

EstLink 2 Newsletter

elering
GENERATING OPPORTUNITIES

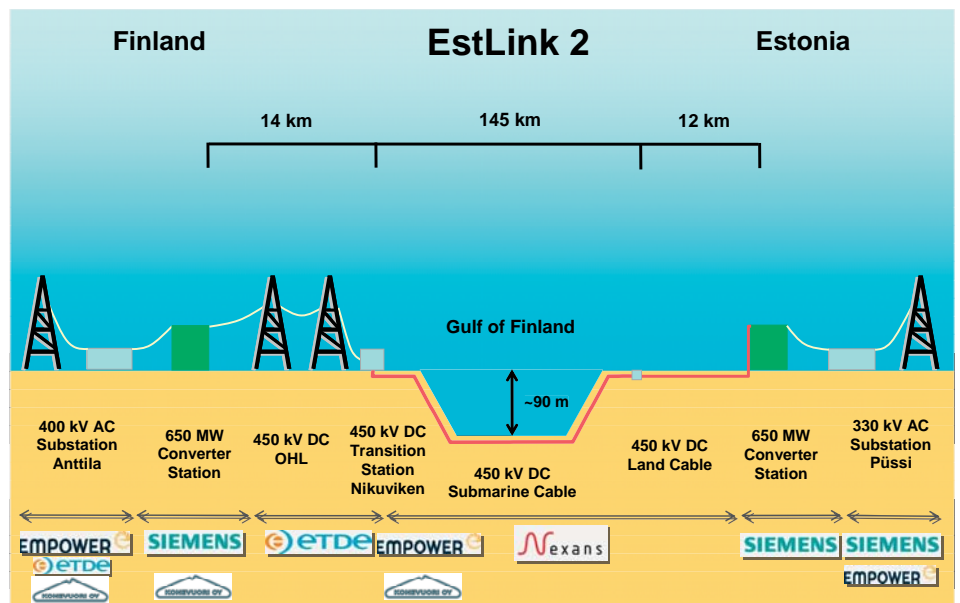


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EstLink 2 – new transmission link between Estonia and Finland will integrate the Baltic electricity market closer to the Nordic market and increase the supply security of electricity in the Baltic Sea region by increasing the total transmission capacity between Estonia and Finland to 1,000 megawatts.

GENERAL INFORMATION

- **Owners:** Elering AS and Fingrid Oyj
- **Budget:** ca 320 M€
 - Owners investments: ca 220 M€
 - EU grant: max 100 M€
- **Capacity:** 650 MW
- **Rated voltage:** 450 kV
- **Technique:** HVDC, Monopolar LCC with an insulated return
- **Total length:** ~170 km
- **Submarine cable:** ~145 km
- **Overhead line in Finland:** ~14 km
- **Underground cable in Estonia:** ~12 km
- **Commissioning:** in the beginning of 2014



EstLink 2 HVDC interconnection cross section

NEWS CORNER

Signing of Contract Agreement Püssi SS (January 2011) Elering signed a Contract Agreement with Siemens Osakeyhtiö including extension and renovation of Püssi AC substation. The value of the contract is approx. 1,5 million euros.


Signing of Contract Agreements of Cable, Converter Stations, Anttila SS and OHL (December 2010) Fingrid and Elering signed a contract with Nexans Norway AS on the delivery of the submarine cable. Contracts on the construction of the necessary converter substations in Finland and Estonia were signed with the consortium Siemens Aktiengesellschaft and Siemens Osakeyhtiö. The total contract price of the cable and converter substations is approx. 280 million euros.

The contract for the expansion of the Anttila substation and for the Nikuviken cable terminal station was awarded to Empower Oy. The value of the contract is approx. 10 million euros. The French company ETDE will build the direct current overhead line between Anttila and Nikuviken and carry out the transmission line arrangements at the Anttila substation. The value of this contract is approx. 6 million euros.

All principle permits issued (December 2010) The Finnish authorities issued the needed water, cross border, land access and economical zone permits before Christmas 2010. All necessary principle permits in Estonia were issued already earlier 2010 and 2009.

MAIN ACHIEVEMENTS

- Sea bed survey, environmental studies and permit applications were completed in April 2010
- Tender documents submitted to qualified Tenderers in May 2010
- EU final decision to grant 100M€ to EstLink 2 project in July 2010
- Tenders for all main HVDC components were received in September 2010
- Master Agreement and Construction Agreement between Elering and Fingrid was signed in November 2010
- Preparatory civil works started at Anttila SS and Nikuviken TS November 2010
- All principle permits were issued in December 2010
- Contract Agreements with main contracts were signed in December 2010
- Preparatory AC overhead line (OHL) works completed in Estonia in December 2010

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Anttila SS and Nikuviken TS preparatory civil works will be finalized in June 2011

KEY MILESTONES 2011

- Standard type tests of EstLink 2 cable
- Crossing agreements with crossed sea cable owners
- Land cable route preparation works to be started
- Converter stations' civil works to be started
- Püssi and Anttila AC substations renovation and extension works to be started
- Anttila- Nikuviken DC overhead line works to be started

SCHEDULE

| | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|---------------------------------|------|------|------|------|------|------|------|------|
| Preparatory works | | | | | | | | |
| Grid interconnection in Finland | | | | | | | | |
| Grid reinforcement in Estonia | | | | | | | | |
| Extension of Anttila substation | | | | | | | | |
| Extension of Püssi substation | | | | | | | | |
| HVDC cable and OHL | | | | | | | | |
| HVDC converter stations | | | | | | | | |
| Tests and commissioning | | | | | | | | |

Specification, tendering, etc. internal work
 Contractor planning, construction, testing etc.

MORE INFORMATION

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