

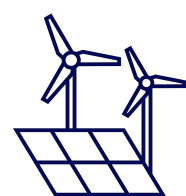
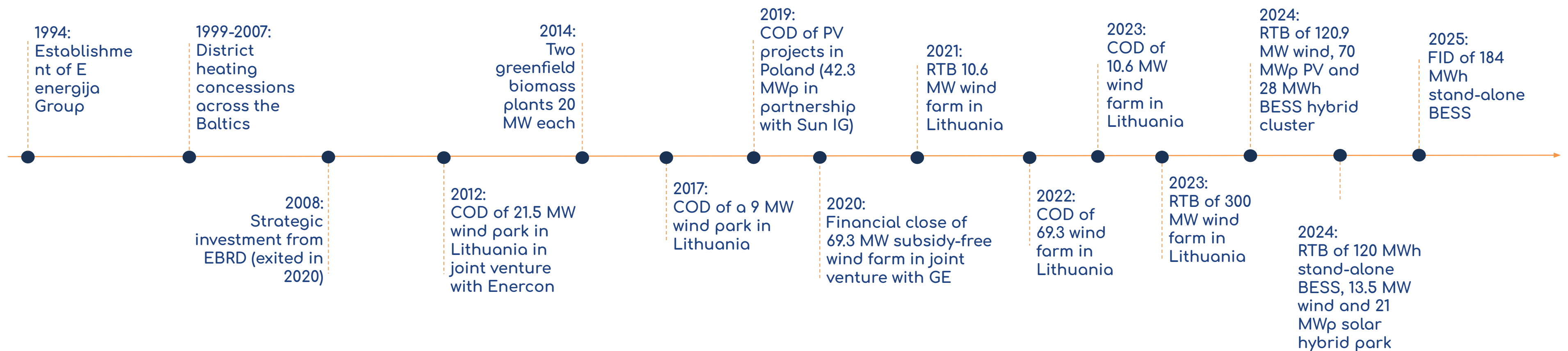


Energy Storage Solutions
from Integration to
Optimization

E energija Legacy in Renewable Energy

History and Group overview

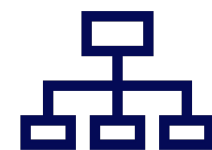
- Founded in 1994 as a pioneer within the modernization of heat generation through district heating networks
- E energija Group has over the past 10 years become a reputable developer for greenfield wind and solar projects in Lithuania, Poland, and Ukraine
- Has built a successful track record of partnerships with leading international renewable energy companies



Portfolio of over 1000 MW of wind, solar and hybrid under development



100+ experienced professionals



28 companies



2,500 ha of biomass plantations in Lithuania



BESS solutions for the Baltic region

↘ Our Energy Storage



We scope, design, build, integrate, commission, and service utility scale energy storage systems.

As your one-stop solution provider, NordNest manages every detail, from initial consultation to ongoing maintenance and revenue optimization.



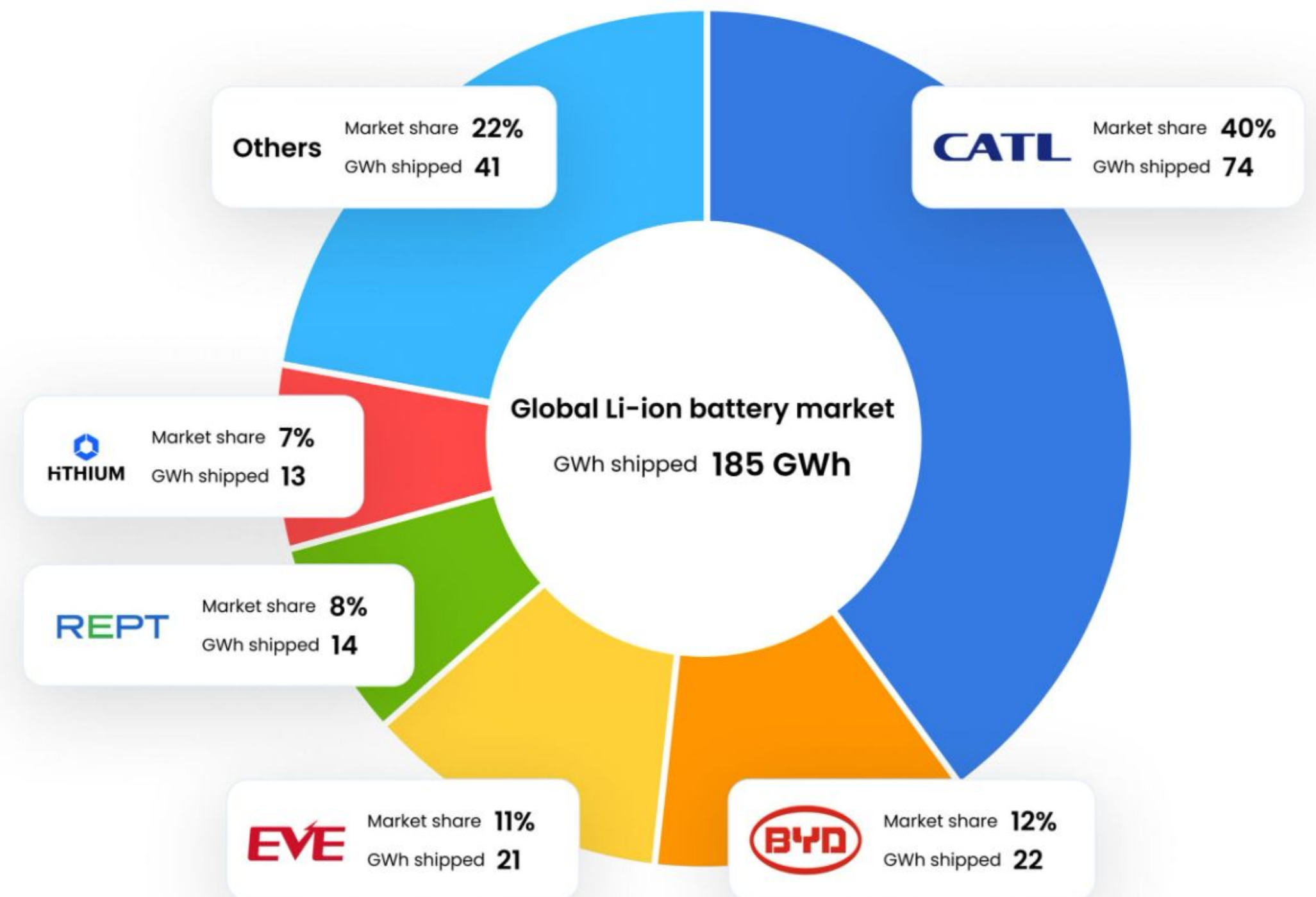
Energy Storage Market

CATL Leads LFP Battery Market

CATL's Leadership in ESS:

CATL maintains its dominant position with a **43% market share** in the global energy storage systems (ESS) market, delivering over **110 GWh** globally in 2024.

Global market share Li-ion battery makers 2023



Power Conversion Systems (PCS)

Power Electronics as our Preferred Partner

Risks of Chinese PCS:

- European governments are discussing **potential bans** on Chinese PCS and **software integration**, which could impact supply chains

Power Electronics (Spain):

- A **European leader** with over **30 GW** of installed ESS capacity and **60% market share** in the U.S.
- Record-breaking **\$1.2 billion revenue** in 2023, with **75% growth**.
- Known for **Twin Skid solutions** and trusted for **secure, large-scale projects**

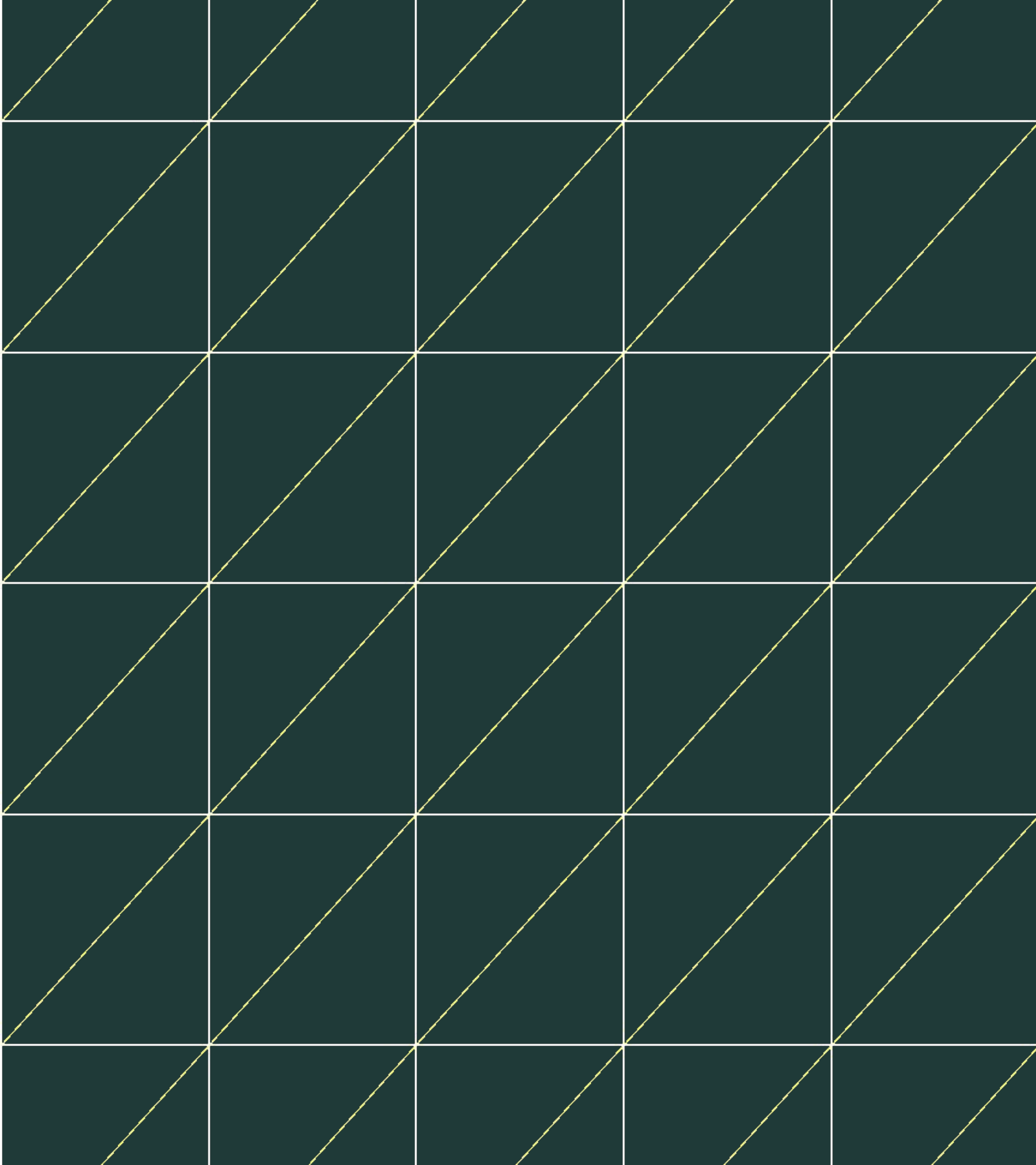
Current Track Record





NordNest Energy Storage Solutions

Our batteries provide essential services at various stages of the power system, enhancing stability, efficiency, and reliability from generation to consumption.



↘ CATL Battery Options

EnerC Series:

- Suitable for outdoor installations with robust environmental resistance.
- Commonly used for large-scale projects, 3.72MWh and 4.07MWh+.
- Designed for 2-hour discharge durations.

EnerOne Series:

- Compact indoor solutions ideal for containerized systems.
- Provides 0.372MWh or enhanced 0.407MWh
- Offers scalable configurations for 1-hour discharge durations.

EnerX and EnerS Series:

- Large-scale containerized systems.
- High-energy models, delivering up to 5.6MWh (EnerX) and 6.0MWh (EnerS).



Plug-and-Play Energy Storage Solution

NordNest Modular Energy Storage Unit

Key Specifications:

- **Power Output:** 100kW per unit, delivering reliable and consistent energy.
- **Battery Capacity:** 232kWh, leveraging CATL LFP cells for safety, stability, and long lifespan.
- **Voltage:** Grid-ready with 400V AC output.

Scalability:

- Parallel connection of up to 5 units for a total of **500kW output** and over **1MWh capacity**.

Integrated NordNest Software and Controls:

- **Proprietary EMS** for real-time monitoring, smart controls, and seamless operations.
- Full integration with **NordPool** markets and compatibility with third-party optimizers for revenue maximization.

Key Advantages:

- Plug-and-play design for easy deployment and reduced installation costs.
- Supports applications like **peak shaving**, **frequency regulation**, and **energy arbitrage**.



↘ Mid-Scale Medium Voltage Energy Storage System

Key Specifications:

- **Power Output:** 1.5MW, scalable up to 6MW with modular configurations.
- **Voltage Connection:** Compatible with 6–35kV medium voltage grids.
- **Battery Options:** CATL LFP batteries supporting 1–4 hours of scalable energy storage.

Advanced Controls:

- Proprietary **NordNest EMS**, compatible with Litgrid and ESO networks.
- Integrated with balancing markets (**FCR, aFRR, mFRR**) and wholesale energy trading platforms.
- Supports third-party optimizers and aggregators for revenue maximization.

Core Advantages:

- Scalable, modular design for easy installation and flexibility in project sizing.
- Fully optimized for utility-scale applications and solar integration.



NordNest Large-Scale Medium Voltage Energy Storage System

Powered by Power Electronics

Configurations:

- **4.4MW Single Skid:** Compact and efficient for smaller utility projects.
- **8.8MW Twin Skid:** Scalable and modular for large-scale deployments.

Key Features:

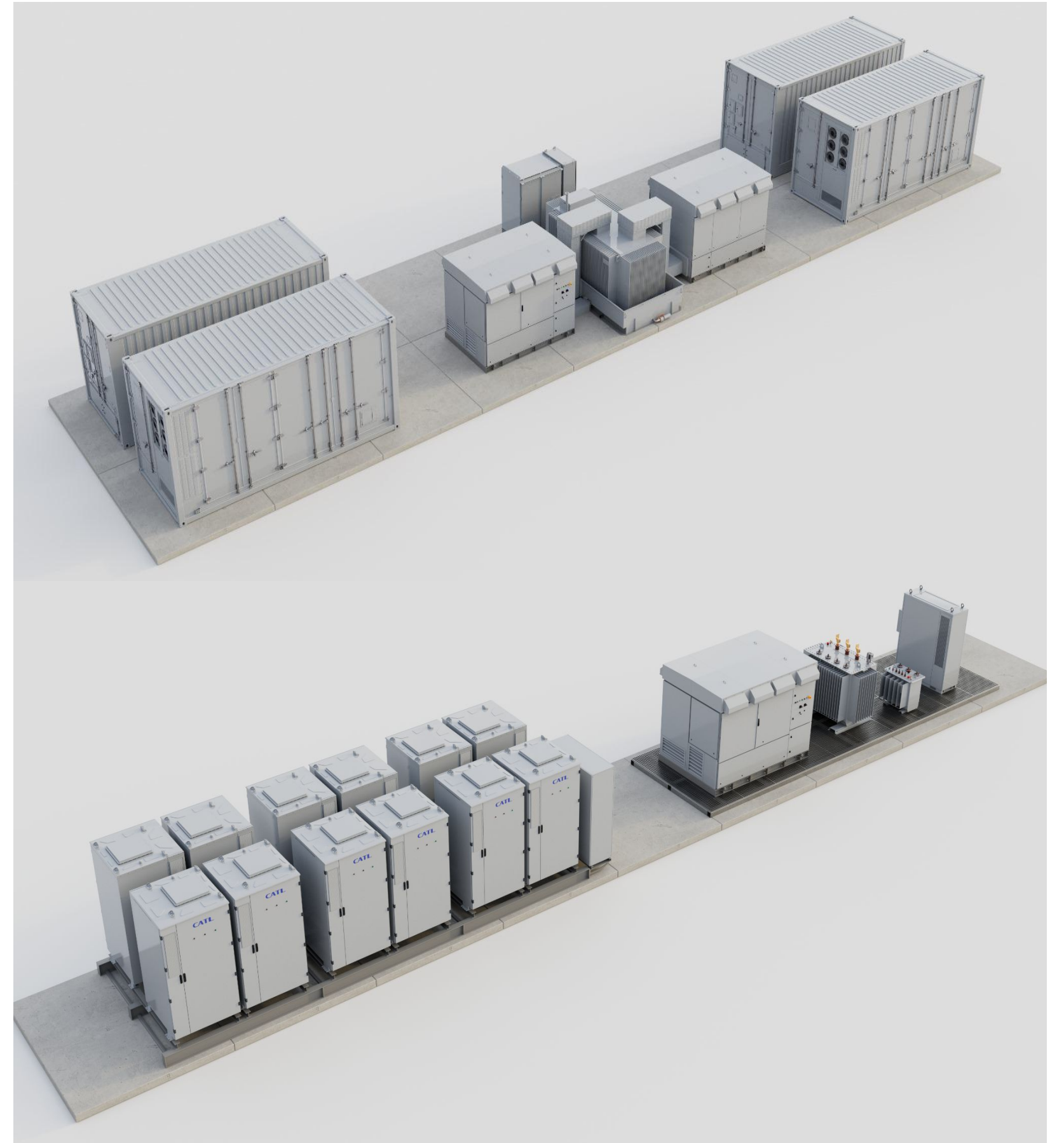
- **Battery Options:** Compatible with all CATL battery systems (1–4 hours of storage).
- **Grid Compliance:** Fully supports **6–35kV grid connections** with Litgrid and ESO standards.
- **Advanced Grid Support:**
 - Reactive power compensation and synthetic inertia.
 - Seamless grid transitions and black start capability.
- **Safety & Reliability:**
 - Integrated fire suppression and oil retention systems.
 - Outdoor-rated (IP55) for temperatures from **-35°C to +60°C**.

System Integration:

- Prewired **LV-MV connections** for easy and fast installation.
- Integrated with **NordNest EMS** for FCR, aFRR, mFRR, and NordPool trading.
- Open compatibility with third-party optimizers and aggregators for revenue optimization.

Applications:

- Utility-scale energy storage, hybrid parks, and grid stabilization.



Our Services

Flexible Financing Options:

- Exclusive offering: Clients can **pay for the batteries over time**, minimizing upfront capital requirements.
- ROI evaluation using hourly consumption meter data to determine the best energy storage solution and investment model.

In-House SCADA & EMS:

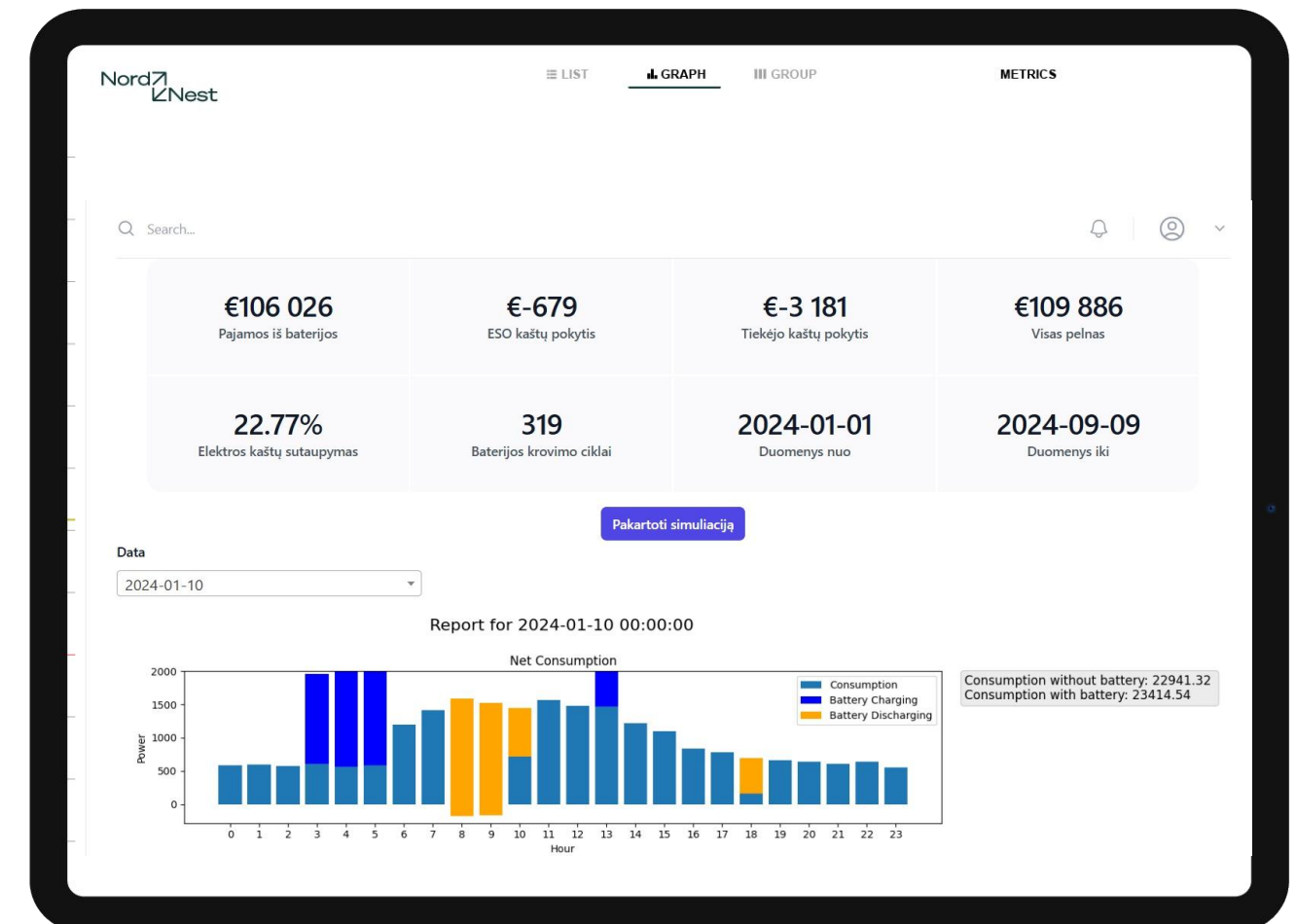
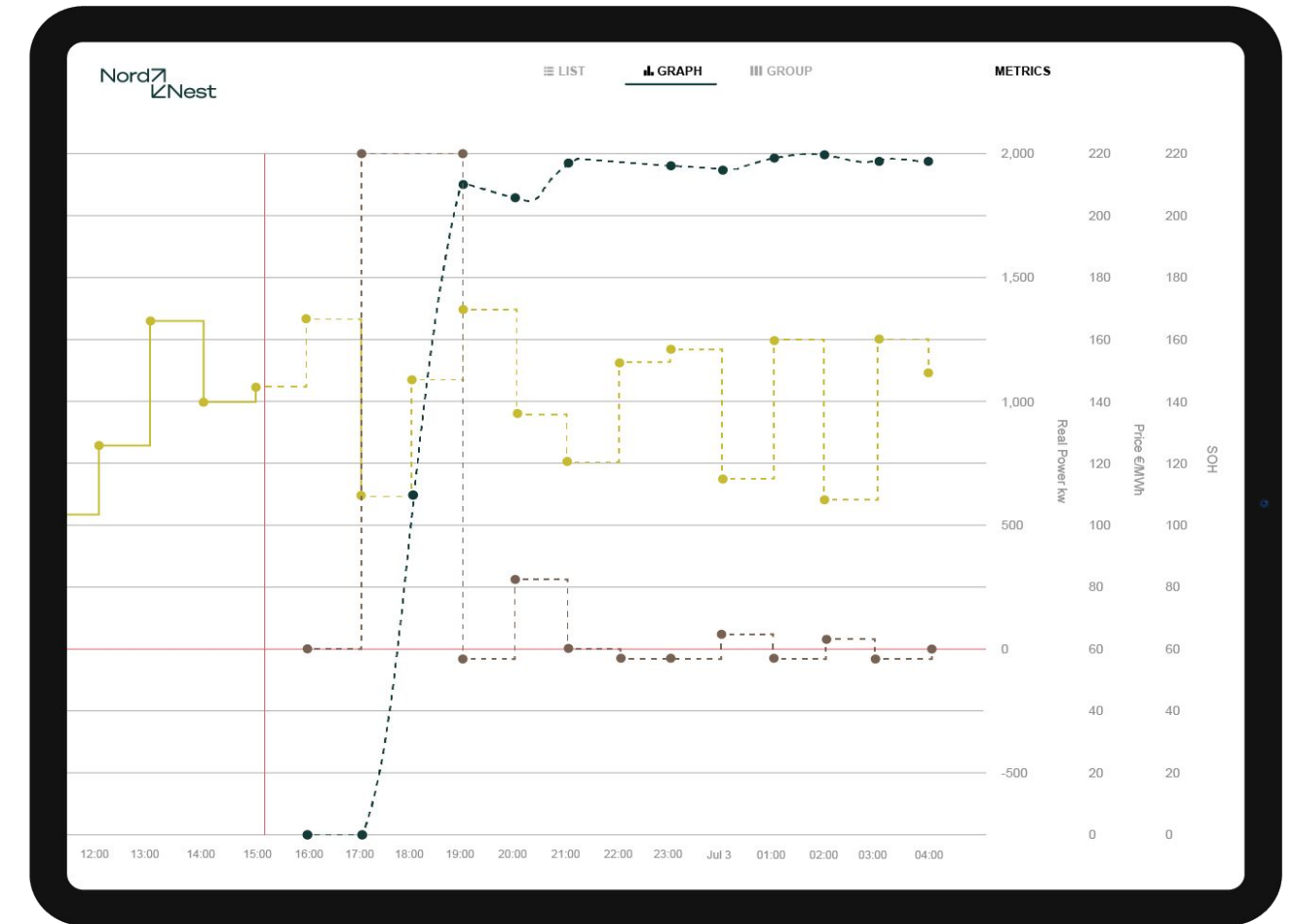
- Developed internally for **full local control** over the energy storage system.

Engineering, Procurement, Construction, and Commissioning:

- Full-scope EPC services with seamless integration to **DSO and TSO networks**.
- Commissioning tailored to meet **Litgrid** and **ESO** standards for regulatory compliance.

Maintenance & Operation:

- Ongoing **local support** for system updates, monitoring, and security.



We make most
ambitious projects
happen.

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