



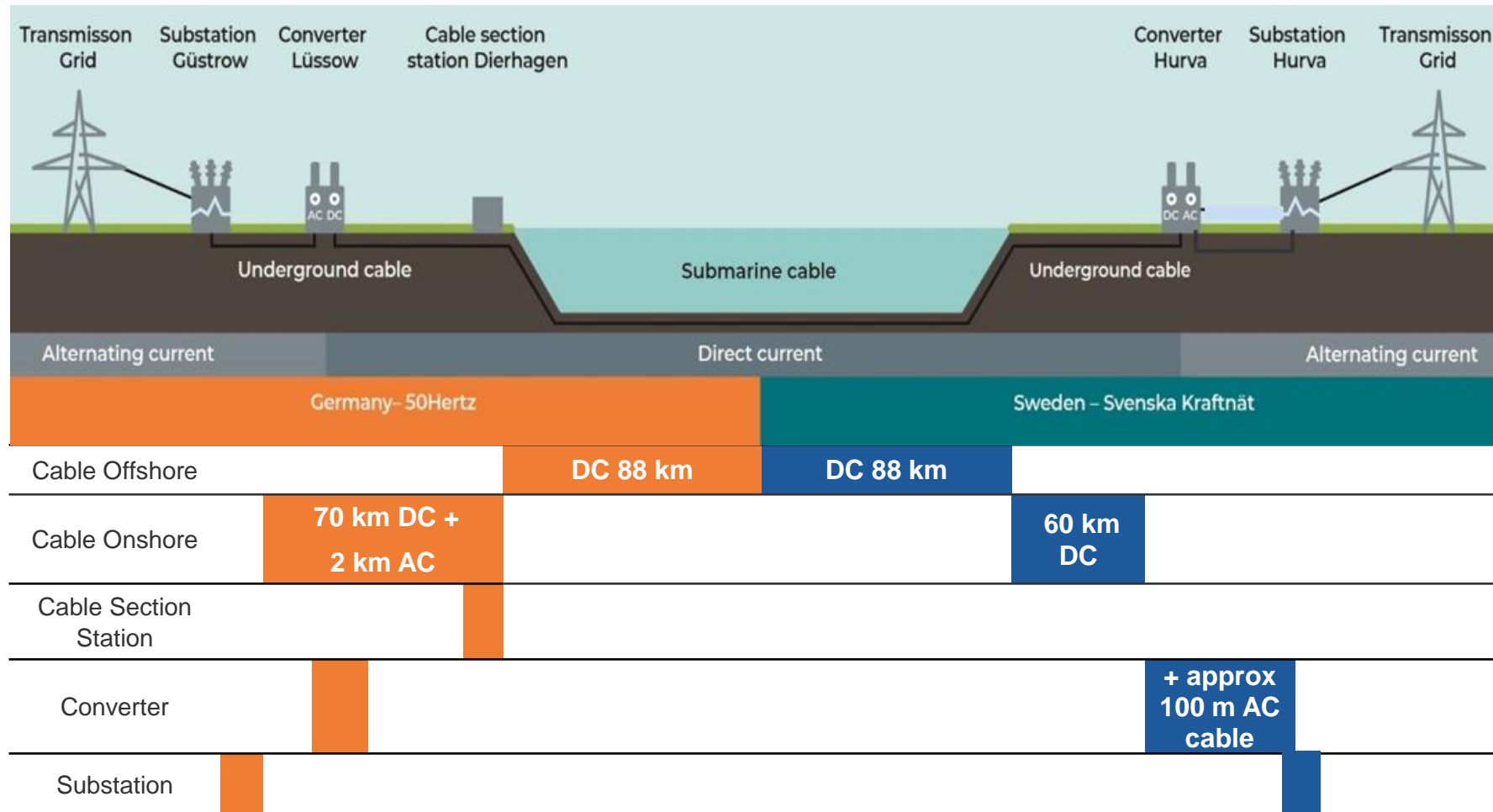
Hansa PowerBridge

RFI | Cable

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Overview of the total overall project



Main Technical Data

- Voltage Source Converter
- One symmetrical monopole
- Active Power: 700 MW
- DC voltage: +/- 300 kV
- AC voltage: Germany 380 kV, Sweden 400 kV
- AC frequency: 50 Hertz (Both sides – not synchronized)
- Extruded cable insulation
- The two submarine HVDC cables and a submarine FOC are bundled prior to laying. After laying the bundle shall be protected by burial or a rock berm
- Maximum water depth for submarine cable approximately 50 meter
- Underground cable in Germany installed in preinstalled ducts (ducts not in scope)
- Underground cable in Sweden installed directly buried.

Preliminary Scope of project:

- Supply and installation of 320 kV HVDC XLPE cable systems (including civil works)
 - underground cable system in Germany consisting of 2 x 67 km of underground cable, 140 underground joints and 6 air-insulated terminations
 - underground cable system in Sweden consisting of 2 x 56 km of underground cable, 120 underground joints and 2 air-insulated terminations
 - submarine cable system consisting of 2 x 176 km of submarine cable and 6 offshore joints
- Supply and installation of AC XLPE cable system (including civil works)
 - underground cable system in Germany consisting of 3 x 2 km of 380 kV underground cable, 3 underground joints and 6 air-insulated terminations
 - underground cable system in Germany consisting of 3 x 2 km of 30 kV underground cable, 6 underground joints and 6 air-insulated terminations
- Project specific type test reflecting above cable systems, to be completed before manufacturing start
- HDD at landfall in both Sweden and Germany (approx. 500 m)

Geographical Overview



Full system (left), Germany Underground cable route (right)