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“Havtor” - a new submarine fiber optical cable providing the shortest and most secure crossing of the North Sea from Norway to Denmark

The new Havtor submarine fiber cable will link the datacenter markets in Norway and Denmark, providing new opportunities in both sides of the cable.

The Havtor submarine fiber cable is a new high-count submarine cable being developed to provide dark fibers between Norwegian datacentre locations and Hyperscalers.

This new route will be the fastest telecommunication connection from South-West Norway to Continental Europe. It is simply because the landing point in Norway will provide the shortest geographical route from the Norwegian west coastline to the largest internet exchange points in Germany (DE-SIX) and Netherlands (AMSIX).

Havtor is a 165km non-repeated submarine cable with 48 fiber pairs that will traverse the North Sea. The total project cost is estimated to be 14,5 MUSD and Havtor is expected to be ready for service in Q3 2021.

In 2019 Nordic Consulting with partners started the plans to deliver a new state-of-the-art and secure international subsea fibre cable connection from Lista Norway to Hanstholm in Denmark. Submarine cable specialist Dag Aanensen is the architect behind the new “Havtor” cable. Most recently Nordic Consulting delivered a full turn-key solution from business concept to a 40 MUSD investment decision for the England Cable system connecting Stavanger with Newcastle.

The partners and vendors cannot be disclosed (due to signed NDA’s) however they include world leading specialists within the subsea industry, including a Tier-1 provider.

The cable landing station in Norway will be at Lista Renewable Energy park, a 2000 acres already regulated datacentre site with dual power feed of 200MW and access to an abundance of 100% renewable electricity

(See video : <https://www.youtube.com/watch?v=EikGh18CLH8&t=52s>).

The cable landing station in Danmark will be located in Hanstholm, close to a previous Submarine cable landing station for the submarine cable Denmark – Norway 6.

Advantages of the Havtor submarine cable:

- a. Fastest data connection from South-West Norway to continental Europe
- b. Access to multiple dark fiber pairs
- c. Direct interconnection between large datacenter locations in Norway and Denmark.
- d. Most secure route between Norway and Denmark with no crossings of existing infrastructure.
- e. Increased high-speed interconnect communications will improve trade and education. Spark innovation amongst the next tech experts to capitalize on the immense value of data and help the industry to become more productive. The higher the number of cables the higher GDP and capita in the region.

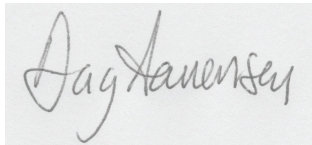
“The new Havtor submarine fiber cable will link the datacenter markets in Norway and Denmark, providing new opportunities in both sides of the cable.

Havtor will deliver the shortest route for time sensitive data and provide multiple fiber routes between the datacentre sites in Denmark and South-West of Norway.

Norway is the power hub for Europe, the Havtor cable will land in the heart of the Norwegian power sector delivering 100% renewable electricity.” Said Dag Aanensen CEO of Nordic Consulting AS

Place / Date: Asker, Norway 19.02.2020

Signature:

A handwritten signature in black ink that reads "Dag Aanensen". The signature is written in a cursive, flowing style.

DAG AANENSEN

CEO Nordic Consulting AS

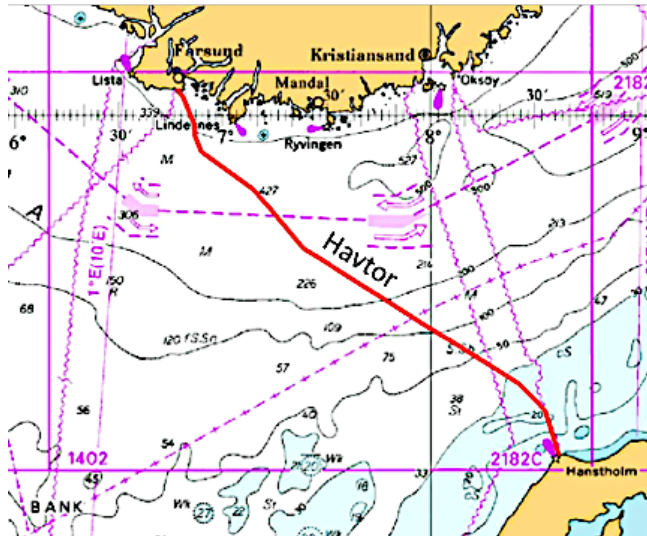
Picture Dag Aanensen



Map Illustrations:

Havtor route map

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- 48 fiber pairs
- Cable length: 165 km
- Burial depth: 1 to 3 m
- No crossings of active infrastructure
- Serve as backup for other cables

- Max 30 Tbps per fiberpair
- Latency Stavanger-Esbjerg : 3,3ms
- Dark Fiber / passive spectrum sharing / capacity 100 and 400 Gbps
- Fiber backhaul in Norway and Denmark

- Planed RFS: Q321
- 18 months lead time

Havtor – the North Sea loop

