Nordic Optical Cable Line



Overview

IOEMA is a state-of-the-art, high-capacity, 1400 km repeatered submarine fibre optic project that will arc across five key northern European markets: the UK, The Netherlands, Germany, Denmark and Norway, supporting critical infrastructure security with full armouring and burial. The IOEMA cable. The Polar Connect is a Northern European initiative to obtain secure and resilient connectivity through the Arctic to Asia and North America for Research, Development, Innovation and Education. This severely adds t the strategic digital autonomy of the European Union and its close allies. Behind the report are the Nordic National Research & Education Networks (NRENs). A rapidly expanding network of submarine fibre optic cables has brought about a sea change in Norway's digital infrastructure.

Article Content

New subsea cable planned, connecting Norway,

The cable connects with vital transatlantic crossings Havfrue (DK), Leif Erikson (NO) and other planned Trans-Atlantic cables. The IOEMA system will

Polar Connect

The project is part of the Polar Connect initiative, where the long-term plan is to connect the Nordic region with Japan and South Korea through a fiber optic cable under the Arctic Ocean,

Eastern Light | Baltic Sea Optical Expressway

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

Eastern Light is currently operating, building and planning a series of fiber-optic cable routes in the Nordics, with the purpose of meeting the fast-growing demand for modern and effective long-haul

A Resilient Submarine Cable System through the Arctic equipped with

The Swedish Government currently owns one icebreaker suitable for assisting a cable laying ship in the Arctic, i.e. the Oden 32 (Figure 2.4).Moreover, the Swedish Government is planning to commission a

Norway''s submarine cable network provides world-class

A recent flourishing of submarine fibre optic cables, however, has provided Norway with direct, secure and fast links to the main data hubs on the

Submarine Cable Map

TeleGeography''s comprehensive and regularly updated interactive map of the world''s major submarine cable systems and landing stations.

NordLink

The 625 kilometres (388 mi) long line operates at a voltage of 500 kV DC. It consists of 54 kilometres long land cable in Schleswig-Holstein, Germany, a 516 kilometres long submarine cable

GlobalConnect joins Nordic project to develop global Arctic fiber cable ...

GlobalConnect brings several years of experience from deploying sea cables in Scandinavia, recently completing the largest digital infrastructure project in the Nordics for the last

Built-in resilience for Arctic subsea cables

With state-of-the-art fibre sensing technology, the two cables proposed to connect Northern Europe to Asia and North America will contribute

The IOEMA Project: A new state-of-the-art Data

The IOEMA cable system consists of a trunk route, connecting Dumpton Gap, UK with Kristiansand, Norway and three branches, connecting Eemshaven, The

Optical Connections

Sweden''s Eastern Light has selected Ciena''s GeoMesh solution to help meet what it says is “fast-growing demand” for long-haul dark fibre in the region. Eastern Light is building a series of

Nordost | HI-FI Audio Cables

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

Nordost is the premier manufacturer of hifi audio cables and accessories in the consumer electronics industry. Over the past three decades, Nordost has

Trans-Arctic

The Arctic route features a shorter distance connecting Northern Europe with Asia. The Arctic route is attractive but challenging for subsea cables, as well as maritime transportations and vessels. There

New transatlantic fibre cable from Denmark to the US

By fourth quarter 2019, a new subsea fibre optic cable system will bring more capacity, diversity and reliability to the connectivity of Denmark and

Study begun for sustainable Norway-Canada submarine

Bulk Fiber Networks, which builds and operates fibre network infrastructure in the Nordics, the US and Europe, has begun a feasibility study in

Bulk Fiber Networks and WFN Strategies commence

Bulk Fiber Networks, a leading builder and operator of fibre network infrastructure in the Nordics, and WFN Strategies, a leading submarine cable

New subsea fibre-optic cable to connect Ireland and

A new subsea cable system called Havhingsten will connect Ireland with the Nordics region and the UK, boosting network connectivity.

Arctic Way

The Arctic Way Cable System is a 2,350 km submarine cable connecting mainland Norway, Jan Mayen, and Svalbard, owned by Space

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

Contact Us

Continue your research online:

Website: https://kenhardtprimary.co.za
Technical inquiry: https://kenhardtprimary.co.za/project-desk.html
African project coordination: Century City, Cape Town, Western Cape, South Africa

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved