



# PRIME BATTERIES TECHNOLOGY

Custom-Engineered Technology for Battery Systems Production

*October 2025, Company Presentation*

**1GWh DELIVERED** FROM THE COMPANY'S ESTABLISHMENT

OPERATING A **2.3GWh FULLY INTEGRATED PRODUCTION FACILITY** STARTING WITH 2025

BECOMING **THE BIGGEST BESS INTEGRATED PRODUCTION FACILITY** IN THE EUROPEAN UNION

**RAISED FUNDS UP TO DATE** OF APPROXIMATIVELY **EUR 180MIO**, EUR 90MIO AS DEBT AND EUR 90MIO AS EQUITY

**RECENTLY ATTRACTED NEW EQUITY PARTNER** – GERMAN GROWTH CAPITAL FUND

GOING FOR ADDITIONAL **6GWh PRODUCTION CAPACITY** BY 2029

# HIGHLIGHTS

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- | Fastest growing European Union company in the BESS segment, becoming a market leader in Large-Scale BESS projects.
- | Vertically integrated operational factory of 2.3GWh capacity, transitioning to 8.3GWh facility by 2029.
- | Operates latest energy storage technology, bespoke manufacturing concepts with available tailored chemistry, such as NCM // LMnFP // LFP // LMX.
- | Developing large-scale sustainable energy systems across Europe, based on proven technology with track records of commissioning since Y2018 and rigorous *BESS certification standards*.
- | Integration with all proven inverter manufacturers in the European Union, products available in 74 countries around the world, and Service Partners in +20 countries.
- | Large capacity projects already commissioned, authorized by all required authorities, accepted by grid operators, currently in use.

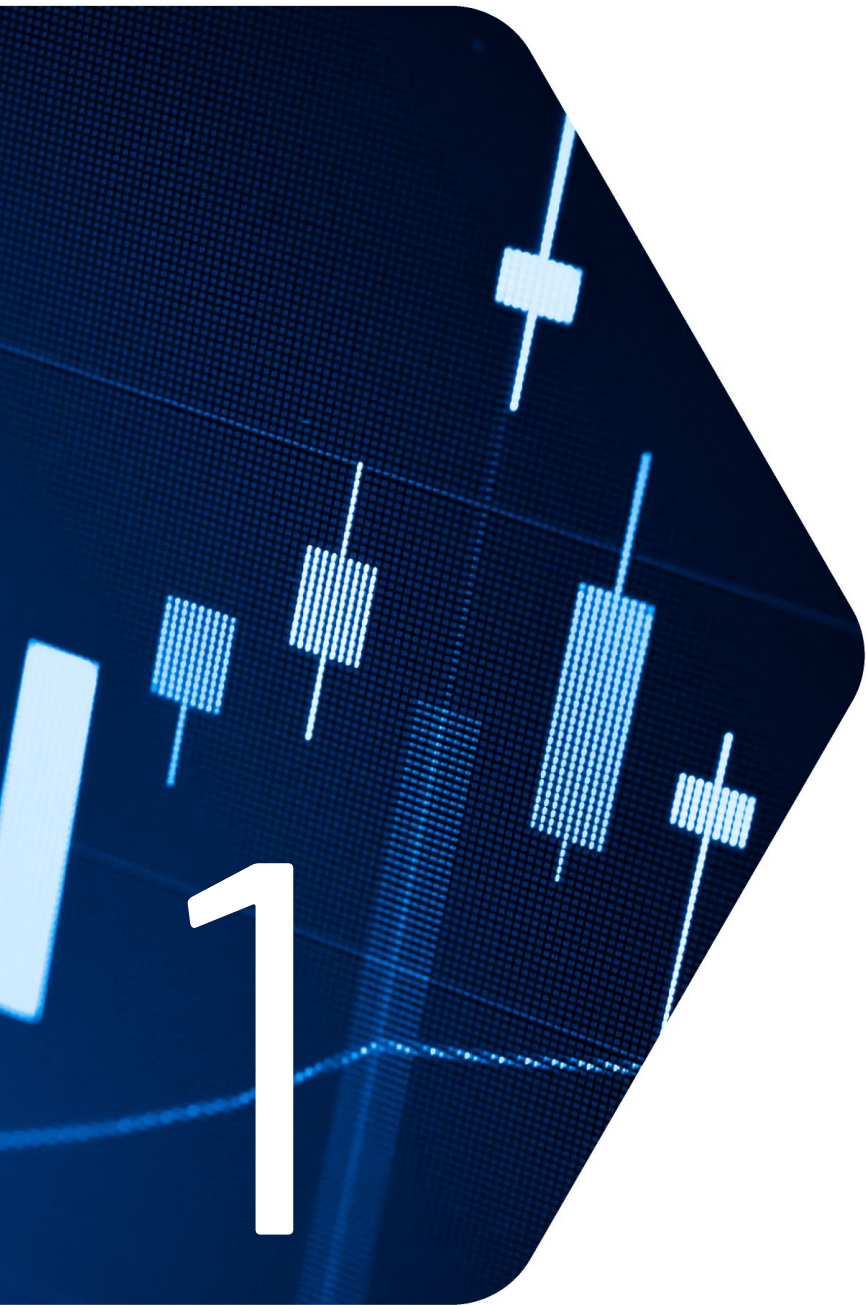


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# MARKET CONTEXT

# The 21<sup>st</sup> Century New Energy Revolution

Change is inevitable...



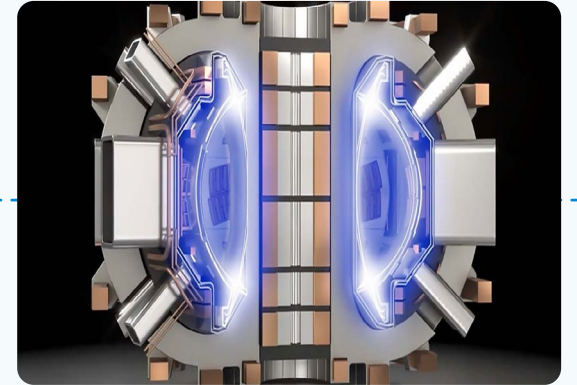
1800 - 1900



1900 - 2000



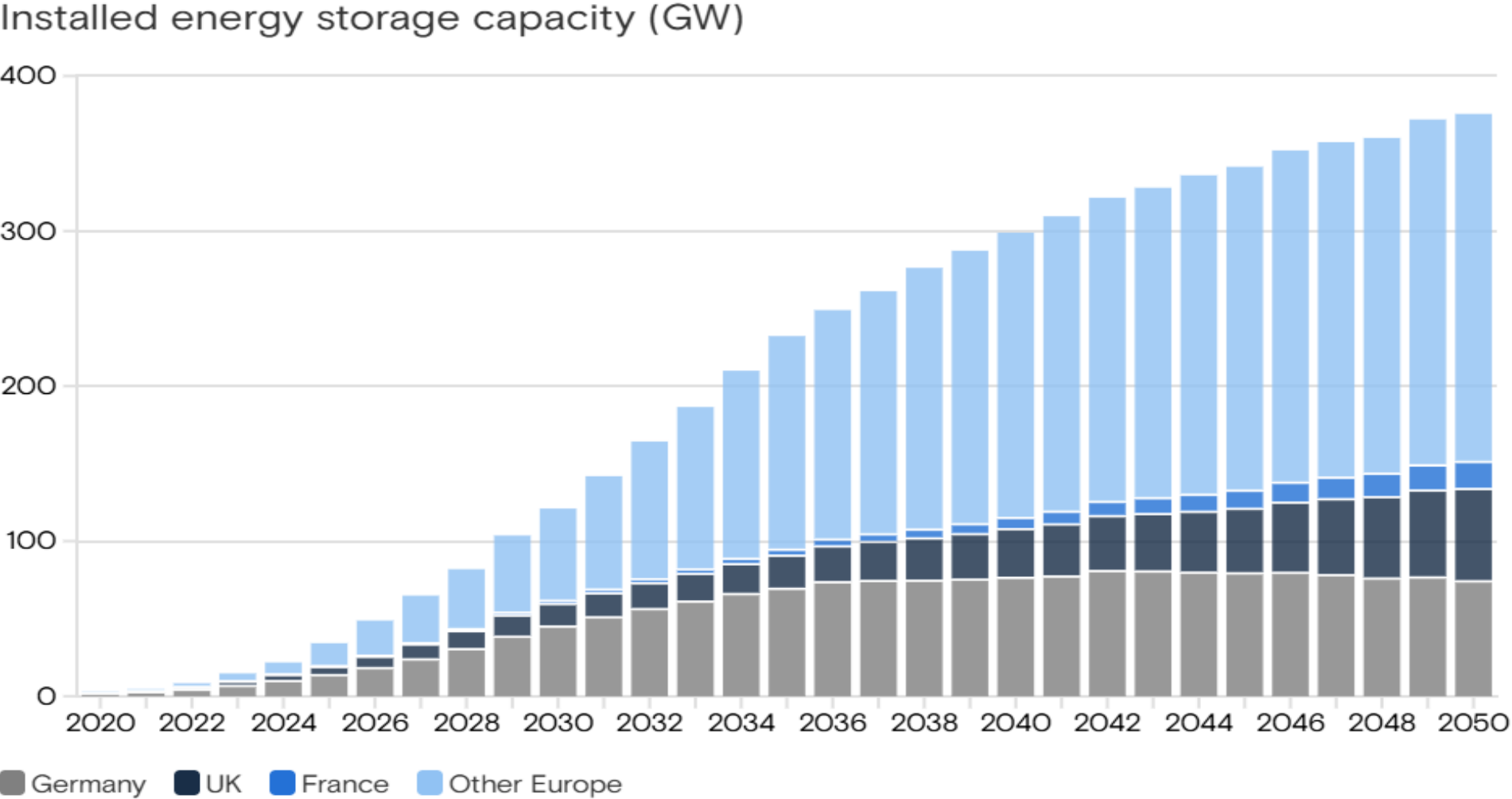
2000 - 2100



2100 - ...

therefore, we believe that **every 100 years humanity changes the primary source of energy:** coal, oil, renewables, fusion...

# European Energy Storage Capacity Is Expected to Grow Rapidly Until 2050



Source: BloombergNEF New Energy Outlook 2024  
2024 - 2050 are forecasts



# CONCLUSION

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**RENEWABLE ENERGY** WILL BECOME THE PRIMARY SOURCE OF ENERGY  
IN THE 21<sup>st</sup> CENTURY.

IN ORDER TO SOLVE ITS INTERMITTENCY, **WE NEED STORAGE.**

MOST EFFICIENT ELECTRICAL ENERGY STORAGE ARE **BATTERIES.**





**WHO**  
**WE ARE**

# WHO WE ARE

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- | We are passionate about technology, especially bespoke energy solutions.
- | We believe in energy independence on a large scale.
- | More than believers, we are doers. We act and adapt to every project, local or international.
- | We envision a world where clean energy is abundant, accessible, and affordable for all.

# STRENGTHS



**Manufacturing from Li-Ion active materials** batteries cells used in turnkey BESS projects, low volume vehicle and industrial segments.



**Vertical integration and flexible chemistry** ensures high quality at every stage of production and tailor-made solution for our customers.



**High integration with grid codes**, solving issues of intermittency and grid balancing.



**Global Performance warranties & EU Certifications for BESS and Automotive** (UN ECE R100 and UN ECE R10).



**Green producing process** - we use renewable energy in the manufacturing of BESS helping to create a **cleaner, more sustainable future** for our planet.

# FOUNDERS AND KEY SHAREHOLDERS



Battery Energy Storage Solutions

**ADRIAN  
POLEC**

CHAIRMAN  
OF THE BOARD

- Main sponsor of the initial R&D project and co-founder of the company;
- +17 years' experience as serial entrepreneur;
- Experienced in scaling up companies in different fields - chemical production, construction, hospitality, real estate and IT segments.

**VICENTIU  
CIOBANU**

CHIEF EXECUTIVE  
OFFICER

- Leader of the initial R&D project and co-founder of the company;
- Leading the development process, from initial concepts to launching and iteration of +20 distinct products;
- Technical background in electrochemistry, electronics and mechanics.



- founded in 2012 to deliver the game changing rechargeable battery technology for the electrification of mobility;
- publicly-owned company listed on the South Korean Stock Exchange;
- founders have been working in Li battery industry for decades including Samsung SDI and A123 systems;
- key roles to develop NMC or LFP batteries and set up worldwide gigafactories.



InnoEnergy

Knowledge Innovation Community

- established in 2010 and supported by the European Institute of Innovation and Technology (EIT);
- brings people and resources together, catalyzing and accelerating the energy transition;



**T2Y | Capital**

- Munich-based investment firm providing Growth Capital for Green Tech companies with the potential for significant scale-up;
- Pursuing attractive and sustainable investment yields for investors. Transition to Yield;
- The T2Y Capital team combines strategic, industrial and financial expertise to match the multidimensional needs of their investments

**Note:** ongoing administrative procedures for registering T2Y shareholder's position





**WHAT**  
**WE DO**

# WHAT WE DO

## Diversified products offer

### Battery Energy storage systems (BESS):

- | Li-Ion Home Energy Storage;
- | Rack Storage Solutions;
- | Containerized Storage Solutions.

### Industrial:

- | Forklift Battery Pack;
- | Rack Battery Pack.

### Automotive *(highly customized, low volume solutions)*

- | Li-Ion Battery Packs for electric vehicles;
- | Battery packs for electric and hybrid boats.



## 2.3 GWh Production Facility

- | Product certification achieved
- | Building **factory add-ons** for increasing efficiency and production capacity
- | **Incorporating knowledge** based on last 5 years of production experience
- | **Modular production**, allowing for fast scale-up
- | **Consolidating market position** and achieving new milestone in delivered production

## 6 GWh facility project kick-off

- | Securing land and applying for required construction permits
- | Assessing equipment producers and screening for alternatives
- | Building the financing structure and investment timeline of the project

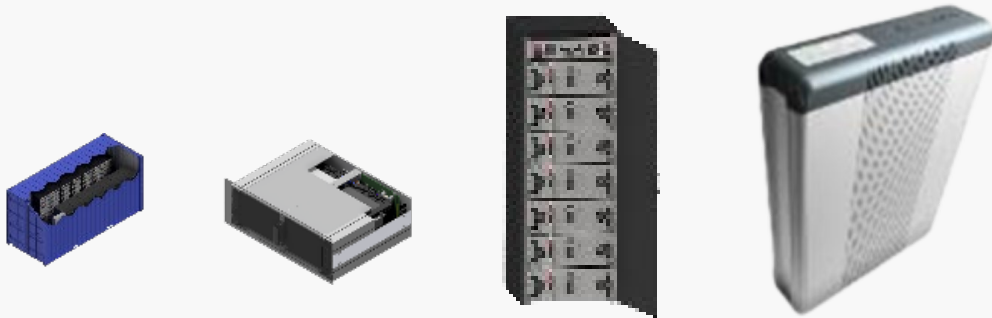


# KEY MARKETS

## Energy Storage Systems (ESS)

Types of customers:

- Industrial Services
- Construction

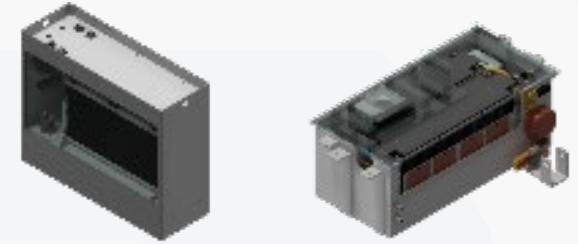


- **Stationary applications**, from home to grid, including renewable energy integration to back-up applications and grid services
- **Different capacities and sizes** engineered for on-grid and off-grid operations – the power of modularity
- Customers in this segment seek **turnkey solutions and performance warranties**, a key segment for Prime's vertically integrated products
- **Remains a key focus of Prime as products generates highest revenues** due to quality control over all production stages and customizable solution

## Industrial

Types of customers:

- Industrial Services
- Construction

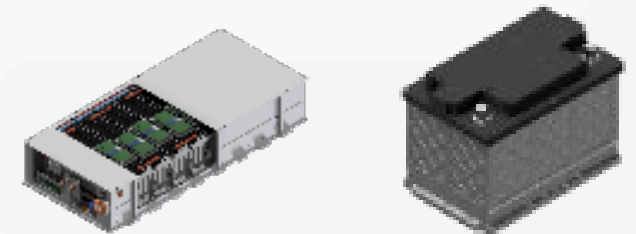


- Includes electric machinery, forklifts, robots, charging stations, mobile power, UPS
- Products have a **small footprint and customizable voltage range** and energy capacity
- Prime can **tailor products** to meet all types of load requirements

## Automotive

Types of customers:

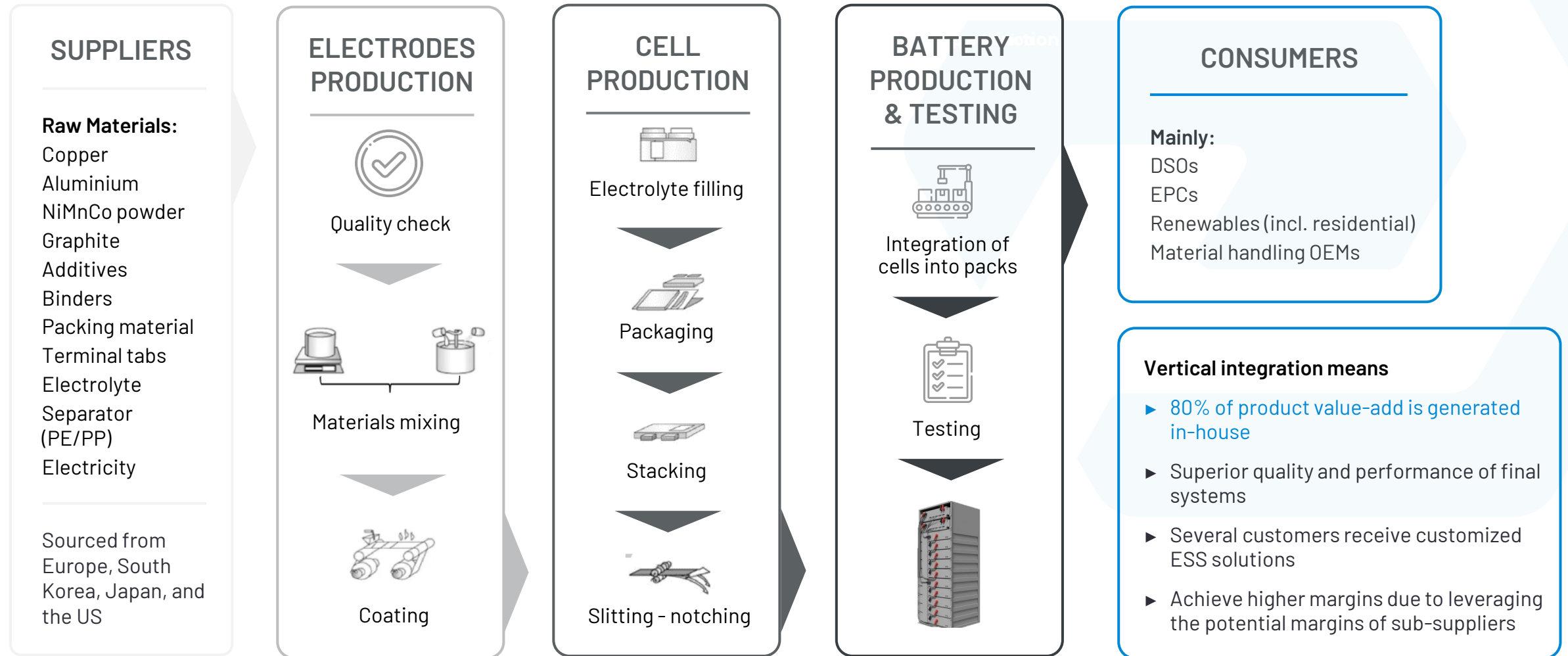
- EV manufacturers



- Highly customized, low volume solutions
- Product specifications are **safe, reliable, eco-friendly and maintenance-free**
- **Market already saturated with players**, with the majority of gigafactories in Europe (operational and planned) focused on EV battery production

# 2 GWh Production Facility, Vertically Integrated

## Value chain and production flow





# Advanced Battery Management System

For preventive maintenance and monitoring of the battery health

## A Battery Management System (BMS) is imperative to optimize performance

Despite many technological advances, the chemistry mix of **Li-Ion batteries remains susceptible to certain risks** such as overheating, over-voltage, deep discharge, over-current and pressure or mechanical stress.

As high-performance battery technologies are being developed with increasing energy and power densities, it is **essential to collect data** to gain **insights into product performance**.

Data collected can be used for **remote control of products for preventive maintenance** at the system level.

The **BMS is useful to:**

- | Collect key measurements and data
- | Monitor real-time battery performance and life
- | Assess service requirements or replacements
- | Prevent malfunctions or interruptions of the system
- | Optimize battery performance and quality

## Proprietary technology capable of measuring several key metrics

Prime's proprietary BMS software provides high accuracy measurement of several key metrics:

- | Cell Voltage, Pack Voltage, Undervoltage, Overvoltage
- | Module Temperature, Environment Temperature
- | State of Health, State of Charge, State of Discharge
- | Fuse Status, Contactor Status, Pre-charge Status

In the process of product development, two platforms were achieved: **Industrial BMS** and **Automotive BMS**.

*Industrial BMS:* rated for 1500V, developed according to SIL-3 and following NIS/2.

*Automotive BMS:* rated for either 48V or 800V, development according to ISO 26262, achieving ASIL-C and targeting further developments into ASIL-D. The 48V platform follows LV-148.

Slave controller for **battery** monitoring

Master controller for **energy management system**



# Competitive Advantage



- | Design and build tailored solutions
- | 24/7 maintenance service offered
- | EU wide on-place maintenance assured in 3-5 days
- | Proven round trip efficiency 95-97%
- | Certified solutions (e.g. BMS, EMS) validated with grid operators
- | No security risk (no Chinese component within the system)
- | Fully integrated producing capacity (from cell production to system assembly) allowing the control over the entire production process, including factory acceptance tests
- | Medium price

## Other EU suppliers

- | Standardized containerized products
- | Limited maintenance services offered
- | Limited or no maintenance on-place
- | 90-95% round trip efficiency
- | Certified solution validated with grid operators
- | Low security risk
- | Cells/modules imported from other production facilities (only assembly activity realized in EU)
- | Medium price

## Chinese suppliers

- | Standardized containerized products
- | Limited or no maintenance services offered
- | No maintenance on-place
- | 85-90% round trip efficiency
- | Uncertified solution, to be validated with grid operators
- | Medium-High security risk
- | Containerized imported solution
- | Low-Medium price





# PRODUCTION FACILITIES

# 2.3GWh Operational Production Capacity



- | **Total investment budget:** EUR 250M
- | **Construction:** Finalized
- | **Equipment:** Modular production allows for fast scale-up.
- | **Personnel:** Major equipment supplied by the **same manufacturer** used for existing factory, therefore **existing staff are already trained and experienced** in operating the equipment.
- | **Operations:** Operational starting with **June 2025**. Existing flows and processes have been revised as to internalize production processes and services, optimizing cost structure and production output.

Item	Measurements
Land area	20,000m <sup>2</sup>
Office building	500m <sup>2</sup>
2.3 GWh Factory with new storage building	15,000m <sup>2</sup>
Testing & Certification building	1,200m <sup>2</sup>
Building reconverted to production services	3,800m <sup>2</sup>





# **ANNEX**

## IMPLEMENTED PROJECTS

# Projects without disclosure acceptance

And/or in progress

BESS Stand Alone (Romania):  
2 x 10 MW / 20 MWh (2 locations) Y2025

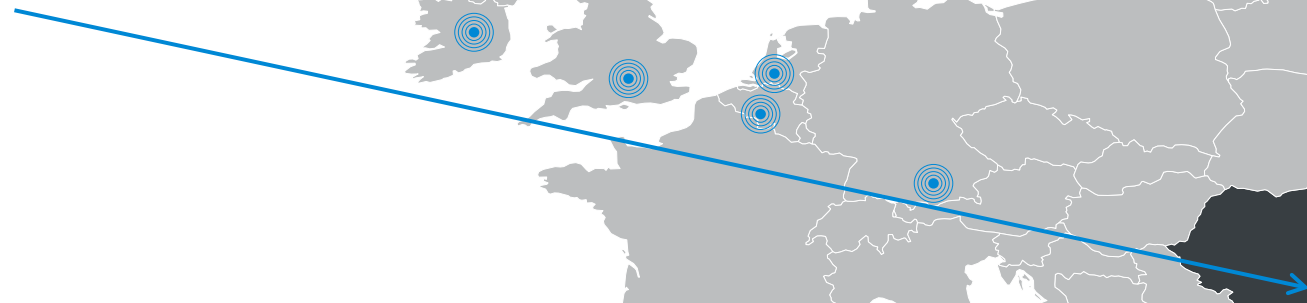
BESS Stand Alone (Romania):  
122 MW / 250 MWh Y2025

PV + BESS (Romania):  
18.48 MW / 43.4 MWh Y2025

Wind + BESS (Romania):  
7.5 MW / 14.8 MWh Y2025

BESS Stand Alone (Germany):  
14 MW / 22 MWh (Y2025)

PV + BESS (Italy):  
62 MW / 324 MWh (Y2025 - Y2026)



# ESS projects brought into use

Monsson - 2023/2024

## 30 MW / 72 MWh

**Location:**

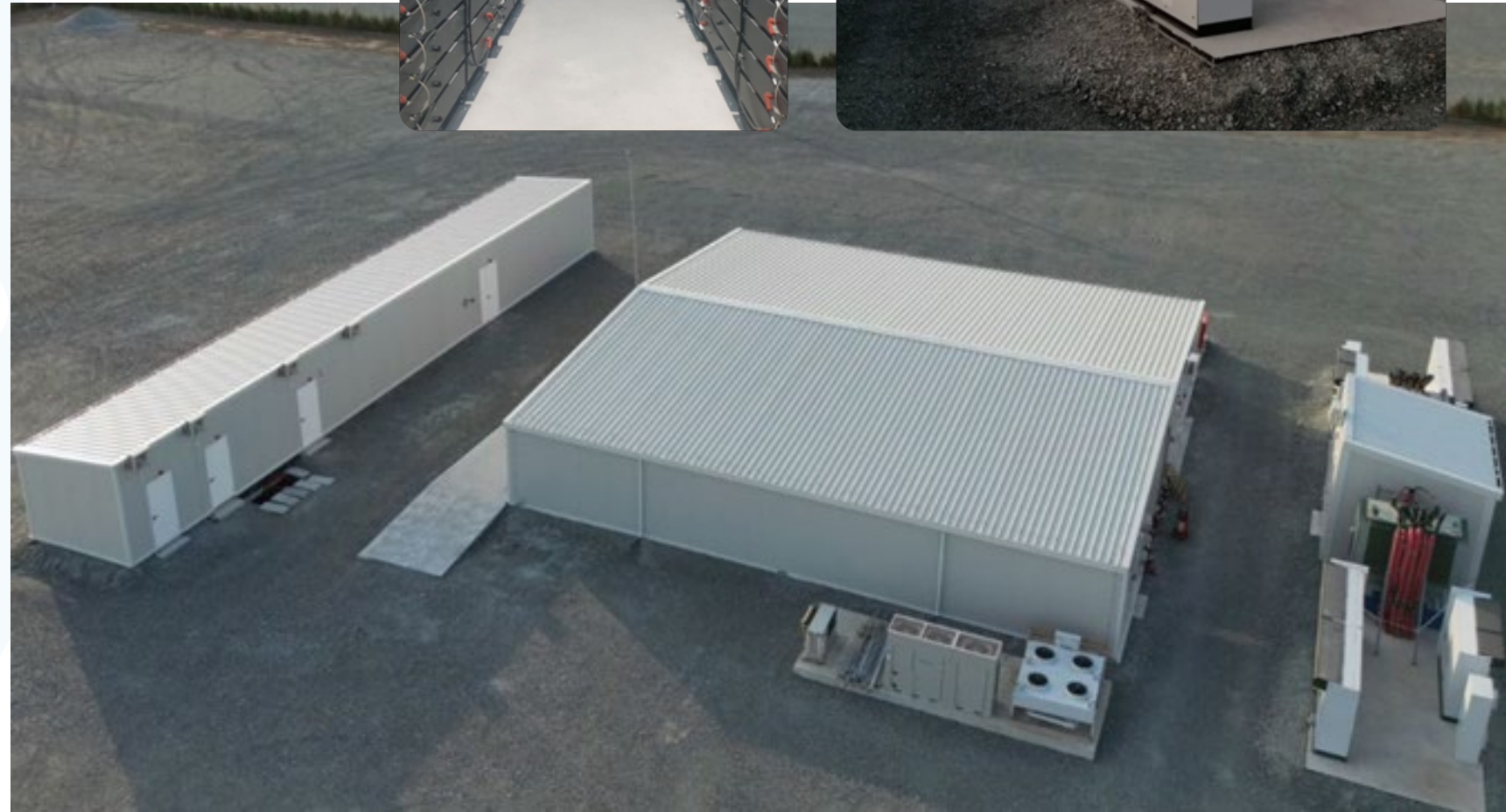
South-East of Romania

**Plant type:**

Hybrid (PV + Wind + BESS)

**Application:**

Ancillary grid services, Balancing market





# ESS projects brought into use

Iberdrola - 2023

1 MW / 7 MWh

**Location:**

Spain

**Plant type:**

Stand-alone

**Application:**

Balancing market





# ESS projects brought into use

RET/Strukton Infrastructure - 2024

1.6 MWh delivered / 2.2 MWh new order

**Location:**

The Netherlands

**Plant type:**

Stand-alone

**Application:**

Grid support





Battery Energy Storage Solutions