

FERRY
SHIPPING
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Eco-Smart Shortsea Ferries

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Outline

- Introduction
- Benefits
- Future

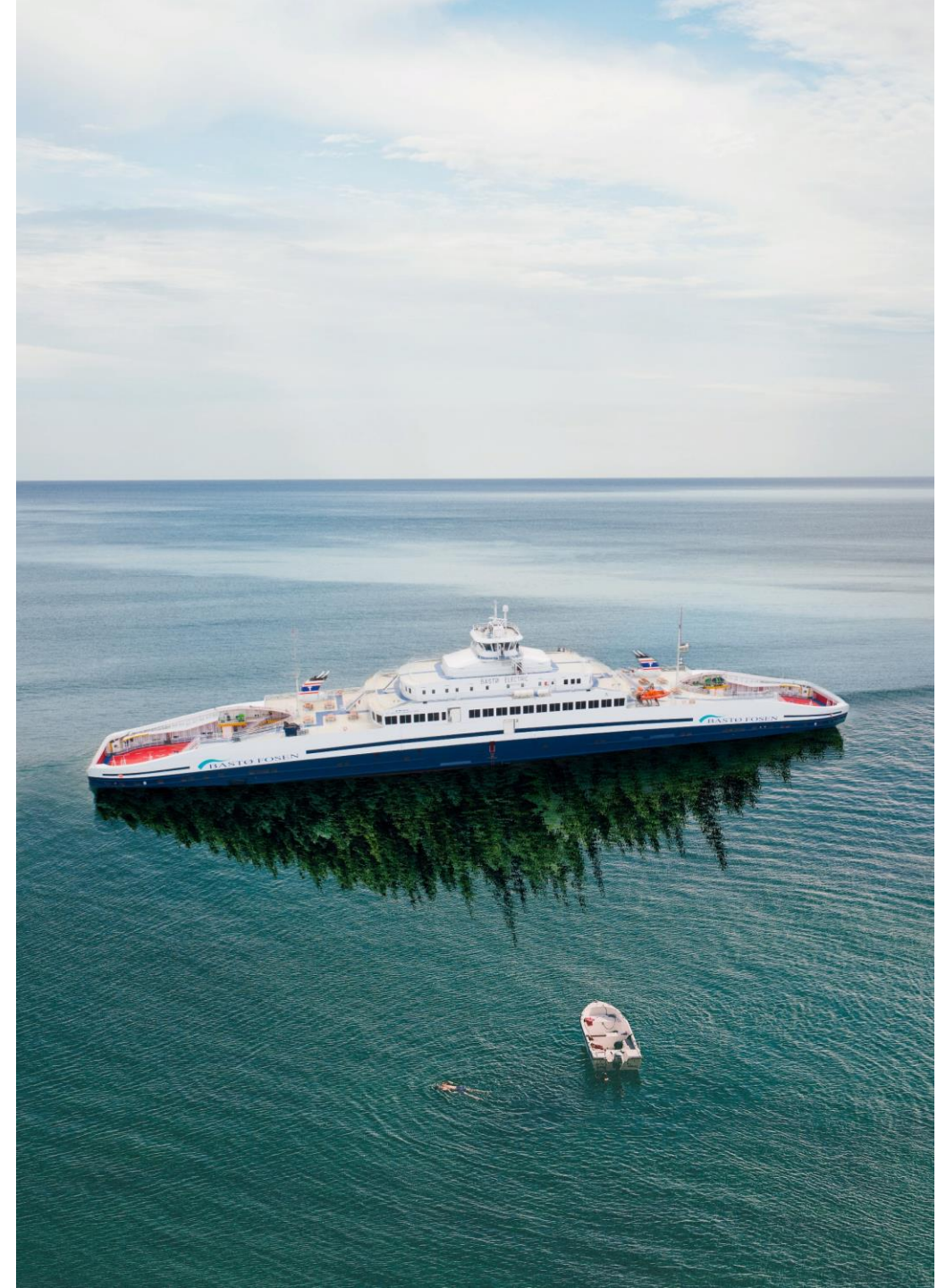
Introduction

- World needs to lower the energy consumption
- Technological developments in maritime industry
 - Alternative power sources: Electric, Bio-Diesel, LNG, Hydrogen, etc.
 - Diesel-electric, hybrid, full electric
- Governments' support with subsidies, subventions



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**What are the
major benefits?**

Less environmental footprint

- “Basto Electric”, World’s largest all electric ferry
- Norway’s busiest route: Moss-Horten, all electric operation
- With its 4.300 kWh battery power, emissions reduced by **75%**



Lower operation costs

- Less fuel consumption results with lower operation costs
- “Hillefjord” hybrid ferry, operating between Ranavik–Skjærsholmane, all electric operation
- 2.850 kWh battery capacity



Minimum manning

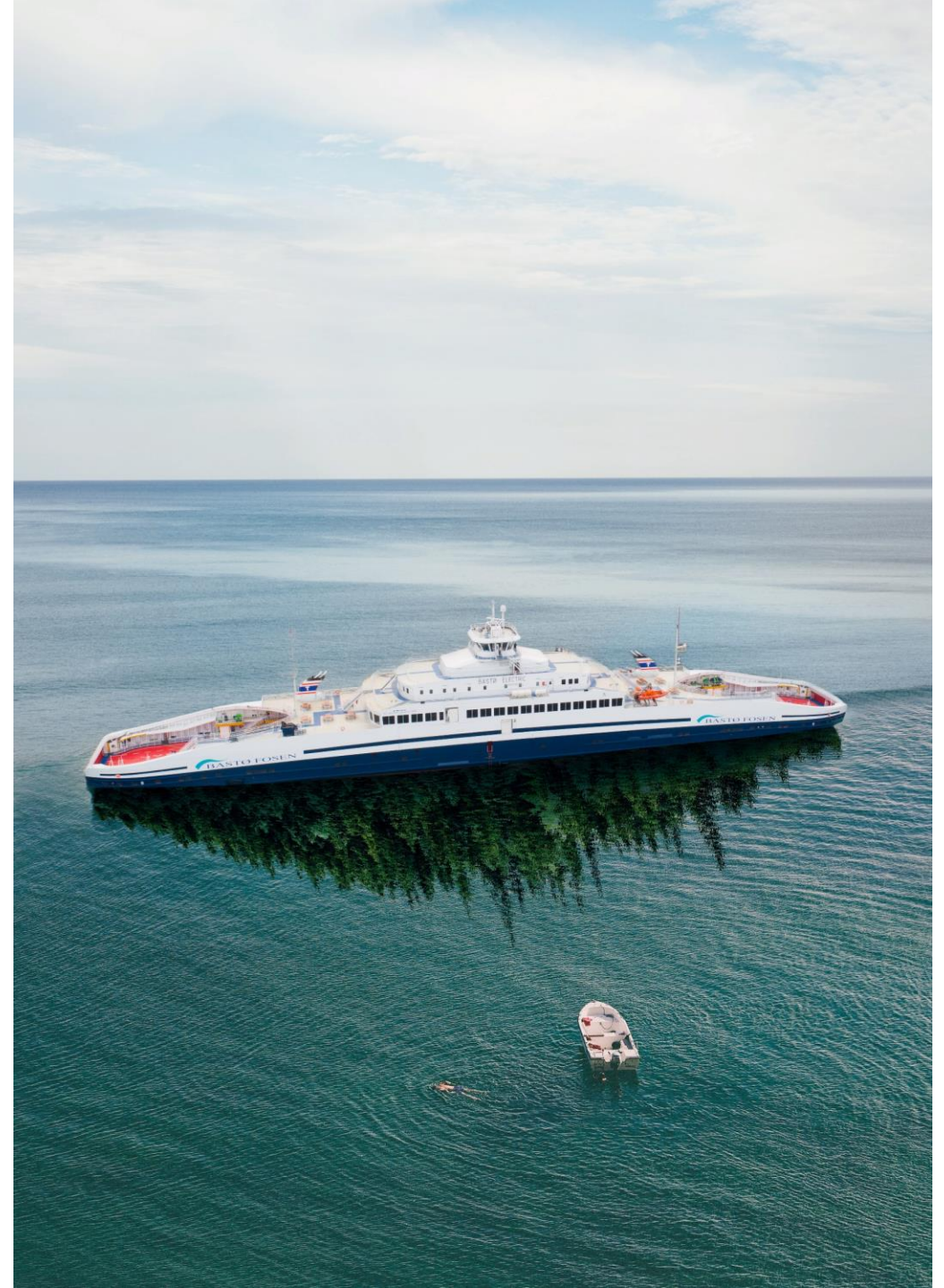
- Automatic mooring
- Fully-aluminum, lightweight ferries
- 1.017 kWh battery capacity



**How is the
future looking?**

Future of the industry

- Alternative fuels will be more common
LNG, Ammonium, Hydrogen, Fuel Cell
- Exponential development with the accumulated knowledge



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thank you for your attention...