

INP Reference

Extra-high voltage overhead power lines with underground cable sections

LOCATION: Emden, Germany - Conneforde, Germany

SYSTEM/TECHNOLOGY: 380-kV extra-high voltage level

SERVICES: Commissioning, Project management, Quality assurance, Site management, Documentation, As-built status and data recording, Detail engineering, Installation supervision

INDUSTRY BRANCH/TYPE OF PLANT: Transmission & Distribution

CLIENT: TenneT TSO GmbH

PROJECT SIZE: > € 720 million

Tasks

The 380-kV grid development project Conneforde – Emden East is necessary for linking offshore grid connection systems (BorWin 3 and 4) and for transmission of the successively rising onshore wind supply from the region.

Project description

The two substations Emden/Borssum and Conneforde (Wiefelstede municipality, Ammerland administrative district) have previously been connected to each other via a 2-system 220-kV overhead power line.

The supervision is undertaken by TenneT TSO GmbH. To increase the performance of this connection owing to the increased power generation from offshore wind installations, a renewal of the line route as a 4-system line and increase in the voltage level to 380 kV is necessary. At the same time, the connection is to be routed to the newly erected substation Emden/East. At maximum operational capacity utilization (n-1 case), 3600 A per circuit are to be transmitted.

INP Services

Supervision, inspection and clarification of the previous basic engineering and construction feasibility with consideration of the nature conservation regulations and specifications. Supervision of the construction phase.

POINTS OF CONTACT



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