

# DolWin2

135-kilometre-long and 916-megawatt-strong direct current connection



## Cable length

90 km submarine cable  
and 45 km land cable



## Grid connection point

Converter station  
Dörpen/West



## Status of project

In operation  
since April 2016



Photo: Offshore converter platform DolWin beta



### About the project

Since 2016, three wind farms have been connected to the transmission grid via the 135-kilometre-long DolWin2 grid connection.

In addition to 45 kilometres of submarine cable, TenneT also laid 90 kilometres of land cable, which run from the coast to the onshore converter station Dörpen/West in Emsland. There, the direct current is converted back into three-phase alternating current, fed into the transmission grid by the transformer station and redistributed to consumption-intensive regions.

For DolWin beta, the heart of the DolWin2 grid connection,

TenneT opted for an innovative installation concept: the platform was anchored to the seabed by gravity alone. This design simplified the installation of the offshore converter platform, as it meant that no piles had to be driven into the seabed and no crane ship was required. To stabilise the platform, water was slowly pumped into the six steel legs during installation, causing it to sink to the seabed. Subsequently, the water in the steel legs was replaced by gravel and sand to fix the platform permanently. DolWin beta thus defies the harsh North Sea conditions and is always calm in the water even in strong waves.

TenneT is a leading European grid operator committed to a secure and reliable electricity supply - 24 hours a day, 365 days a year. We are shaping the energy transition for a sustainable energy future. As the first cross-border transmission system operator, we plan, build and operate an almost 24,500 kilometres long high and extra-high voltage grid in the Netherlands and Germany and are one of the largest investors in national and international electricity grids, on land and at sea. Every day, our 6,600 employees give their best and ensure with responsibility, courage and networking that more than 42 million end consumers can rely on a stable electricity supply.

**Lighting the way ahead together**

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