Powering a clean future within the Ocean Space

Market development and Product Roadmap Sourcing Strategies Second Life Scenarios



Nils Valland

Senior Vice President Supply Chain

BATMAN – Industrial opportunities within Li-Ion Batteries 11.12.2019





Powering a clean future





Safe. Trusted. Cost effective.

Corvus Energy is the world's leading supplier of safe, innovative and reliable energy storage solutions for all segments in the maritime industry.





About Corvus Energy



Supplier of ESS

- Founded in 2009
- HQ in Norway
- 170+ employees
- Privately held ownership





The Team

- Superior battery knowledge
- Culture for innovation
- Strong maritime DNA
- Extensive global network in the maritime industry
- Entrepreneurial skills



Quality and Risk

- Gated processes for product development
- ISO 9001 certified
- ISO 14001 certified
- Manufacturing according to Industry 4.0
- Extensive project risk mitigation



Pioneers in the Ocean Space





New Size Installations



AIDAperla, Built 2017, 3300 passengers and crew of 900 Retrofit 2020, 10 MwH installed mid-sea Corvus Energy delivers the largest battery pack ever delivered to a ship .

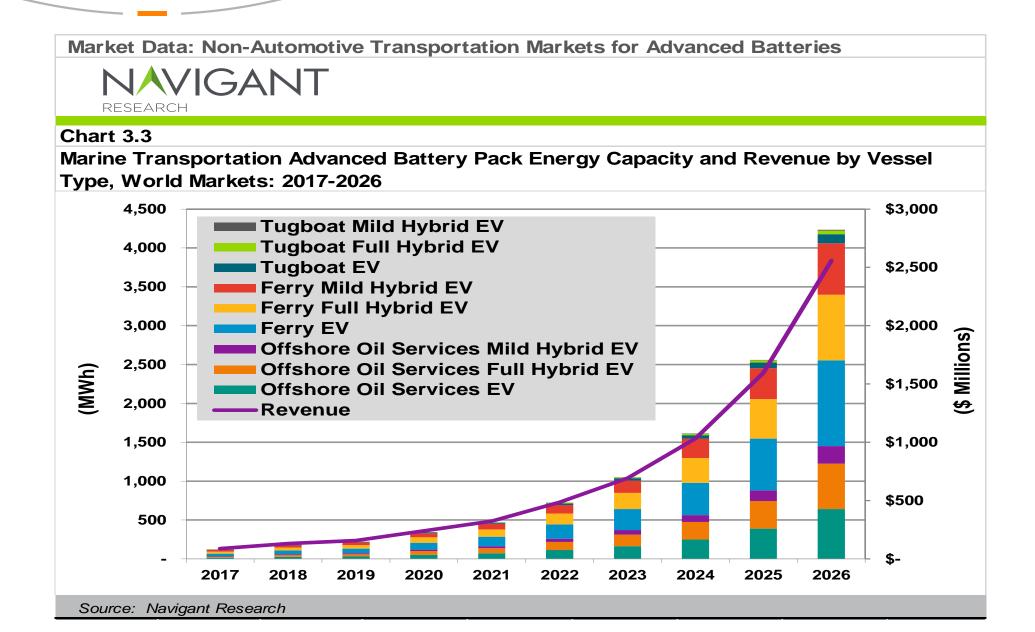
Market development Marine ESS







Industry Forecasts



Our Product Roadmap





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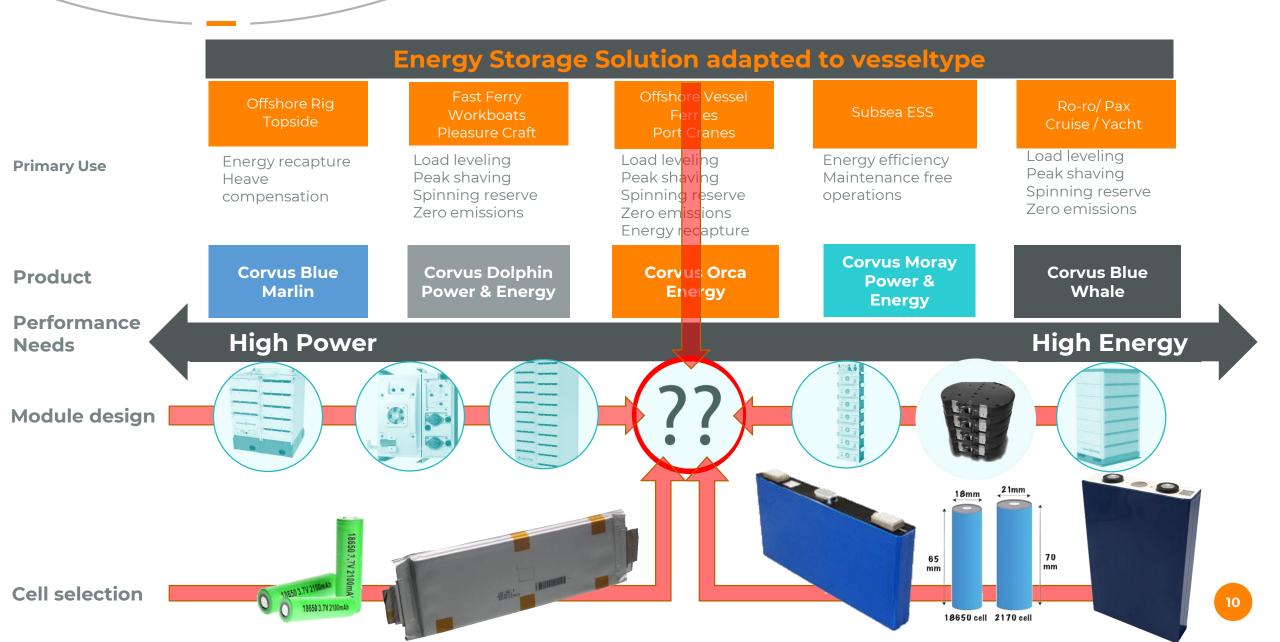
Corvus Energy product roadmap

Energy Storage Solution adapted to vesseltype

	Offshore Rig Topside	Fast Ferry Workboats Pleasure Craft	Offshore Vessel Ferries Port Cranes	Subsea ESS	Ro-ro/ Pax Cruise Yacht
Primary Use	Energy recapture Heave compensation	Load leveling Peak shaving Spinning reserve Zero emissions	Load leveling Peak shaving Spinning reserve Zero emissions Energy recapture	Energy efficiency Maintenance free operations	Load leveling Peak shaving Spinning reserve Zero emissions
Product	Corvus Blue Marlin	Corvus Dolphin Power & Energy	Corvus Orca Energy	Corvus Moray Power & Energy	Corvus Blue Whale
Performance Needs	High Power				High Energy

Corvus 😑 Energy

Product development / System design / Cell selection





Recycling of ESS

- 99% recyclable
- Recycling facilities in North America and Europe
- Second Life Use Cases
- Grid infrastructure
- Shore charging stations
- Shorter ferry routes





