

Project:

E39 SULAFJORDEN SFTB

LOCATION:

Sulafjorden, Møre og Romsdal county

YEAR:

2016 - ongoing

CLIENT:

Norwegian Public Roads Administration

SCOPE/PHASE:

Detailed technical assessment

PROJECT RESPONSIBLE:

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PROJECT DESCRIPTION:

Dr.techn. Olav Olsen is developing a Submerged Floating Tube Bridge concept for Sulafjorden. The objective is to document feasibility for the SFTB alternative for a crossing with challenging environmental conditions. A key difference between Sulafjorden and earlier studies is the exposure to open sea. The strait experience direct swells from NW, and may therefore experience swell waves with significant wave height in ranges up to 5 meters. The nearby topography is also particularly steep, increasing the possibility for rock slides. At the same time, deep water and high winds make it challenging for any concept to cross above the water surface. The project covers a broad spectre of tasks, among them coupled wave analysis in the time domain, structural design and construction phase and marine operations planning.

