





- India's largest battery manufacturer
- India's #1 automobile-related super category brand
- Market leader for more than 100 years
- Battery range from Cap Lamp to Submarine

www.exideindustries.com

Leclanché Energy Storage Solutions

- 100+ years of energy storage expertise
- Bringing German quality with Swiss precision to global markets
- Only listed pure play energy storage company in the world
- Equipped to deliver complete customer solutions

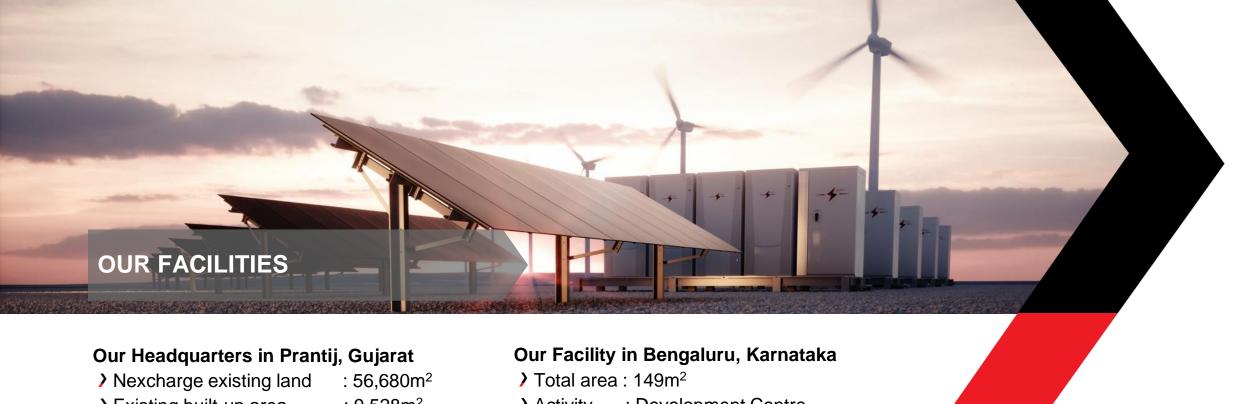
www.leclanche.com





We fast-track the world's transformation towards sustainable energy solutions





> Existing built-up area : 9,528m²

Our Li-ion Assembly Lines

- Pouch/Prismatic/Cylindrical cell to module
- Module to pack/rack
- Cell testing lab
- Prototype and pilot line

Activity : Development Centre

Located at RMZ Eco Space Tech Park

Our Capabilities

> Electronics and firmware development

Mechanical and Thermal design

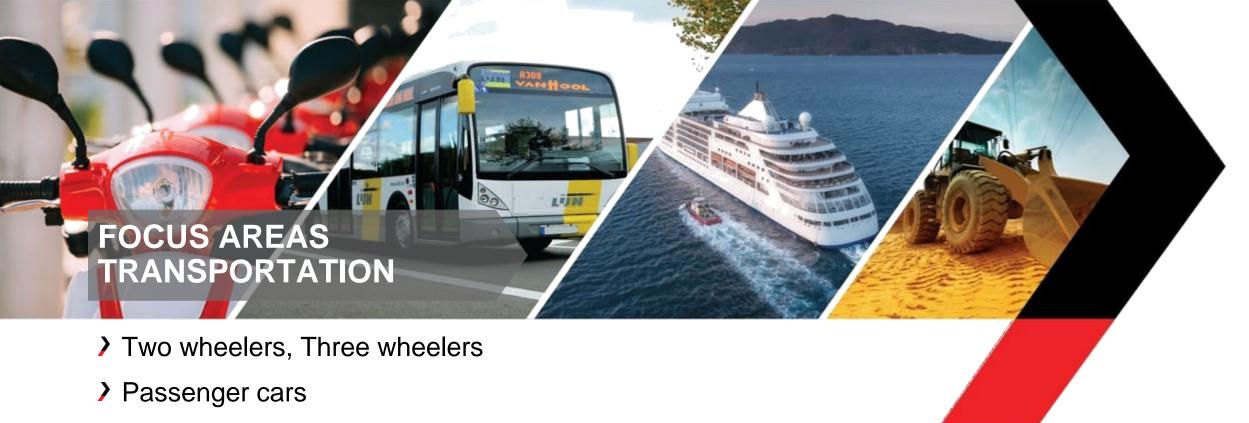
Software development



OUR VALUE PROPOSITION Quality **In-House BMS Competitive Scale Deep Design Manufacturing Expertise Competences** Deep design In-house BMS Automated High scale manufacturing capability providing giving ability to manufacturing for ensuring highest leading energy modify and competitive cost

- quality in compliance with industry standards
- Rigorous quality testing procedures at cell, module and pack level
- density, thermal stability and functionality
- Ability to provide application matched cells across form factors and chemistry
- customize and optimize performance
- Flexibility to add latest advanced features to match customer requirements
- for OEM and replacement market sales
- Competitive sourcing of cells via strategic sourcing relationships

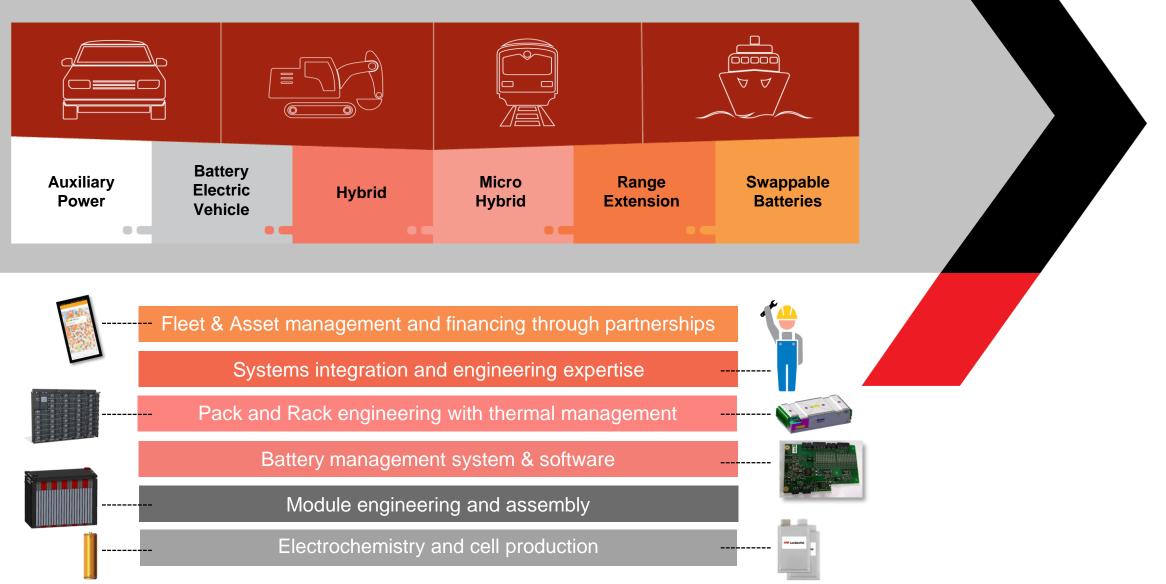




- > Buses, Trucks
- Marine
- Off highway equipment
- Rail
- Robots



TRANSPORTATION SOLUTIONS







COD: Oct-2015

- First wirelessly charged fully electric buses to enter public operation in Belgium
- Three Van Hool A308E buses equipped with an LTO battery delivered by Leclanché
- Project partners included Van Hool, De Lijn (Belgian bus operator) and Bombardier





COD: Q1-2017

- Minca project, hybrid mining vehicle equipped with M1-based G-NMC modules and BMS
- Services included design of battery pack









COD: Q4-2017

- Upgrade of traditional Swiss lake cruising vessel
- Use of dedicated marine battery solution
- · High power peaks and a need to operate in variable ambient conditions

COD: Q2-2016

- Battery system and integrated BMS for a demonstrator project of a fully electric high-speed commuter ferry
- LTO technology means batteries may be fully charged in as little as 10 minutes
- Battery capacity divided into two identical battery packs for redundancy











- Hybrid Power Generation
- Microgrids & Islands
- Renewable Integration
- > Residential ESS
- Street Lighting
- Telecom
- Transmission & Distribution (T&D)
- > UPS & Data Centre

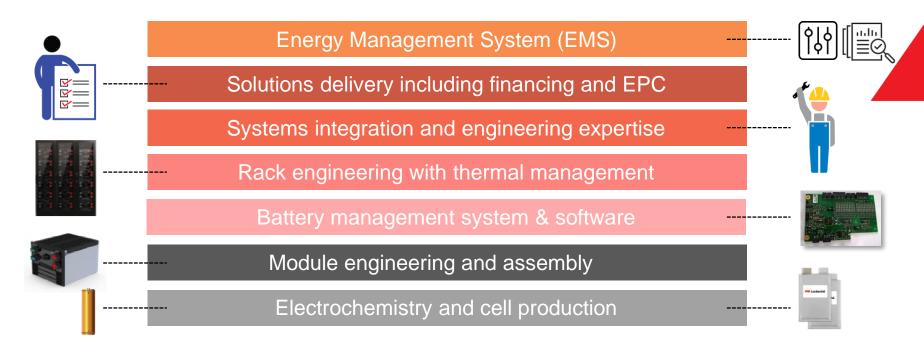


INDUSTRY & UTILITY SOLUTIONS

- Arbitrage
- → Asset life extension (T&D)
- > AT&C loss reduction
- Black start
- Demand response
- Diesel displacement
- > Peak shaving



- Grid congestion relief
- > Power smoothing
- Ramp rate control
- Seamless power backup
- > VAR control
- Frequency & voltage regulation







System: 500kWh LTO BESS

COD: Dec-2015

- Turnkey BESS for ancillary services, solar PV, solar integration, peak shaving, load management and fast frequency response
- 10-year performance warranty by Leclanché on its LTO batteries
- Largely co-financed by the Canton of Vaud





System: 53MWh G-NMC BESS

COD: Q4-2018

- Fast frequency response for grid reserve/ voltage control services
- 15-year performance warranty by Leclanché on its G-NMC batteries
- Partners include Deltro Energy and Greensmith with Leclanché providing development capital and arranging Swiss Export Credit (SERV)











System: 22MW/34MWh BESS

COD: Q2-2019

- Turnkey BESS to provide frequency control to the German primary control reserve (PCR) market
- 10-year BESS performance warranty by Leclanché
- 2 MW capacity built by Leclanché as a first phase, on BOT basis
- Inception of the facility in May 2019, with 22MW/34MWh capacity, with leading European energy company Enel
- Project partner and DSO: ENERTRAG AG

System: 3.2MWh LTO BESS

COD: Aug-2017

- Microgrid supplying power for 4,500 inhabitants; turnkey solution for energy storage plant and distribution management integrating solar PV, wind park and diesel genset technologies
- Increase in proportion of renewable generation used from 15% to 65% of annual consumption
- 20-year performance warranty by Leclanché on its LTO batteries









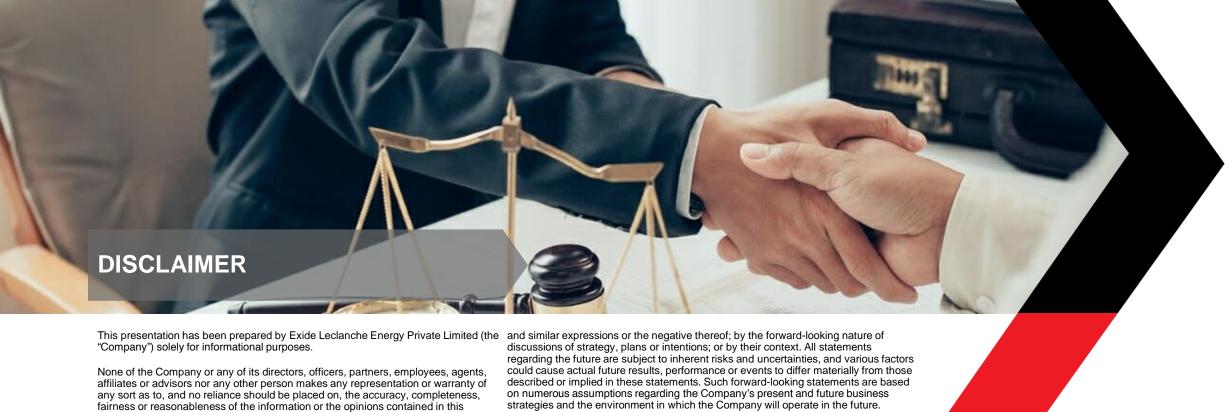
After-sales service	• 40,000+ distributors across India
Availing subsidies	Local manufacturing (Make in India)
Best cost/kWh, best TCO	Full technology ownership
Business risks	Dependable leadership spanning 200+ years
Eco-friendly solutions	Sustainable initiatives, like responsible battery disposal
Smooth supply chain	Localised presence, streamlined network
Technical issues	Customised & integrated solutions
Technological risks	Products with superior life





LET'S CONNECT FOR A POWER-PACKED PARTNERSHIP





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