



Battery solutions for EVs and stationary systems

m:access – Fachkonferenz Technologie

12. October 2023

Creating a sustainable future

“It is imperative that the world electrifies at the fastest rate possible to help overcome the challenges of climate change and energy security. It is important to us to play a significant role in this.”

- LION is a battery pack design and manufacturing business
- Our customers are in mobility and stationary storage
- Revenues: **2021** EUR 28M, **2022** EUR 54M, **2023e** EUR 55-65M
- We are well positioned for profitability as our revenue grow
- Partnership with Svolt for upgrading our battery pack with LFP and MNC+
- Listed on German stock exchanges
- Founded 2011; headquartered in Germany with manufacturing plant in Thuringia and R&D center near Munich, a dedicated sales office to capture growth in the US and a Battery Testing JV with TÜV Süd; 60+ employees
- Own OEM-tested and highly automated assembly lines, and delivered first battery packs to customers in May 2023



Where are we located in the electrification value chain?

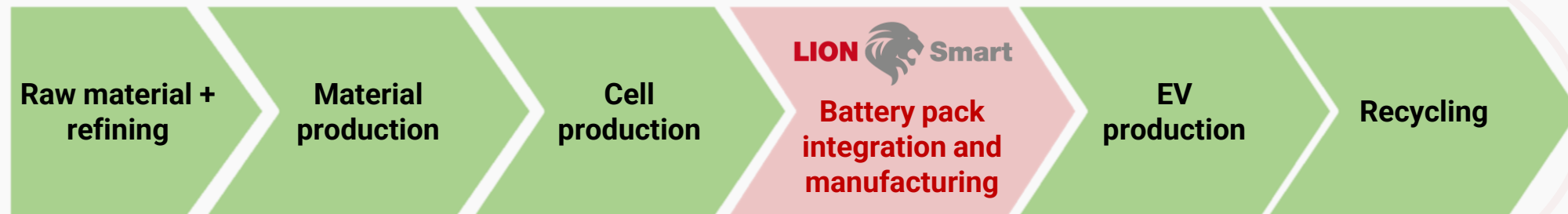
LION is in the middle of the battery ecosystem, but we think from end to end

Entire battery ecosystem*

Electric mobility

Battery as a service (BaaS)

Vehicle to grid (EV as ESS)



Electric vehicle services

Energy storage system

Charging infrastructure

Energy independence

Renewable energy

*McKinsey

Validated by customers across verticals

Applications in use

Use cases extend from single pack to multi-pack systems for (2-12 packs) up to large scale stationary systems (> 100 packs).

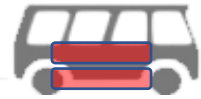
Single battery / Leisure / Other



Marine



truck

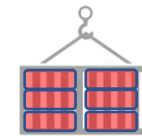


Smaller and larger buses



commercial

ESS (stationary storage systems)



container



facilities



Broad customer base

Battery Modules and Packs

Packs built of SE09

History



BMW i3 SE09 battery modules and pack

42.2 kWh/400V
Until 2022, 250,000 BMW i3 battery packs
built with two upgrades

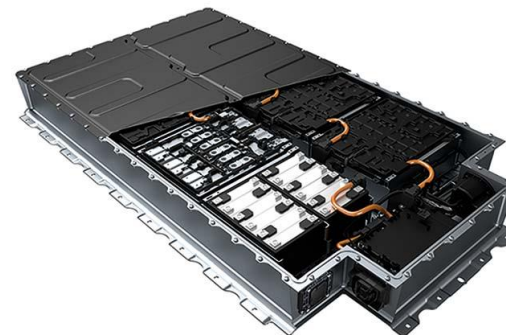
- ✓ Highest automotive **quality** and **safety** from premium OEM
- ✓ Fully **validated** and **tested**, no additional development required
- ✓ **Robust** and **safe, road proven** with more than 8 years of experience

LION Today

*MNC battery cells
(schematic)*



LION SE09 modules



LION SE09 battery pack

LION

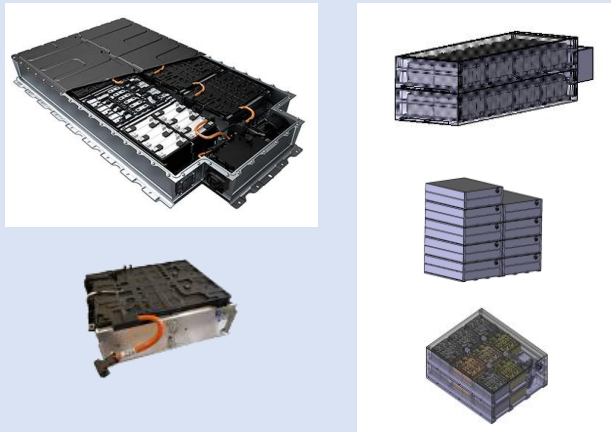
- manufactures now **LION SE09** battery modules and packs in new Thuringia production site,
- modifies and **improves** modules and packs and
- **develops new products** including
 - immersion based LIGHT Battery and
 - BMS (battery management system)

Future development

Expected technology steps

Gen 1

Current SE09 **MNC** battery modules and packs
- customized pack configurations -



Development in cooperation with SVolt

Gen 2
in progress
*2024

NCM 811



- With higher energy density

Gen 2*
in progress
*2024

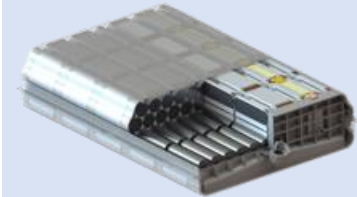
LFP



- Lower cost
- Longer cycle life

Gen 3
prototyping

immersion

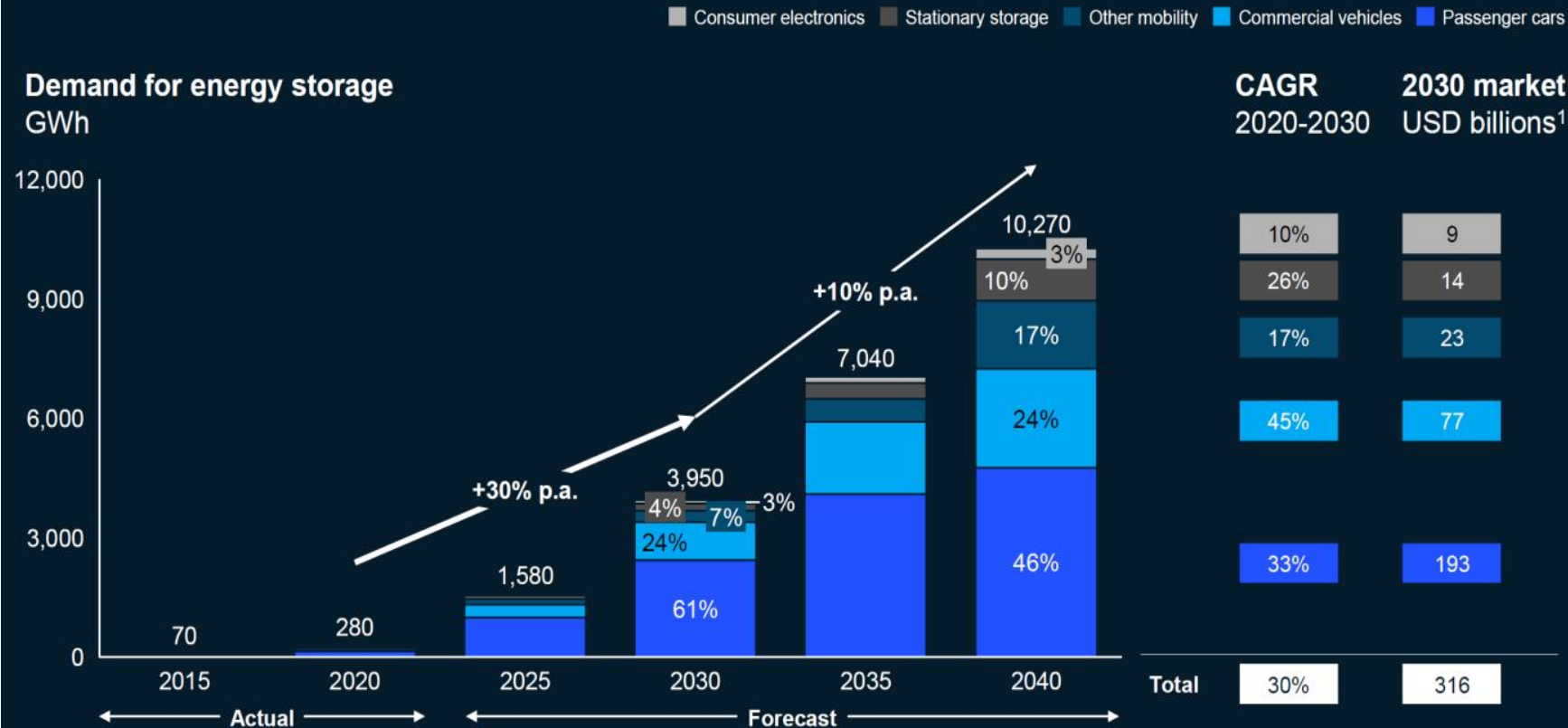


- Ultra-fast charging
- Performance cooling
- Progressive safety
- Flexible design

Adaption and development of Battery Management Systems

TAM - Market opportunity for LION

Demand for lithium-ion batteries will be driven by mobility applications, but other segments account for an important share



USD 14 B Stationary storage
 +USD 77 B Commercial vehicles
 +USD 23 B Other mobility

= USD 114 B+ TAM
 (Total accessible market for LION 2030)

This market is still at an early stage and evolving fast

*McKinsey

Group FY 2022 audited and selected HY operational figures



Group and LS/LSP

LION E-Mobility Group

(IFRS consolidated)

in M EUR	2021	2022
Revenue	28,433	53,317
Increase contract assets	0,144	-0,317
Other own work capitalised	0,331	0,758
Total output	28,908	53,758
Other operating income	1,488	0,761
Cost of sales	-25,940	-46,667
Staff costs	-3,057	-3,914
Other operating expenses	-2,629	-4,176
EBITDA	-1,230	-0,237
Depreciation	-0,461	-0,380
EBIT	-1,691	-0,617
Financial income	0,056	0,058
Financial expenses	-0,037	-0,142
Share of results of associates	0,143	0,043
EBT	-1,528	-0,658
Income taxes	0,359	-0,162
EAT	-1,169	-0,820

LION Smart & LION Smart Production

(selected HGB figures)

in M EUR	2023 1 HY
Sales	19,444
Cost of materials	-15,561
Personnel expenses	-2,683

- FY group revenue 2022 EUR 53.8M in line with guidance
- 1HY sales at EUR 19M
- Guidance 2023e 55-65M
- Start of own Thuringia production in middle of May
- 10M bank loan in Q2 2023 for adequate funding working capital and CAPEX
- Q3 start of Svolt development and supply cooperation for batteries (NMC, LFP), SOP second half 2024
- Undergoing significant investments in our sales force globally

LION E-Mobility AG shares fundamental data



- **Outstanding Shares:** 12,36 Mio
- **WKN:** A2QH 97
- **ISIN:** CH0560888270
- **Symbol:** LMIA / **Reuters:** LMIG.MU
- **Country:** Switzerland
- **Industry Sector:** Battery pack manufacturing and Electrical Engineering
- **Listings:** Xetra, Tradegate, München, Frankfurt, Hamburg (all Germany)
- **Annual General Meeting** LION E-Mobility AG 28.06.2023
- **Investor call schedule:** preliminary Q3 IFRS consolidated figures 15.12.2023

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