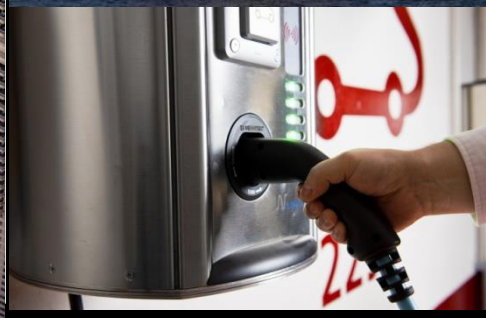
Nexans' Oil&Gas & Energy Competences and Capabilities creating opportunities in renewables

Vincent Dessale,
Senior Executive VP Subsea & Land Systems



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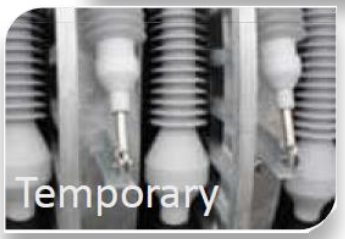
Subsea & Land Systems

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

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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

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Halden plant

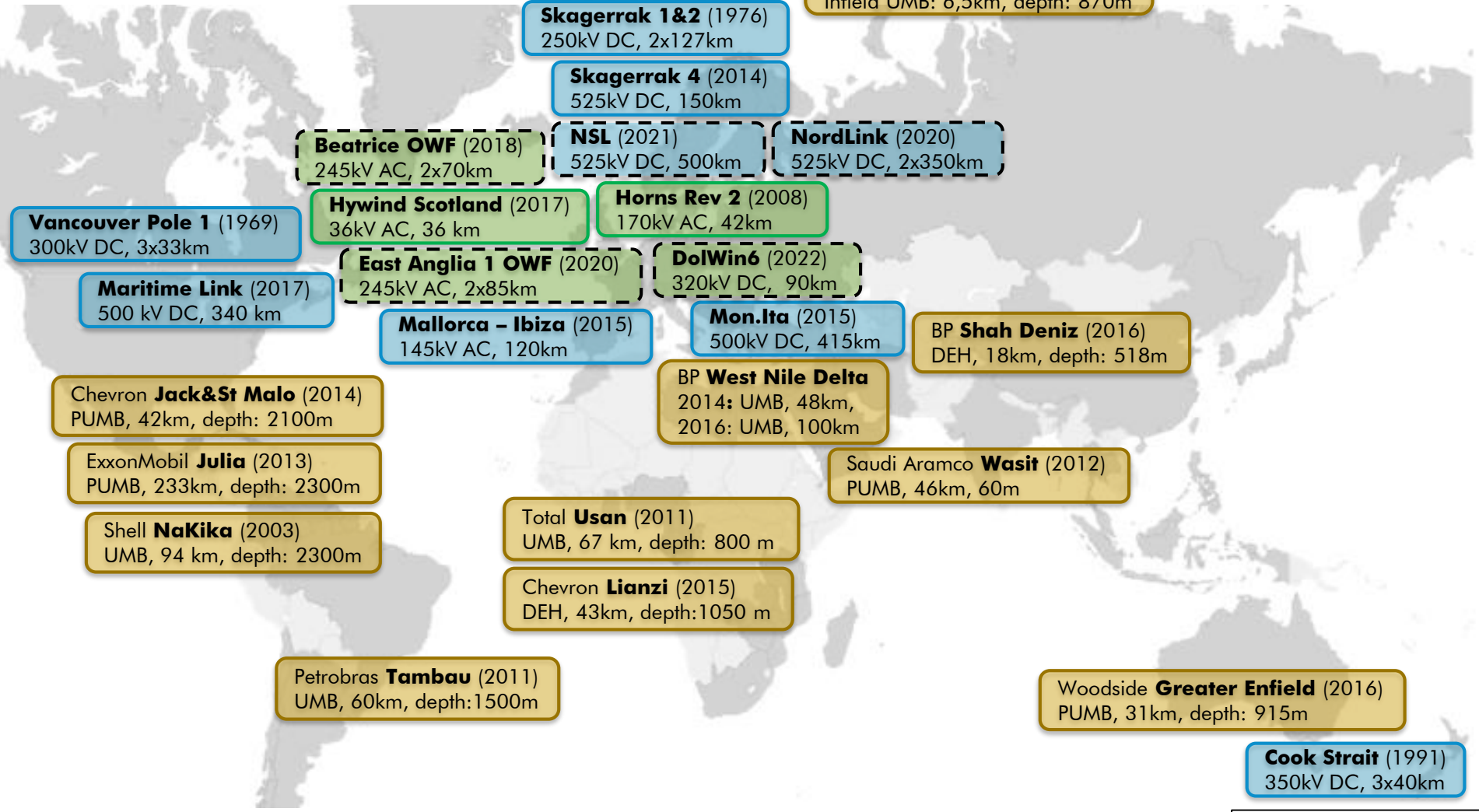
Competence center for **Subsea power cables** (paper insulated and XLPE), **Umbilicals** and cables for **Direct Electrical Heating**

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



Grid | **Oil & Gas** | **Offshore Wind** | **In Progress**

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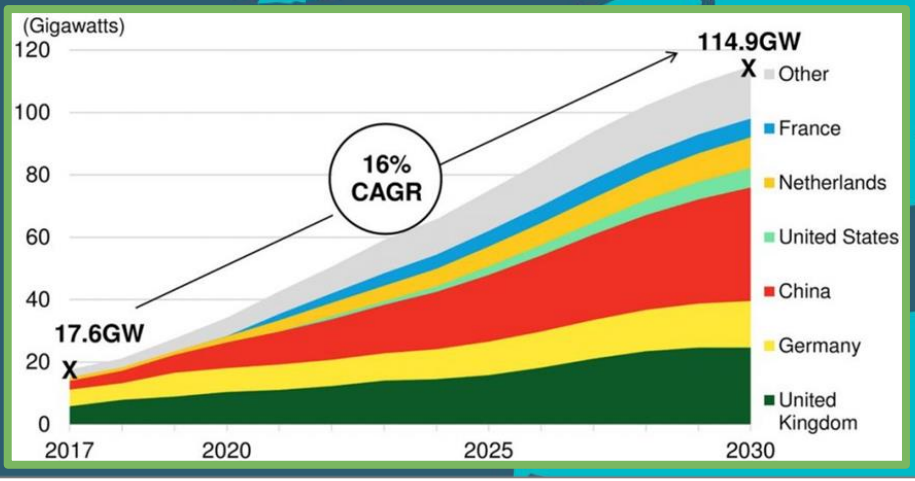
Nexans submarine cables
Offshore wind



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

Source: Bloomberg New Energy Finance

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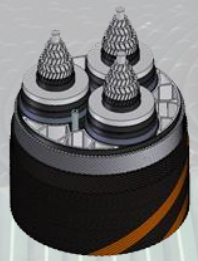
Beatrice Offshore Windfarm
Largest Windfarm in UK
245 kV 3-core XLPE submarine cable



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.

Nexans

Hywind Scotland
1st world's floating wind farm
36 kV dynamic submarine cable system

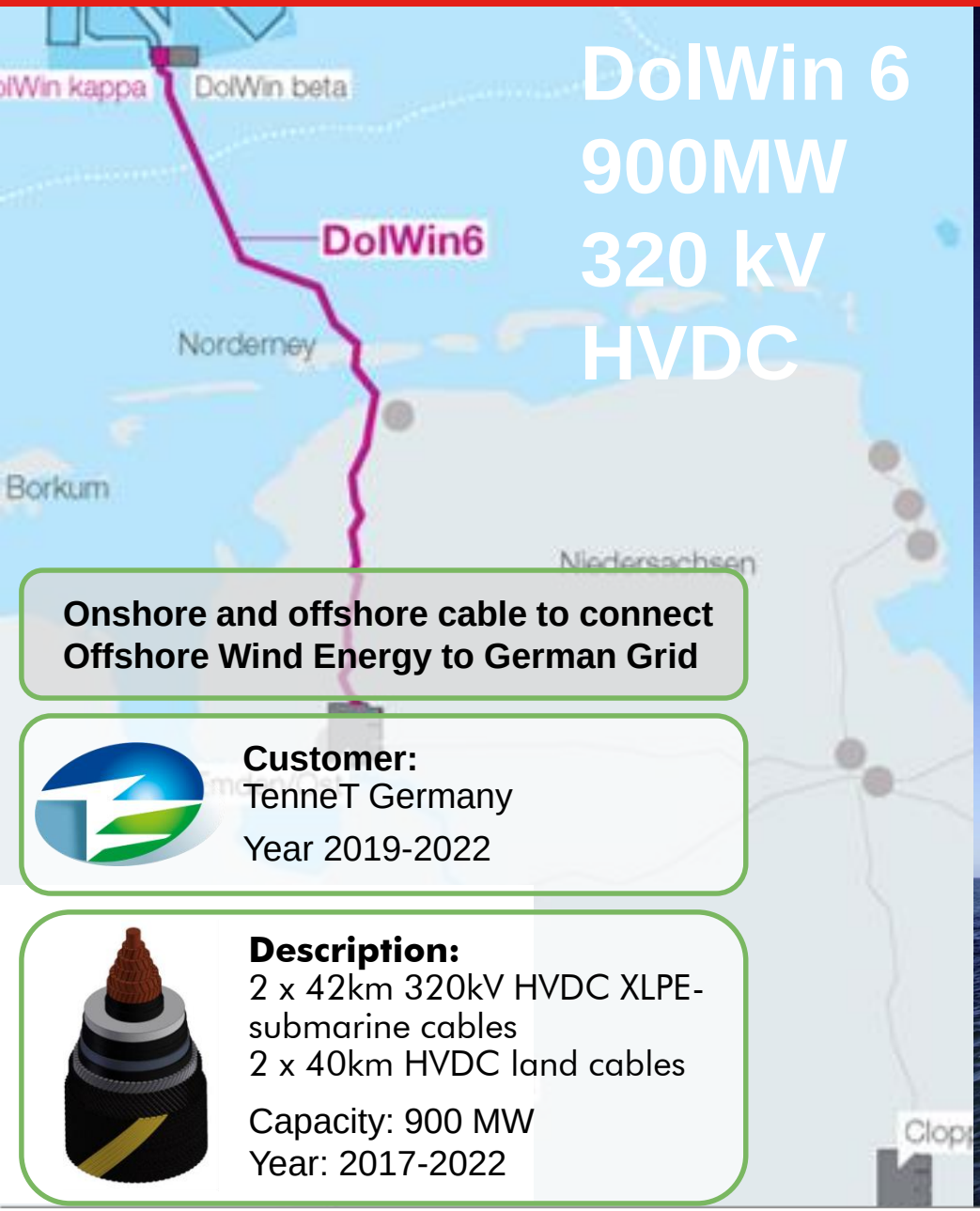
Description:
37 km of XLPE 36 kV
3-core dynamic and statis

Year: 2016-2017

Customer:
Statoil

Nexans

DolWin 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

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Longer interconnections
NordLink – Norway-Germany

1140 km of 500 kV HVDC cable (2 poles)

Lot1 Norwegian sector **2x134 km**

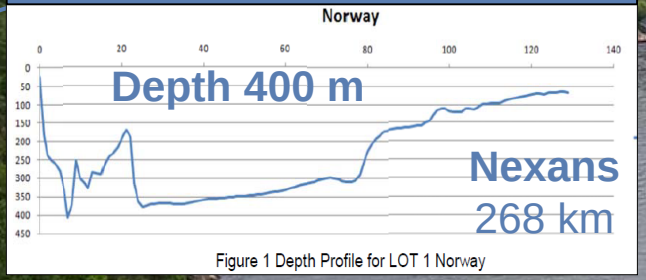


Figure 1 Depth Profile for LOT 1 Norway

Lot 2 Danish sector **2x 228 km**

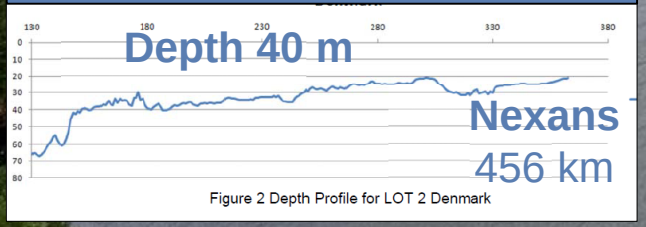


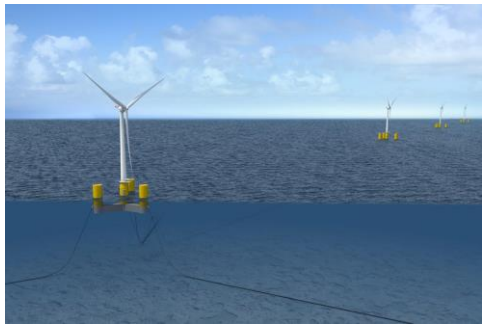
Figure 2 Depth Profile for LOT 2 Denmark

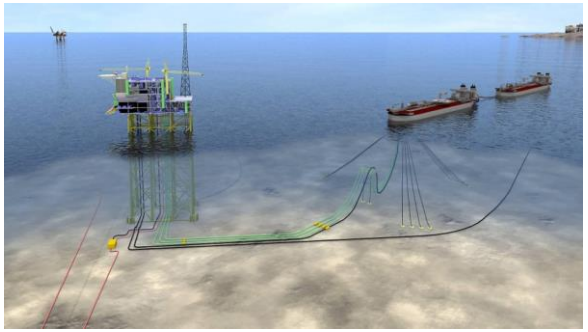
- Nexans is ideally positioned to handle this **growing complexity**, by its **dual technology and competencies** in Energy and Oil & Gas (Platforms electrified from Shore)

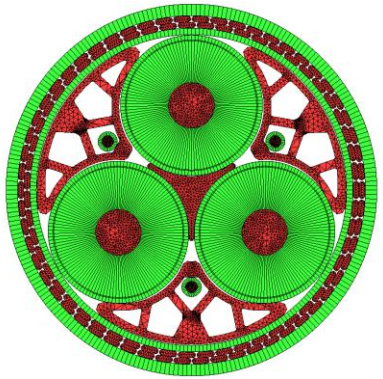
- **Leading track record** in HVDC and HVAC, umbilical and DEH systems

- **Longstanding experience** in complex cable laying and protection marine operations

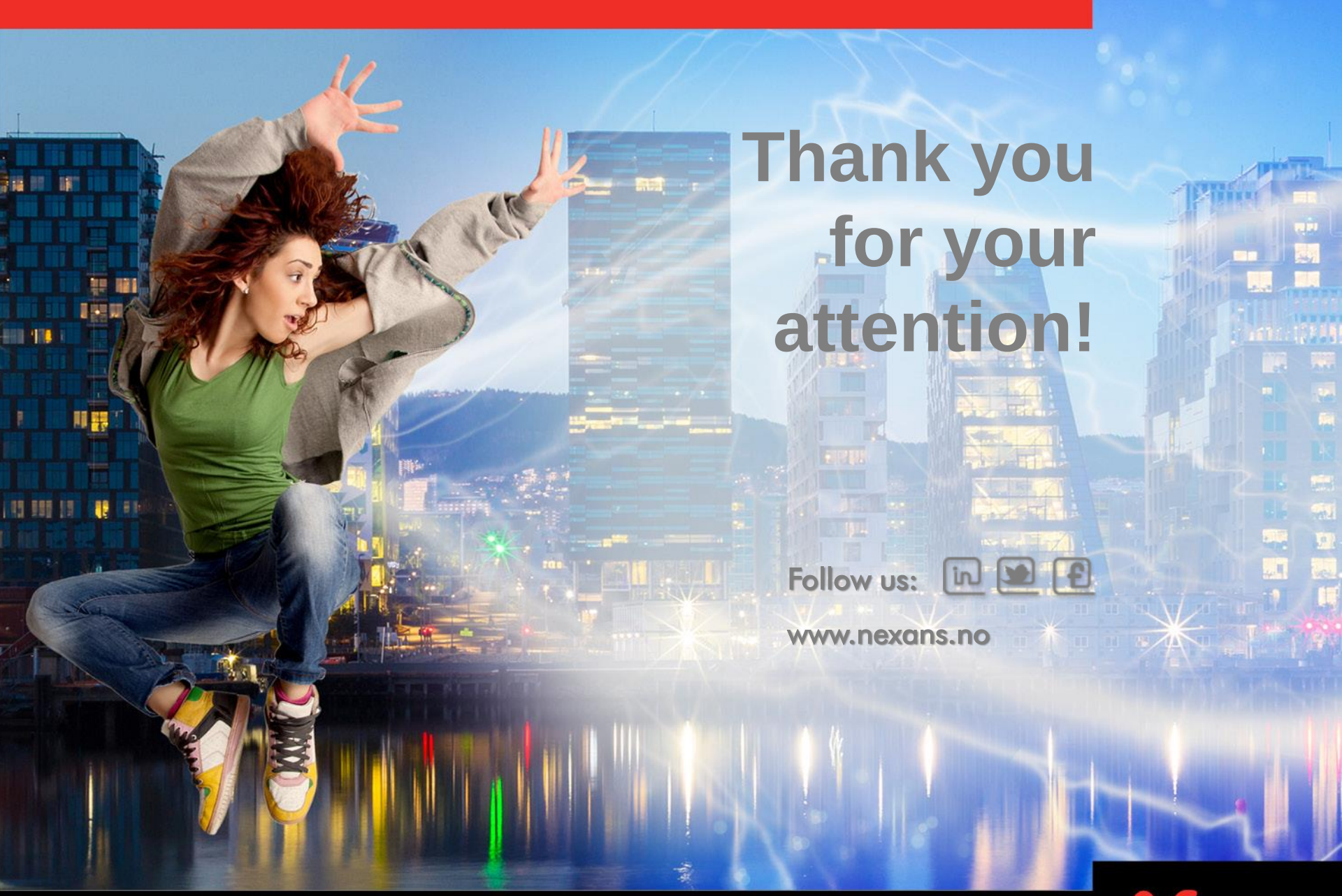
- **Reliability** in turn-key projects







HV dynamic cables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