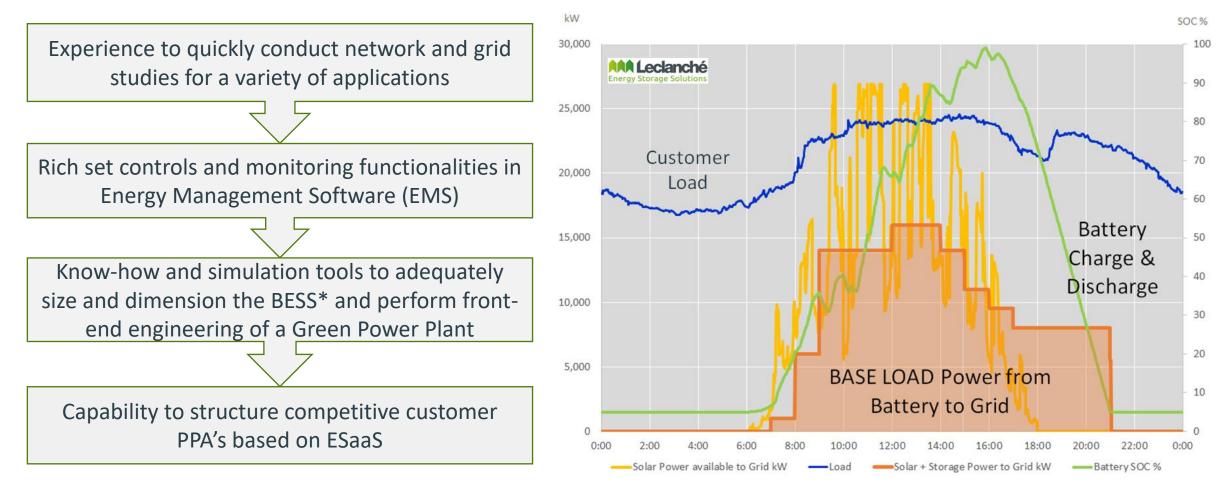


St Kitts prime minister Timothy Harris and Leclanché Bryan Urban at the groundbreaking December 15, 2020





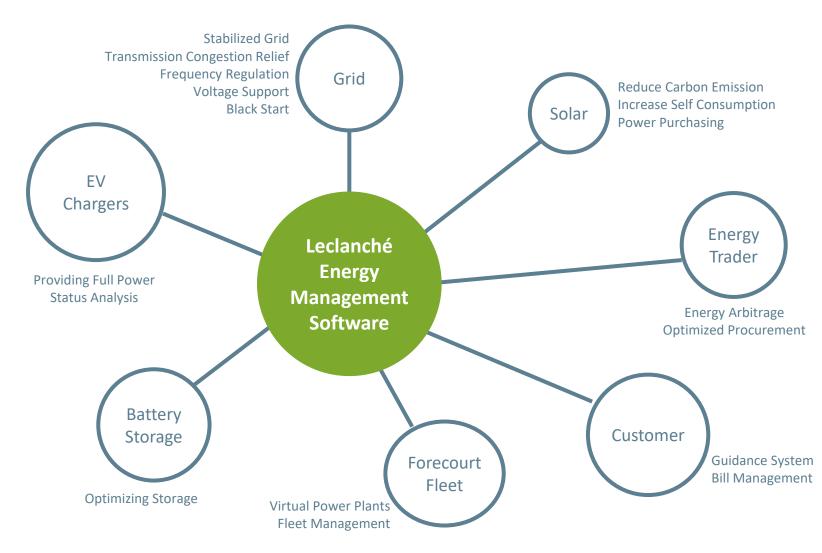
Building Caribbean's largest Green Power Plant: Solar+Storage Microgrid project in St. Kitts



*BESS – Battery-based Energy Storage System; PPA – Power Purchase Agreement; ESaaS – Energy Storage-as-a-Service



Enabling High Power Fast EV Charging



SmartEnergyManagementdrives the Energy Transmission

Al enabled algorithms **anticipating** demand cycles, energy production and procurement prices

Creating **VPPs** and Networks of e-Forecourts

With many networked charges the EMS becomes more intelligent, creating more revenue and customer **value**



Typical Fast-Charging site layout with LeBlock[™]





Solid-Base To Deliver Profitable Growth



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Solid base to deliver sustainable profitability

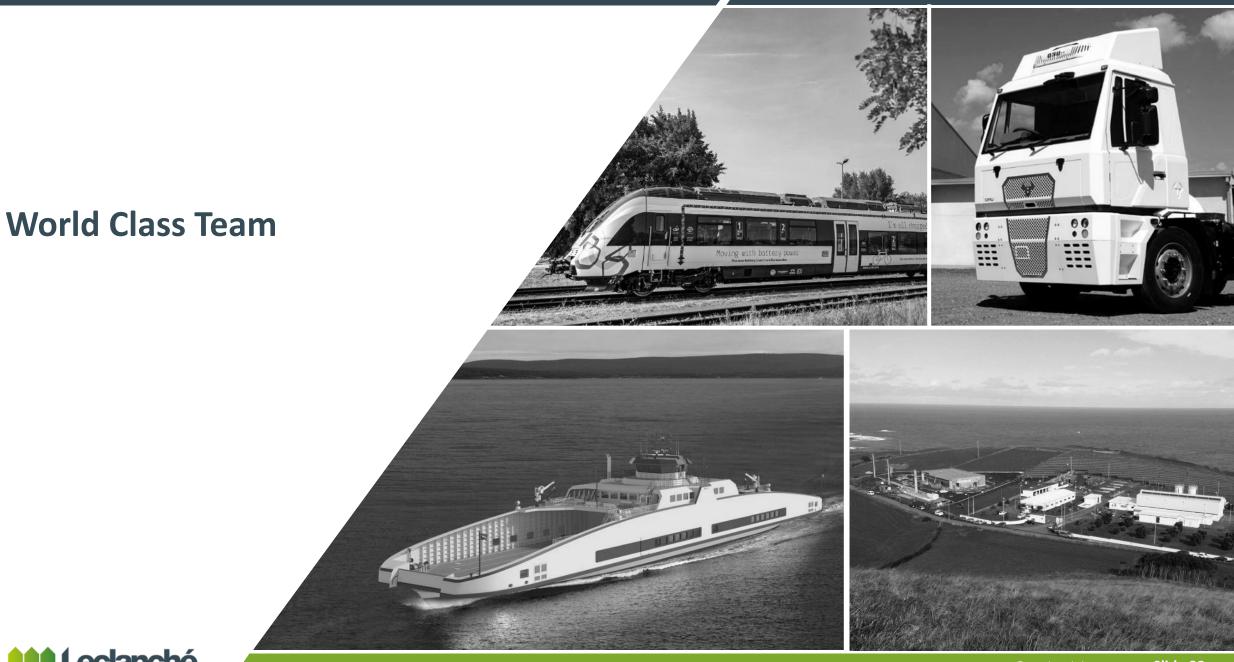
... more than USD 250M investment to reach a critical-size for cost competitiveness

Technology Leadership: simultaneous investment in Product Portfolio Expansion and Organizational Resources

Competitive Cost-base: leap-frog competitor's cost-base to secure good gross margins

- One of the highest breadths of inhouse technology ownership in the Industry: from Cells, Modules, Battery Packs & Racks to IoTenabled Fleet EV Asset Optimization Software Platform
- Industry leading Energy Management Software suite for a range of applications in renewable energy integration, grid ancillary services -----> extending to in-vehicle energy management unit
- Lowest cost per kWh Cells for Fleet EV combining high Energy Density and long-life Cycles
- More than tripling the production capacity to gain efficiencies
- Monetizing and gaining procurement-scale through licensing inhouse technologies to the Automotive sector





World Class Executive Leadership Team



Anil SRIVASTAVA CEO

Joined in 2014

- Fourteen years of senior executive experience, including board level engagements.
- Previously CEO of AREVA Renewables, EVP Alcatel-Lucent Global Accounts.
- MBA Wharton School of Business, USA

Energy Storage Solutions



Hubert ANGLEYS Chief Financial Officer

Joined in 2016

- Previously held senior roles such as CEO of Metalor Group, Financial Director at Alcoa & financial positions at Sicpa.
- Degree in Accounting, Business Administration and Law, France.



Phil BROAD EVP – Customer Management

Joined in 2018

- 24 years in tier 1 Automotive & Commercial Vehicle industry
- Previous roles include Global Account Manager at Honeywell
- BEng (Hons) System Engineering, UK



Pierre BLANC Chief Technology & Industrial Officer

Joined in 2000

- Previous roles at Leclanché: Head of R&D, Chemical Engineer working for client brands such as Varta and Panasonic.
- Member of management groups supporting Swiss and Germany national research programs.
- BA Mod. Chem Trinity College, Dublin



World Class Senior Leadership Team





Sylvain CHONAVEL VP Systems Engineering

Joined 2018

- Project Director Frazer Nash
- Engineering Director Whitfield Solar Ltd
- McGill University
- MBA Herriot Watt
 Ecole Nationale Supérieure des Mines



Gerardo GIMENO VP e-Transport

Joined 2019

- Sales Mgr Commercial & Off Highway Vehicles
- Managing Director Moldes Epila SA Specialsi Machinery.
- MBA ESIC Business & marketing School



Guillaume Clément VP Global e-Marine

Joined 2021

- 15 years international experience in Energy Management (FR, AUS, CN, NO)
- Various company-wide positions from project to sales through manufacturing and services
- Engineer Supélec, France, MBA IAE Rennes, France

Management: Previous Experiences















STABILUS

World Class Senior Leadership Team





STABILUS



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Thank You

Leclanché is on a clear path to deliver profitable growth.





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