



Greenland Connect from nature - to future

Introduction

The Greenland Connect submarine cable connects Greenland with Europe and North America via two cable legs between Newfoundland and Greenland and between Iceland and Greenland.

From Iceland, the cable connects to major tele communication hubs of Europe through interconnections with the FARICE-1 and DANICE submarine cable systems.

From Newfoundland, the Cable connects to major tele communication hubs of North America through interconnections with the Persona submarine cable system.

The Greenland Connect cable system consists of a westbound leg from Nuuk, Greenland to Newfoundland and an eastbound leg to Iceland. In total the system is 4.598 km in length.

For transmission to and from Canada, Iceland, Greenland, Scandinavia and Northern Europe, the Greenland Connect submarine cable is an obvious choice with regard to transmission quality and price.

Services offered on Greenland Connect

Standard offerings are bandwidth transmission services ranging from 100 Mbps Ethernet to 10 Gbps SDH or ethernet wavelengths (see reverse side for details).

Technology

The cable system is a repeated system with repeaters being fed power from all landing stations. To maximize protection of the cable, it is buried to the extent possible down to water depths in excess of 1.500 metres.

The landing stations are built to local standards with the highest possible protection against unauthorised entry, fire, etc. Power supply is 100% green energy from the public grid with backup provided by batteries and diesel generators. The cable has two fibre pairs specified for 128 x 10 Gbps wavelength each.

Maximum security

For transmission to and from locations in North America and Europe, the routing of the Greenland Connect submarine cable offers a route which is completely independent of other major transatlantic cables and hubs. It provides an attractive option to create the maximum resilience for your data transmission.



Green profile

Owners of internet services can position themselves as green by establishing their presence in locations where energy and cooling are inexpensive and where energy is provided from renewable resources.

Greenland Connect is powered 100% by hydroelectric and geothermal power. It is an obvious choice for any company wishing to establish a green profile.

TELE Greenland A/S

TELE Greenland A/S is the sole telecommunications service provider in Greenland. It is 100% owned by the Government. The company runs the telecommunications as well as the postal services in Greenland; it employs approx. 600 people all across Greenland. Annual turnover in 2008 was € 98,5 million with an EBIT result of € 15,5 million.

TELE Greenland A/S offers the same basic services at the same price level as comparable countries in Europe; this includes fixed network telephony, GSM, UMTS, broadband internet and business VPN. The company also runs a number of services as part of its public obligations. Among these are radio & TV broadcasting, air control radio, maritime radio and navigation systems.

Additional information and sales contact

Please direct inquiries for additional information and quotations to:

e-mail: Greenland-connect@tele.gl

phone: +299 341643 / +299 341642

Services offered

All services are delivered according to the appropriate standards from ETSI, ITU and the IETF. Standard interfacing is short haul, 1310 nm single mode optical for local interconnect.

Transparent wavelength

10 Gbps wavelength with the following standard interfacing options:

- SDH STM-64
- SONET OC-192
- 10G ethernet

Multiplexed bandwidth services

All standard levels of transport are offered with the following standard interfacing options:

- SDH, from STM-1 to STM-64
- Ethernet, from 100 Mbps to 10 Gbps

Additional services

- Backhaul to locations in North America, Europe and Iceland
- SDH to Sonet, transparent payload with header conversion (transmission to and from North America only).
- Ethernet sub rate capacity with day to day upgrade.

Subrate at 1..7 x STM-1 for 1 Gb ethernet interfaces
Subrate at 1..17 x STM-4 for 10 Gb ethernet interfaces

Non-standard capacity and interfacing can be provided upon request.

Co-location

TELE Greenland offers co-location for your transmission equipment at its POPs at Nuuk, Qaqortoq, Milton and Landeyjar.

Service characteristics:

Typical latency figures (one way):

Latency (examples)	Km	ms
Halifax – Milton	> 1000	8,2*
Milton – Nuuk	2050	10.4
Nuuk – Qaqortoq	813	4.4
Qaqortoq – Landeyjar	2006	10
Nuuk – Landeyjar	2547	12.9
Landeyjar – Copenhagen	2298	16.5*
Landeyjar – London	3171	18.5*

*: Depending on route

Service level:

TELE Greenland guarantees an uptime for the services at 99,66% on the Greenland Connect cable system during normal operations.

