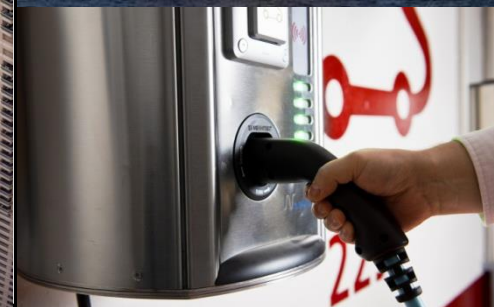


Nexans' Oil&Gas & Energy Competences and Capabilities creating opportunities in renewables

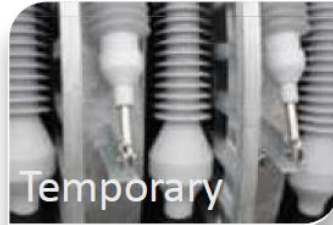
Vincent Dessale,
Senior Executive VP Subsea & Land Systems



Subsea & Land Systems

Reliable and secure **high energy transmission** in air, ground, water and tunnel applications

Your expert for **new, upgrading or temporary** transmission systems



Energy Transition & Innovation

Turn-key supplier

In-house capability to design and deliver turnkey solutions:

- from R&D to completely installed and commissioned cable systems
- including engineering of all required cable laying operations and cable protection work



Halden plant

Competence center for **Subsea power cables** (paper insulated and XLPE), **Umbilicals** and cables for **Direct Electrical Heating**



Goose Creek Plant, South Carolina, USA
Land High Voltage Cables
Update for Submarine High Voltage (2020)



Futtsu Plant, Tokyo:
Submarine & Land paper insulated HV Cables

Transportation and Installation Works



Key projects delivered all over the world

Inner Oslofjord (2018)
420kV AC, 7x(2,9+2,3) km

Statoil, **Ormen Lange** (2012)
UMB, 250 km, depth: 890m,
Infield UMB: 6,5km, depth: 870m

Skagerrak 1&2 (1976)
250kV DC, 2x127km

Skagerrak 4 (2014)
525kV DC, 150km

Beatrice OWF (2018)
245kV AC, 2x70km

NSL (2021)
525kV DC, 500km

NordLink (2020)
525kV DC, 2x350km

Vancouver Pole 1 (1969)
300kV DC, 3x33km

Hywind Scotland (2017)
36kV AC, 36 km

Horns Rev 2 (2008)
170kV AC, 42km

Maritime Link (2017)
500 kV DC, 340 km

East Anglia 1 OWF (2020)
245kV AC, 2x85km

DolWin6 (2022)
320kV DC, 90km

Mallorca - Ibiza (2015)
145kV AC, 120km

Mon.Ita (2015)
500kV DC, 415km

BP **Shah Deniz** (2016)
DEH, 18km, depth: 518m

Chevron **Jack&St Malo** (2014)
PUMB, 42km, depth: 2100m

BP **West Nile Delta**
2014: UMB, 48km,
2016: UMB, 100km

ExxonMobil **Julia** (2013)
PUMB, 233km, depth: 2300m

Saudi Aramco **Wasit** (2012)
PUMB, 46km, 60m

Shell **NaKika** (2003)
UMB, 94 km, depth: 2300m

Total **Usan** (2011)
UMB, 67 km, depth: 800 m

Chevron **Lianzi** (2015)
DEH, 43km, depth:1050 m

Petrobras **Tambau** (2011)
UMB, 60km, depth:1500m

Woodside **Greater Enfield** (2016)
PUMB, 31km, depth: 915m

Cook Strait (1991)
350kV DC, 3x40km

Grid

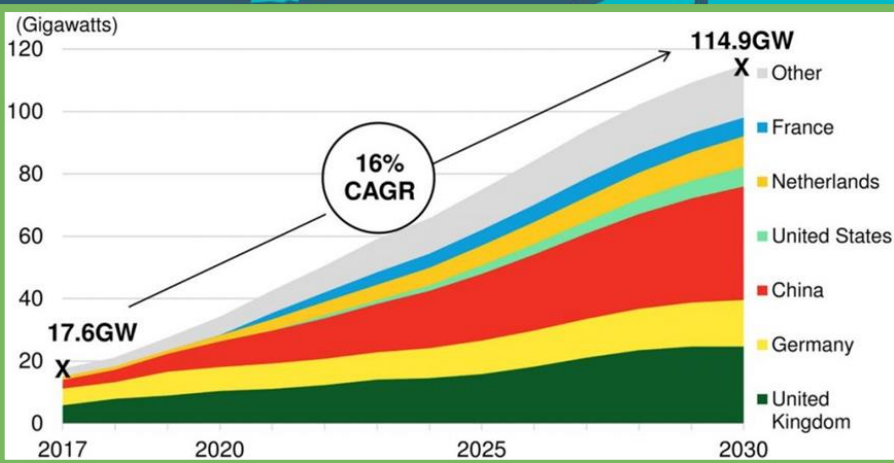
Oil & Gas

Offshore Wind

In Progress

Nexans submarine cables

Offshore wind



Nexans is present with cable solutions in approx. 50% of the 15,8 GW installed by 2017 in Europe.

Beatrice Offshore Windfarm

Largest Windfarm in UK

245 kV 3-core XLPE submarine cable



Description:

2 x 70 km of XLPE 245 kV
(3x1x1200/1600 mm²)
6 x 20 km onshore cables

Water depth: 150 m
Capacity: 688 MW
Year: 2016-2019



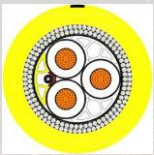
Customer:

Beatrice Offshore Windfarm
Ltd.

Hywind Scotland

1st world's floating wind farm

36 kV dynamic submarine cable system



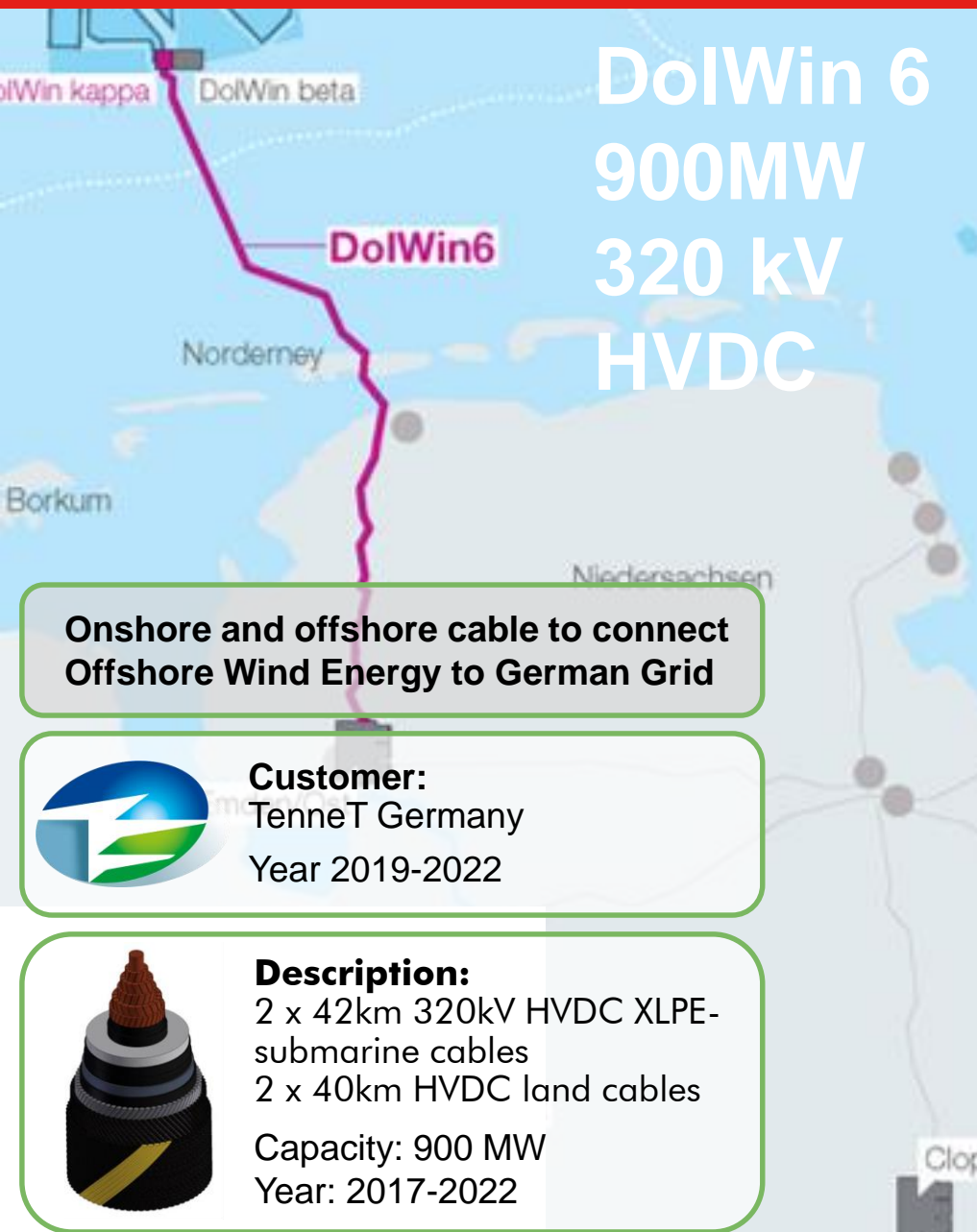
Description:

37 km of XLPE 36 kV
3-core dynamic and statis

Year: 2016-2017



Customer:
Statoil




DoIWin 6

900MW

320 kV

HVDC

Onshore and offshore cable to connect Offshore Wind Energy to German Grid

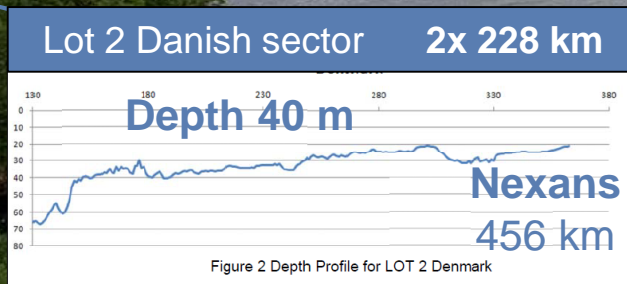
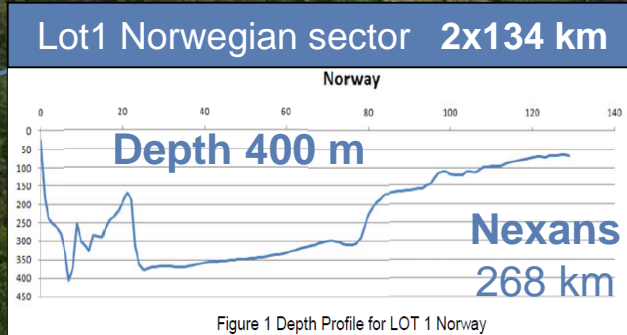
 **Customer:**
TenneT Germany
Year 2019-2022

 **Description:**
2 x 42km 320kV HVDC XLPE-submarine cables
2 x 40km HVDC land cables
Capacity: 900 MW
Year: 2017-2022

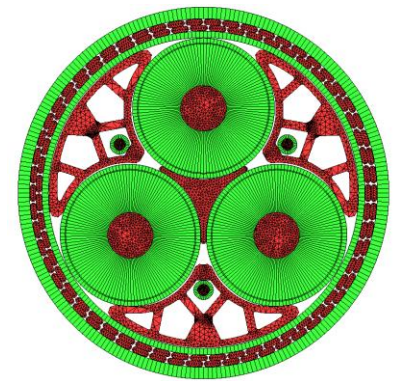
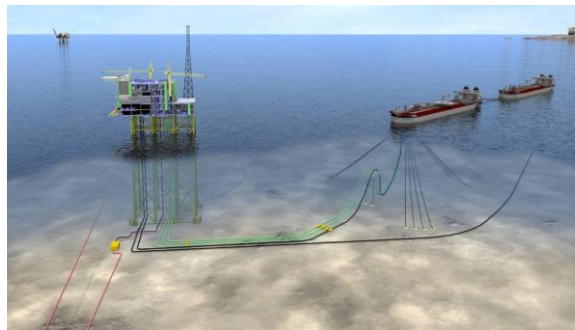
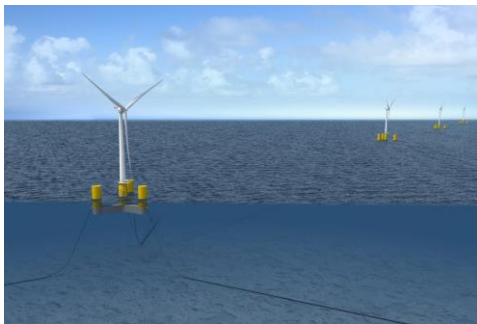


Longer interconnections NordLink – Norway-Germany

1140 km of 500 kV HVDC cable (2 poles)



- Nexans is ideally positioned to handle this **growing complexity**, by its **dual technology and competencies** in Energy and Oil & Gas (Platforms electrified from Shore)
- **Leading track record** in HVDC and HVAC, umbilical and DEH systems
- **Longstanding experience** in complex cable laying and protection marine operations
- **Reliability** in turn-key projects



HV dynamic cables



**Thank you
for your
attention!**

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