



Efficient HV-electric modular battery and distribution systems for sustainable Waterborne VEssels

Powering the Future for Electric Shipping

Real-Life Demonstration on the Research Vessel of DLR

Novel HV Battery System



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- Safety Concepts
- SoC, SOH, SoS
- Sustainability



- Safe and Long-life
- System energy density > 185 Wh/dm³
- 20% weight reduction of battery module housing
- HV system at 1500 VDC
- Modular concept scalable to far beyond 1MWh
- Reliable operational life
- Enhanced circularity

Digital Twin Assessment

- RoRo / RoPax Ferry
- Inland shipping
- Offshore Supply Vessel
- Harbour Tug



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eWAVE project



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