

COMPANY PROFILE

01.04.2022



ELECTRIFYING THE OCEANS

for a brighter future

(and because it's commercially wise)



"We cannot solve our problems with the same thinking we used when we created them"

- Albert Einstein



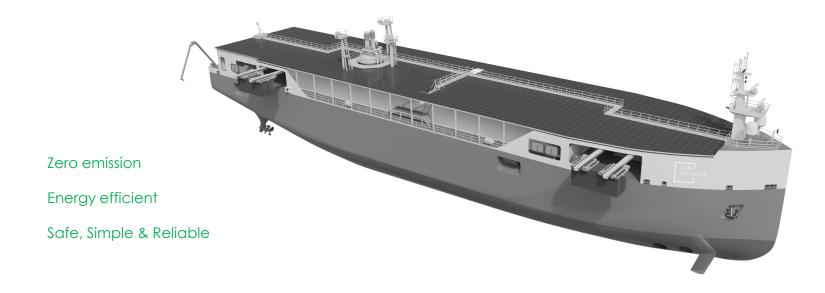
The future of ocean shipping is **simple**, **safe** and **sustainable** - the frictionless fabric of global trade.

Therefore, ships will go electric and autonomous. They will be deployed at scale, coordinated by an intelligent network for efficient movement of goods.



FULLY ELECTRIC SHIPS

Purpose-built, designed from keel-up for battery electric propulsion (and autonomy).



The future starts now!





Our patent-pending, safe & low-cost maritime battery system.



Enabling sustainable ocean transport.





Operated as a fleet by an intelligent platform for battery-sharing, charging and route optimization

Integrated fleet

Intelligent logistics

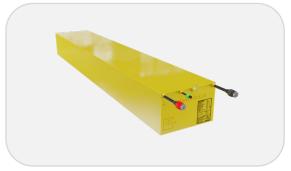
Cost effective trade

Clean and efficient without compromise.

ZEN OCEAN

PLAN

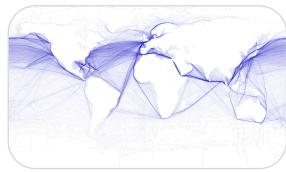




Electric ships



Trade platform



Mission:

Develop safe & low-cost maritime batteries

Business model: Sell maritime batteries

Potential: Large and promising

Develop purpose-built energy & cost-effective ships

Sell electric ships

Huge but challenging

Develop intelligent logistics solution

Shipping as a service

Enormous.

Status:

- Working module prototype
- Ongoing type approval (DNV)
- Planning commercialization







PACK 3.8 MWh



SYSTEM

 ∞







Watertight

100% watertight modules, allowing for water flooding as primary mean for fire prevention and mitigation



High energy density

Battery containers at 4x – 6x energy density compared to other systems on market



Low C-rate

System designed for low c-rate, implying low cooling demand and thus low system complexity



Rugged

Structural integrity and cell fixation is satisfied without using reinforced steel encapsulation





Safe

No thermal runaway propagation risk between cells and modules.
World class fire safety properties



Low cost

The simple and reliable system yields low OPEX and low CAPEX relative to other systems on market



Scalable

Modularized / containerized system designed for scalability and battery swapping. From 63 kWh to ∞



Proven

System built and based on off-theshelves components and proven subsea encapsulation technology



TEAM



Andreas Norberg - Co-founder, CTO

Andreas is an experienced entrepreneur who has been involved in several start-ups and industry successes within the maritime domain.

Andreas is educated M.Sc., Naval Architect (2011) from the Norwegian University of Science and Technology (NTNU) and holds an MBA from BI Fudan (2019).

Andreas was one of the Founding Partners in eConnect Energy and is one of the inventors of eConnect's patented buoy- and ship-to-shore gas-transfer technology. He was a co-founder of LNT Marine, a technology provider and LNG-ship design specialist. Here, he was the inventor of the LNT A-BOX containment system and was responsible for design- and construction of a novel LNG-carrier installed with the LNT A-BOX-system. He has also worked for CGR marine, on developing a new design for a single-tank LNG bunkering vessel.

Andreas has worked with technology development, ship design and shipbuilding his entire careers. ZEN OCEANS was his next step, and he is currently 100% committed to electrifying the oceans.

Fridtjof C. Eitzen - Co-founder, CEO

Fridtjof has 10 years domain experience, with a large network in the maritime industry.

Fridtjof is a Clearance Diver from the Royal Norwegian Navy. He holds an M.Sc. degree in Marine Technology (2012), with specialization in hydrodynamics, from Norwegian University of Science and Technology (NTNU), and an online Specialization in Deep Learning and Artificial Intelligence (2017) by Stanford University and Deeplearning.ai. He holds an Executive MBA in Finance and CFA (2021) from Norwegian School of Economics (NHH).

Fridtjof has worked in DNV, as technical consultant on hull integrity and hydrodynamics, and in Golar LNG on multi-billion-dollar ship conversion projects. Since that, he has worked as a fifth-generation partner in Camillo Eitzen & Co, of 1883. He currently serves as Chairman of Christiania Shipping, in Copenhagen.

With a genuine passion for the oceans, he co-founded ZEN OCEANS in 2020, and now seeks to leverage his domain experience to achieve its vision.



We consider the argument for electrifying the oceans to be very strong.

Therefore, we will think big and nudge the market for fully electric ships from 0 to 1. On the way, we will develop products that in themselves will scale into large revenue-generating operations, funding our vision.

Do you want to join us?

www.zenoceans.com

