



SPBES

Energy Storage Systems

Presenter name here



Leadership Team



Brent Perry

Personally involved in 90% of all large hybrid and electric ferry projects on the water today.



Chris Kruger

A unique ability to understand energy storage from the design and end user side.



Paul Hughes

Extensive expertise within the renewable energy, alternative fuels and biochemical sector.



Geoff Davenport

Geoff Davenport has 40 years of experience in senior sales and strategic leadership.



Grant Brown

Involved in maritime electrification since its commercialization, Grant is able to explain the benefits of energy storage and inspire others.

A Team Focused on Delivering Leading Technology and World Class Service

Our Partners



June 1st 2019 - The principal owners of Shapoorji Pallonji and Sterling Wilson joined the founders of PBES and formed Sterling PBES - giving us the financial capacity to serve the global ESS market. Together they own industrial power companies that generate \$5B USD/year in revenues.

SPBES Around the World

SPBES Offices

- Vancouver, Canada
HQ R&D and Product Development
- Trondheim, Norway
Service Center, Parts Depot
- Barcelona, Spain
Project Management and Solutions
- Kent, UK
Solutions
- Copenhagen, Denmark
Solutions
- Whangarei, New Zealand
Solutions & Service

Manufacturing:

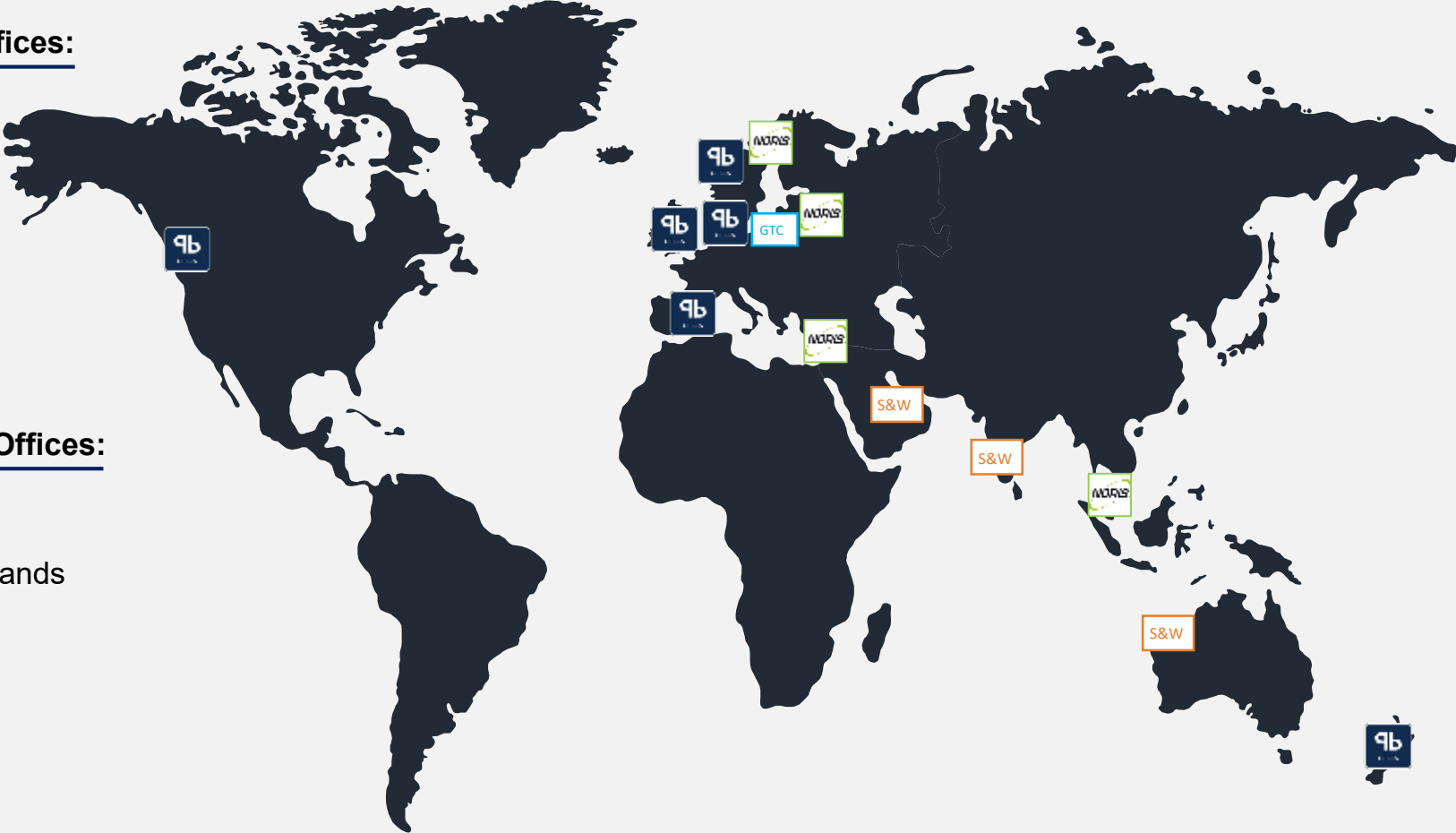
- GTC Gustrow Germany
Manufacturing, Service

Sterling Wilson Offices:

- Mumbai India
Solutions
- Perth Australia
Solutions
- UAE
Solutions

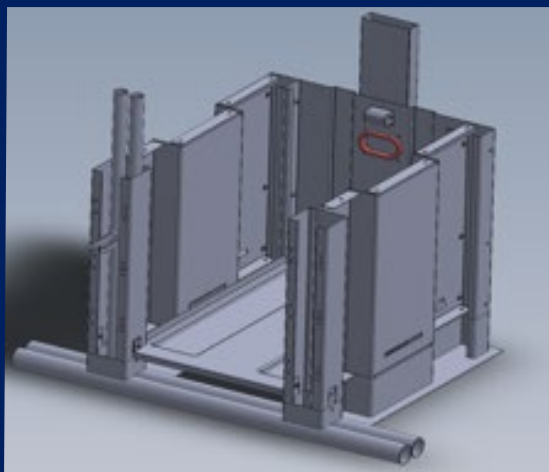
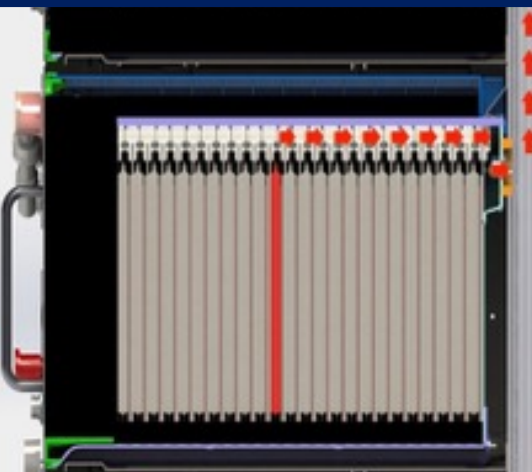
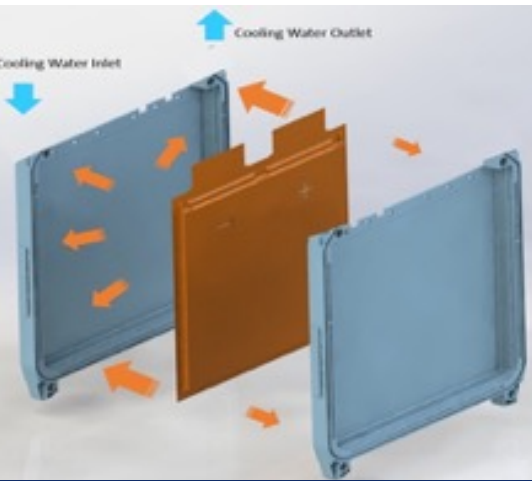
Noris Automation Offices:

- Rostock Germany
Solutions
- Amsterdam, Netherlands
Solutions
- Istanbul, Turkey
Solutions
- Alesund, Norway
Solutions



What Makes SPBES Unique

Safe, Powerful, Tough and Economical



Marine Design

The SPBES Power 6.5kWh and Energy 9kWh solutions are DNV Type Approved and purpose executed for high impact commercial marine installations.

Safety

SPBES products are the most advanced safety systems available today in the commercial marine industry.

Sustainability

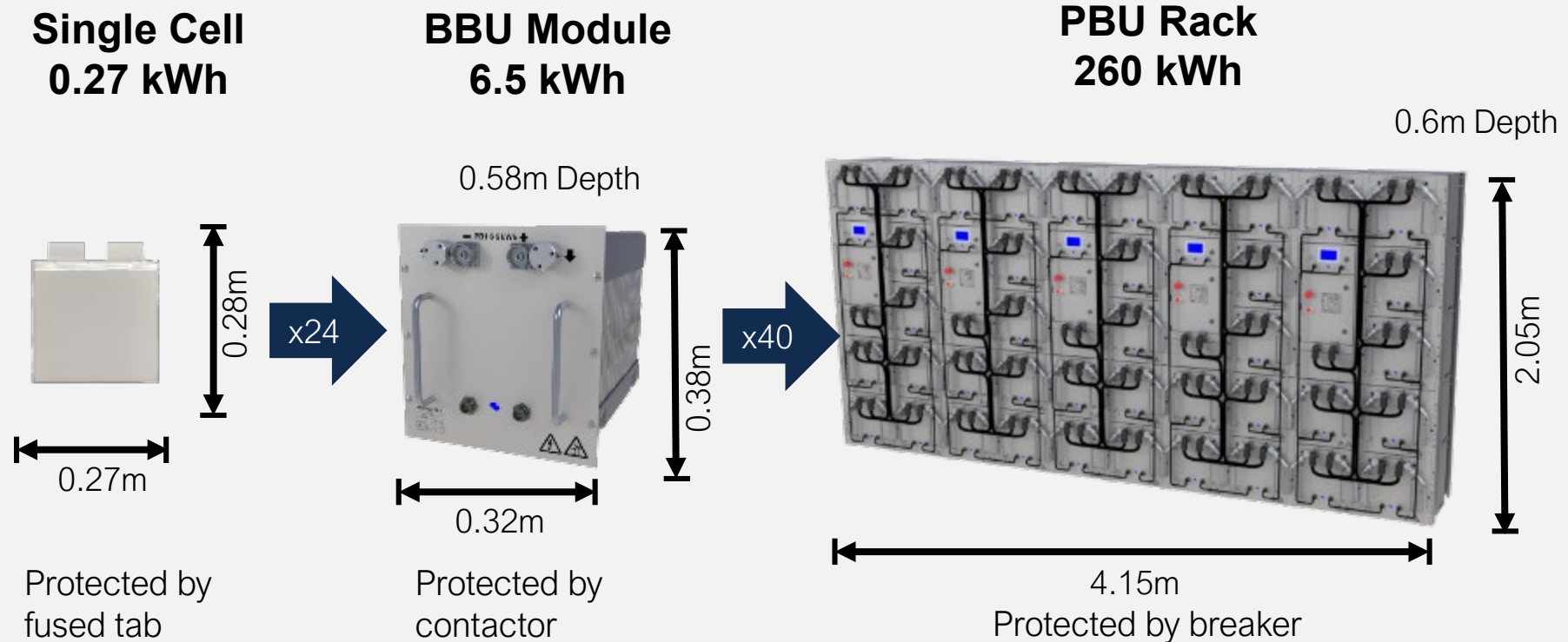
We don't fill up landfills - our products are designed for extended life with nearly 100% recycling included in every contract.

System Design

Modular flexibility. Included fire detection/prevention, emergency ventilation, battery temperature control and cellular voltage and temperature monitoring.

SPBES Design: Cell, Module, Rack

Power System



Battery can be configured for capacity of 13kWh to multiple MWh

Module Design

Terminals Isolated by Contactor

No voltage during:

- Shipping
- Installation
- During power hookup
- When system off
- During emergencies
- During service



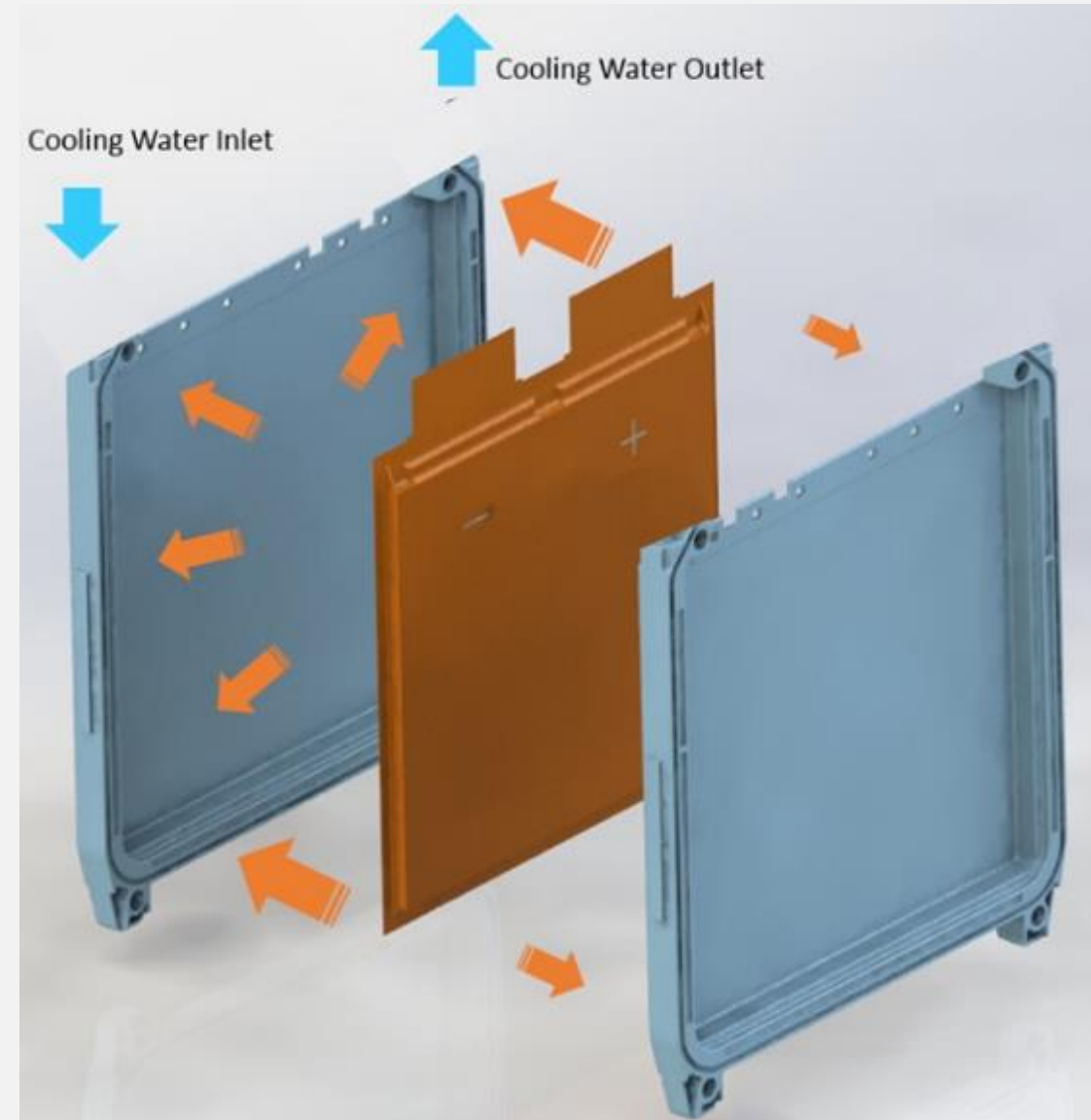
Cell Carrier Design

SPBES Patented Technology

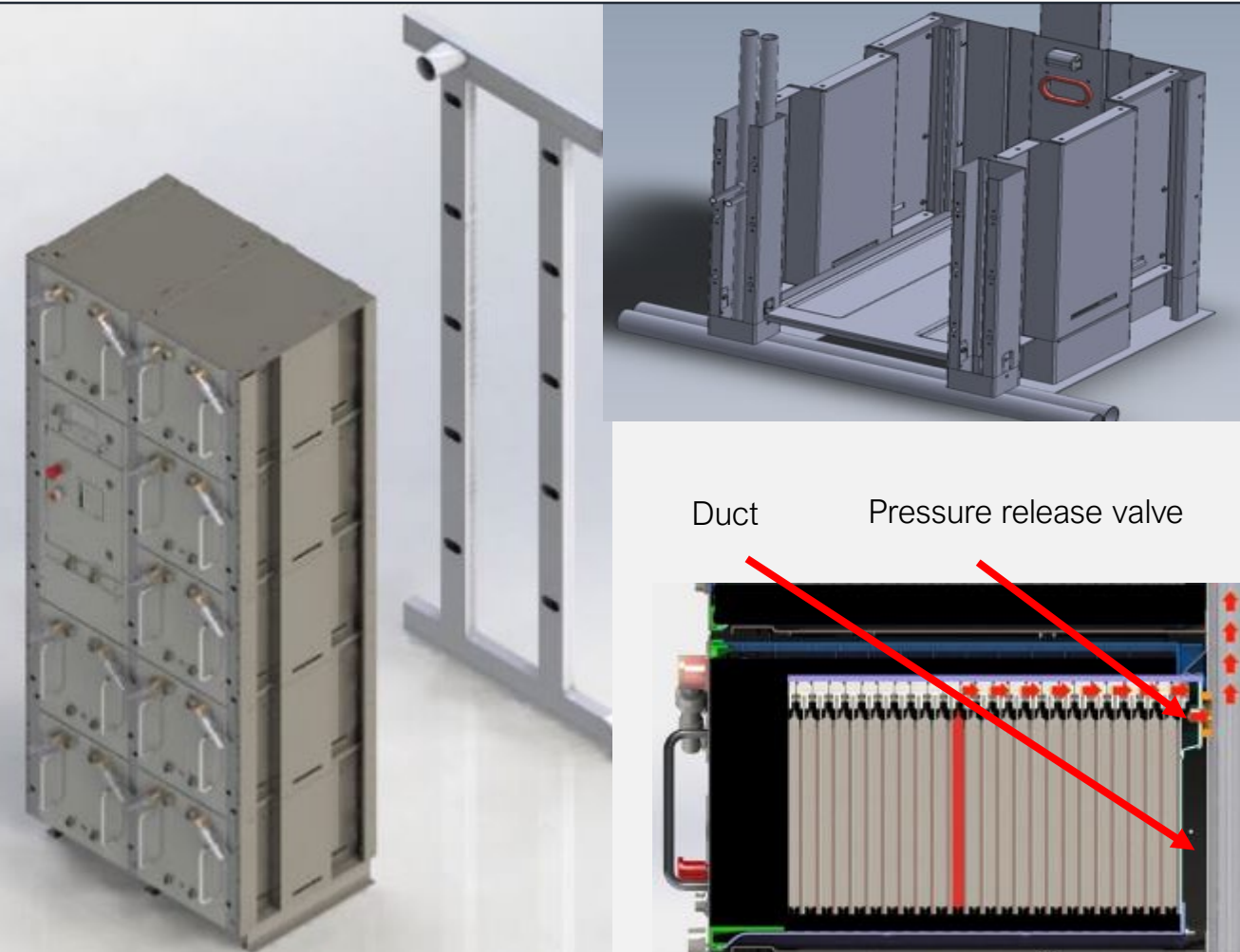
Performance - Maximum performance, smallest systems

Safety - Prevents thermal runaway

Value - Lifetime value best in industry



Rack Design



- Safest rack in the marine industry
- Scalable, flexible, modular
- Cabling, cooling and venting integrated
- 63 G Impact
- Fire detection / fire fighting built in

SPBES Certification & Standards

DNV GL Type Approval

**International Organization
for Standardization: ISO**



The SPBES energy storage system has received DNV GL Type Approval for use in commercial marine, offshore oil & gas and renewable energy applications.

SPBES has achieved certification of the ISO 9001:2015 standard.

Industry Partners

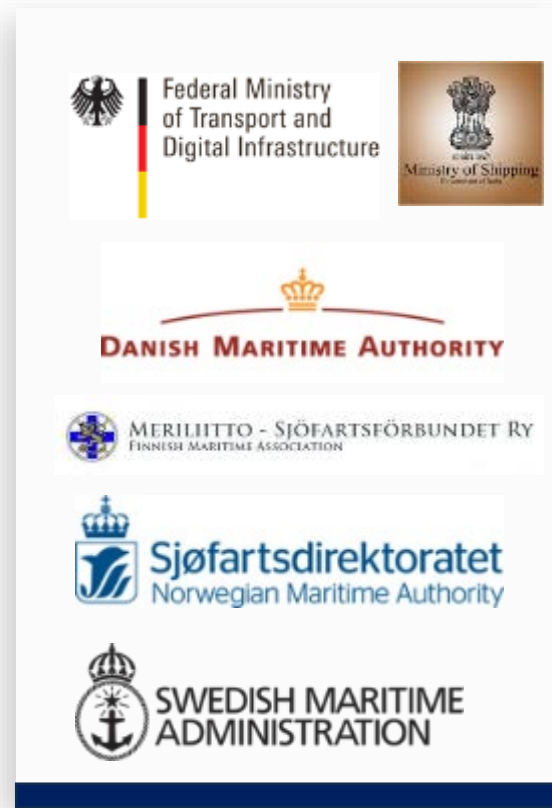
Setting New Standards



DNV-GL

ABS
FOUNDED 1862

Lloyd's Register



Federal Ministry of Transport and Digital Infrastructure

Ministry of Shipping

DANISH MARITIME AUTHORITY

MERILITTO - SJÖFARTSFÖRBUNDET RY
FINNISH MARITIME ASSOCIATION

Sjøfartsdirektoratet
Norwegian Maritime Authority

SWEDISH MARITIME ADMINISTRATION



IMO INTERNATIONAL MARITIME ORGANIZATION

IMO SOLAS

Why SPBES

3C RMS - More performance smaller systems

Liquid cooled cell carriers

Modular flexibility, open to integration



Integrated Racking & Safety

Thermal runaway prevention

The most experienced marine energy storage team in the world



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