



The extension of the Fenno-Skan link (Fenno-Skan 2) is a response to the needs of the electricity market. The submarine cable will increase the electricity transmission capacity between Finland and Sweden by approx. 40 per cent and integrate the Nordic electricity market even more closely. The project will reduce temporary differences between Finnish and Swedish electricity prices which can result if interconnection capacity is insufficient. The interconnection will also reduce losses in the Nordic transmission grids and improve power system security. Fenno-Skan 2 is one of five prioritized cross-sections recommended by Nordel.

News Corner

Construction works at Finnböle and Rauma are proceeding as planned. Firewalls between valve hall and transformer bunker are erected. Foundation plate of valve hall at Rauma was casted in the beginning of September.

500 kV DC converter valve was successfully type tested in spring 2010 in Ludvika.

The electrode replacement at Lautakari was finalized in May, existing copper loop was removed and disposed.

400 kV AC substation in Finnböle was commissioned in April 2010.

ABB has provided **almost 3000 technical reports**, studies, requirement specifications and drawings for customers' commenting and reviewing process.

Project Status

Nine production patches of **subsea cable are in progress** at Nexans' factory in Halden, Norway. We are expecting to have 97 km of tested cable on turntable at the end of year 2010.

Manufacturing of all main circuit equipment of converter stations are ongoing and a lot of factory testing will take place during October - November.

Factory System Testing for Fenno-Skan 2 and Fenno-Skan 1 Control and Protection systems is ongoing according to the schedule.

Site works in Finnböle and Rauma have engaged 18 092 working hours as per end of July. Occupational health and safety targets are met very well, one first aid injury reported.

Construction of **Dannebo-Finnböle** overhead line is proceeding well. Works continue with conductor stringing and erecting the rest of towers. 90% of foundations are ready.

The Fenno-Skan 2 project is running according to the time schedule.

Key milestones 2010

- Converter site activities started Q2/10
- Valve design was ready Q2/10
- Finnböle AC project was commissioned Q2/10
- Finish subsea cable information type tests Q3/10
- 97 km of subsea cable ready for shipment Q4/10



Setting up the casting mould at Rauma Summer 2010



Side view of converter transformer bunker (Rauma), existing pole in background

Current Contract Information

Vendor	Project	Contract Value	Status
Nexans Norway, AS	Submarine Cable	150 M€	Production
ABB AB	Converter Stations	110 M€	Construction/Production
Vattenfall Services Nordic	Dannebo-Finnböle OHL	23 M€	Construction
Siemens	Finnböle AC connection	7 M€	Handed over
Infratek	Rauma AC extension	4 M€	Handed over
Empower and subsuppliers	Electrode extension	2 M€	Handed over
Eltel Networks and Nexans Benelux	Rihtniemi-Rauma 500 kV OHL	5 M€	Handed over

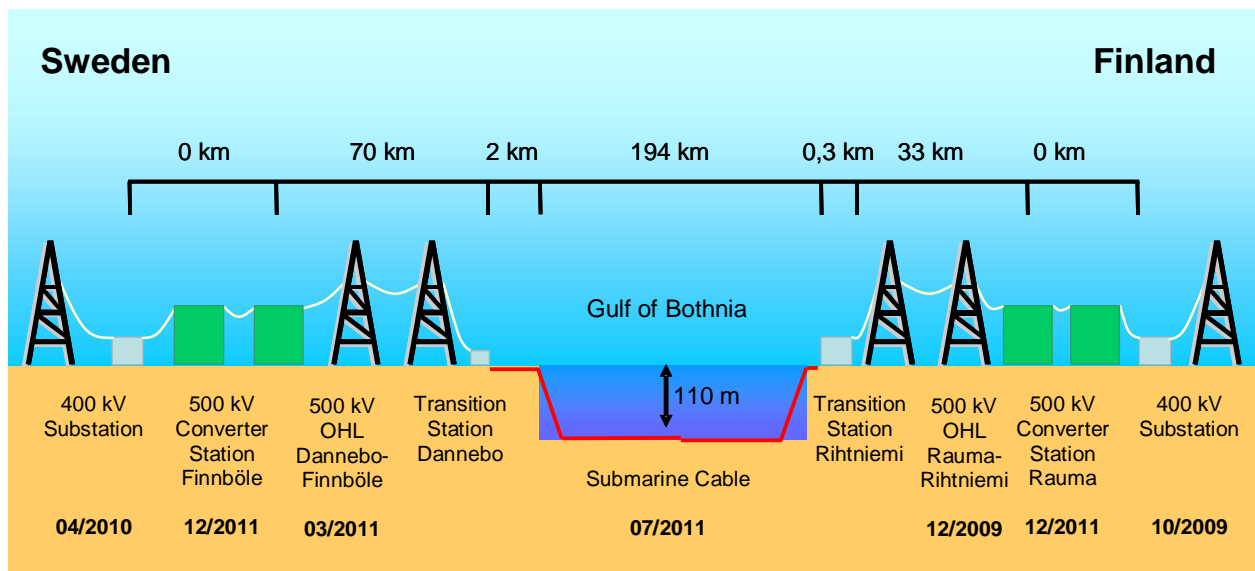
Project Time Schedule

	2005	2006	2007	2008	2009	2010	2011
Permissions Finland							
Permissions Sweden							
Specification							
Tendering							
Design of the vendor							
Construction and manufacturing							
Commissioning							

Fenno-Skan 2

- Capacity at the receiving end AC 800 MW
- Voltage 500 kV (DC)
- Current 1 670 A
- Budget 315 M€
- Overhead line in Finland 33 km
- Overhead line in Sweden 70 km
- Submarine cable 200 km
- To be commissioned by the end of 2011

The European Union has awarded TEN grant for the project.



Fenno-Skan 2 HVDC interconnection cross section

More information

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