

# Shore power charging system for Vision of the Fjords E-ferry, Norway

Ports&Maritime



## Customer challenge

Vessel operator Fjord Fartøy wanted to offer tourists a unique experience: explore the Nærøysfjord, a UNESCO World Heritage Site, in virtual silence. To achieve this, a unique, carbon fibre electric hybrid ferry, with capacity for 400 tourists, was introduced on the service.

The battery unit of the Vision of the Fjords is now charged during brief berthings at the ports of Gudvangen and Flåm. The connection to electrical power needs to be performed quickly to maximise the amount of charge time.

With some 700 trips scheduled annually, Fjord Fartøy needed a robust and safe charging system.

## Cavotec solution

Drawing on its broad expertise in shore power connection, Cavotec designed, manufactured and installed one AMPDispenser in each of the two ports. The AMPDispenser comprises two cable and plug sets, providing 600Amp each.

The AMPDispensers are operated by radio remote control units. The power connection is controlled by pilots and contacts on the dispenser to ensure rapid and safe connection.

The AMPDispenser is designed to withstand the often harsh conditions experienced at the two Norwegian ports.

## Operator

Fjord Fartøy I DA

## Vessel name

Vision of the Fjords

## Location

Flåm and Gudvangen (Norway)

## Date of installation

July 2016

## Cavotec solution and scope of supply

Provision of 2 x AMPDispenser to connect and charge vessels at berth.

Each unit handles two flexible cables (3x240mm<sup>2</sup>+3G50mm<sup>2</sup>+2x1x1,5mm<sup>2</sup> for each cable).

## Main benefits

- 2-4 minutes for connection/disconnection
- Easy handling with radio remote control
- Safe system with electrical interlocks
- Robust design

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“ Cavotec’s experience of and proven track record in connection systems contributed to the success of this project. Cavotec AMPDispenser ensures the fast, safe and easy connection of our ferry to electrical power. ”

## **Fjord Fartøy I DA**



AMPDispenser installed at the Port of Gudvangen.



Onboard connection.



AMPDispenser installed at the Port of Flåm.