

With the support of CIGRE Committee B1 : Insulated Cables

WETS'15 QUESTIONNAIRE

World Energy Transmission System

Form N° ...

Achievement and experience in service of long length (> 10 km), HV, EHV and UHV electrical links by AC and DC insulated power cables

The results of the surveys for WETS'05 / WETS'07 / WETS'11 are available on the site jicable.org page Workshops. See also CD Roms WETS'07 and WETS'11

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|-----------|---------------------------------|------------------|
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1 – HV, EHV and UHV Insulated power cables AC links

2 - HV, EHV and UHV insulated power cables DC links

| 2.1 – Geographical situat | ion of the link: |
|--|--|
| Country: | GERMANY |
| Area : | NORTH SEA |
| 2.2 - Characteristics of th | ne link: |
| Network : | OFFSHORE WINDFARMS |
| Link name : | BORWIN 2 |
| Nominal power (MW): | 800 |
| Nominal voltage (kV): | 300 |
| Link length (km): | 125 km SUBMARINE + 75 km LAND |
| Number of circuits : | _ONE BIPOLE |
| Cable type : Manufacterer(s) | ne cables and accessories: _ EXTRUDED INSULATION _ PRYSMIAN und (in tunnels, in ducts, in concrete, directly buried), |
| submarine (embedding | g depth, cable protections) le bipole is laid in bundle on the sea bottom in |
| trench at a depth of | 1.5-3 m, the land cable bipole is laid buried in trench |
| Forced cooling: | |
| Yes:, type:_ | |
| No: X | |
| Insulating material : Polymer, paper, | Extruded Polymer |

| | Characteristics of the | Outdoor terminations |
|------------|---|---|
| | accessories: Testing of the link (before commissioning, and | _After laying the HVDC cable system is subjected to the DC voltage test according to the CIGRE TB 496. No test during operation is planned |
| | during operation): | |
| 2.4 | What are the reasor | ns for choosing this technology? |
| | of the connection and offered by the HVDC | sion technology has been chosen in reasons of the length the power to be transmitted. In addition to the benefits transmission, the technology was also chosen to minimize pient. |
| netv | | culties of integration of the conversion station in the ons (problem of protection of the link and of the |
| | | pect of the offshore HVDC project is the realization of the ations having reduced dimensions |
| 2.6 | Operating results of | f the link: |
| | DC link and Converter | rs: |
| | _The link is in service | |
| 2.7 | – Publications or ava | ilable documents concerning this link: |
| | None | |
| | | es concerning terrestrial or ated power cables AC or DC links |
| the _Or | case of tunnel (e.g., to major issue of the lo | s of major projects and planning issues in particular in the problem of routing of large drums)? Ing terrestrial cable AC or DC connections is the e and heavy drums that requires particular innovative |

logistics solutions _____

