

Renewables & Clean-Tech Conference 2023 Fearnley Securities

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Positioned for the Iow-emission society Long industrial history and competence Strong profitable growth



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Our business areas and portfolio companies



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PROVIDING RELIABLE ENERGY SOLUTIONS

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Segments





SHORE POWER



ENERGY INFRASTUCTURE

Increasing revenue with BESS as main driver



140 % growth in revenue from **2018** to **2022**

40 % growth in revenue from Q3 2022 to Q3 2023







Energy storage systems

- Battery energy storage solutions for multiple segments and area of use
- Stationary and mobile batteries with integration layer of control software
- Applicable for all battery use cases including energy trading, capacity markets, frequency control and peak shaving



Grid stabilisation

FFR/ FCR

Mobile energy

Areas of use

DC Charging

.

E-mobility Grid support



Datacenter Emergency Power PSW POWER & AUTOMATION

ER & AUTOMATIO

Port electrification

Ports adapting hybrid technologies
Combined shore power and fast charging
Energy storage with common DC link
Alternative energy sources



Deployment and presence

Tr.

Presence in Bergen, Oslo, Sweden and Germany.

200 MW deployed and ongoing projects within shore power and charging29 MWh deployed and ongoing projects within BESS. UK Netherlands Germany Romania

Norway

Iceland 🔴

Saudi-Arabia

Indonesia

Thailand

New Zealand

Facilities

10.000 m² state-of-the-art production and test facilities.



Market outlook

Battery energy storage systems (BESS) are the crucial and most transformative solution for the challenges posed by the intermittency of renewable energy sources.

Not only can BESS be coupled with renewables it can also be connected to the grid, as a standalone battery for frequency control applications and grid stabilization proposes.

As such, the BESS market is multiplying as the energy transition speeds up.

Required global battery energy storage installations under RE base scenario Gigawatts (GW) Installed capacity, Gigawatts (GW) 500 4,000 Battery energy storage Wind (RHS) Solar (RHS) 400 3,000 300 2,000 200 1,000 100 2022 2023 2024 2025 2026 2027 2028 2029 2030

Source = Rystad Energy publications 2023 «Five key parameters of BESS capex» and «Energy transition Report»

Market outlook

Current situation BESS:

- Ongoing **14MWh** deployment in Sweden for FFR / Grid stabilisation.
- 15MWh ongoing and deployed mobile energy in Germany, Netherlands, Saudi, and Norway.
- Tender back-log 2024-2025: 212 MWh

Key drivers of growth:

- Megatrend within Battery Energy Storage Solutions.
 - Energy mix, relying on wind and sun, requires grid stabilization solutions.
 - EU Directive for **emission free** construction sites
- Company established with a leading R&D environment within battery technology, power electronics and software.
- Strong business development team and scalable company setup ready for increased volume and growth.

Going forward

- PSW already taken a **key role** in the ongoing energy transition in Scandinavia
- High customer confidence within HV systems in Scandinavia, enabling early market entry.
- Company with long industrial history, **ready for scale up.**
- Market establishment and ongoing contracts in Europe and Asia
- PSW will explore and develop adjacent markets opportunities within battery solutions and software control

Powered by the future

PSW POWER & AUTOMATION