







July 2021

Corporate Presentation





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

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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 an as needed basis.



Leclanche At-a-Glance



¹ Contracted Revenue = Backlog and framework supply agreements including general T&C / MOU / Long Term Supply Agreement. ² Scheduled to complete framework agreement in H2 2021.

² Based on IDTechEX Research Dec. 2020 (COVID Adjusted) ² LUX report (2019)



Proven Technologies, Industrial Maturity

Rich heritage and global reach



Cell Energy Density (Wh/kg)



>US\$250 million investment in R & D,

Engineering, and industrialization since 2007

*Energy Management Software

Vertical Integration Enables Greater Customization, Market penetration & Margin Advantage

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



*Energy Management Software

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





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









Strategic Customers and USD 500 million Contracted Revenue Underpin Growth

Existing & Long-term Strategic Partnerships with Leading OEM Customers







Click to see Leclanché eMarine movie

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

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Our technology is differentiated down to the cell level

Water-based Process for Battery cell Production

Energy savings compared to traditional solvent based

- Lower electrode drying temperature (50-60°C lower)
- No solvent recovery system (lower Capex and Opex)
- Reduction in humidity control space (70-80% reduction)
- Cell cost reduction of up to 10% compared to solvent based ⁽¹⁾

EU future sustainability requirements

Prepared for a circular and climate neutral economy

- Responsible sourcing of materials
- Minimum content of recycled materials
- Carbon footprint
- Performance and durability and labelling
- Collection and recycling





Leclanché cells will keep increasing cell energy while maintaining an extraordinary cycle life



Less cobalt in the cathode materials and highenergy materials will further reduce the costs per kWh



Materials with lower carbon footprint and energy-saving processing steps will make the batteries more sustainable



Energy Storage Solutions





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

Leclanché is already actively working on multiple hybrid fuel cell projects





Winning in the marketplace

Leclanché Battery Pack Comparison to Key Competitors

Our advantaged technology

	Marine		Commercial Vehicle	
	Leclanché MRS9	Competitor A	Leclanché INTEG-39 Energy HV	Competitor B
Design			Leclarché Leclarché Literto Congestionet	
Energy Energy Density	155 kWh 114 Wh/kg + 50%	124 kWh 76 Wh/kg	39.4 kWh 106 Wh/kg + 3%	25 kWh 103 Wh/kg
Cycle life (100% DoD*)	4,500 + 13%	4,000	4,500 Nearly 3 x	1,600
Dimensions (HxWxD)	2440 x 1236 x 440 mm	2241 x 865 x 738 mm	409 x 612 x 1266 mm	150 x 700x x 1700 mm
Weight	1,356 kg	1,628 kg	372 kg	238 kg







Leclanché Stationary Storage Solutions Credentials

- 150 MWh installed, targeting 1GWh by 2025
- ESaaS implementation expertise & experience
- EMS-enabled revenue stacking and extended battery life management
- Multi-platform design, integration, end-toend solution with LeBlock[™] modular system
- Positioned in high-growth markets such as fleet management, fast-charging, load displacement and off-grid expertise





Leclanché Stationary Storage Solutions





Trusted by Customers Worldwide

Renewable Integration and Grid Ancillary Services

Energy Storage Solutions



76 GWh

Of cumulative renewable energy throughput (Dec 2020)

Fast EV Charging Infrastructure Port Automotive Combined Onboard and Onshore Energy Storage solution for the first fully electric passenger/car ferry in North America DEMONDRA Maherst Island, ON, Canada

Leading stationary storage products & software





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



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



- > Solar PV 30 MW peak / 45 MWh
- > 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





Typical Site Layout







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











Solid base to deliver sustainable profitability

... more than US\$ 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 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



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







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





World Class Senior Leadership Team 4





STABILUS

ROLLS

Thank You

Leclanché is on a clear path to deliver profitable growth.





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Enhancing renewable energy penetration in microgrids



Energy Storage Solutions

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

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

Maximize the REN penetration vs. genset use

Multi-applications- Revenue Stacking

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Enabling High Power Fast EV Charging



Smart Energy Management drives the Energy Transmission

AI enabled algorithms anticipating demand cycles, energy production and procurement prices

Creating VPPs and Networks of e-Fourcorts

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

