

# Fjord1 and Br. Aa High Speed Passenger Vessels



Illustration: Br. Aa. From left, MF "Aero Knarvik", MF "Tyrhaug", MF "Terningen".

## GENERAL VESSEL INFORMATION

Owner	Fjord1
Shipyard	Br. Aa
New build No.	xx, xx, xx
Delivery	2024 / 2025
IMO No.	xx, xx, xx
Ship Design	Br. Aa

## BRUNVOLL DELIVERY

The delivery for the three vessels consists of:

- Triton Energy Management System (EMS)
- DC switchboard
- Electrical motors
- Inverters
- Charging Solutions

Fjord1 and Brødrene Aa has chosen Brunvoll Mar-El as system integrator and supplier of electric propulsion systems for one new low emission and two zero emission passenger ferries.

All the components will be integrated together into Brunvoll Mar-El's Propulsion and Energy management system.



Illustration: Br. Aa. Aero Design

## Zero Emission Solutions

The new vessel will have the new Aero-design from Brødrene Aa. The vessel will have a low emission propulsion system with an electrical power output of 3.000 kW and will operate on the long route between Knarvik and Bergen.

The two other vessels are newly acquired by Fjord1. These vessels will be subjects of extensive retrofitting from conventional propulsion system to a new zero emission propulsion system, with the power output of 2.200 kW for operation of the Bergen-Askøy route. Charging capacity of up to 4.000 kW will be installed in both Knarvik and Askøy.

The vessels will be equipped with the Brunvoll Light-weight Power System, a super compact and flexible integration system optimized for vessels with strict requirements to weight, volume, and performance.

The delivery is set to Q2-Q3 in 2024, and the vessels will enter into operation on a 15-year contract with Vestland County Council in January 2025.