

Nexans' Competence and capabilities creating opportunities in renewables

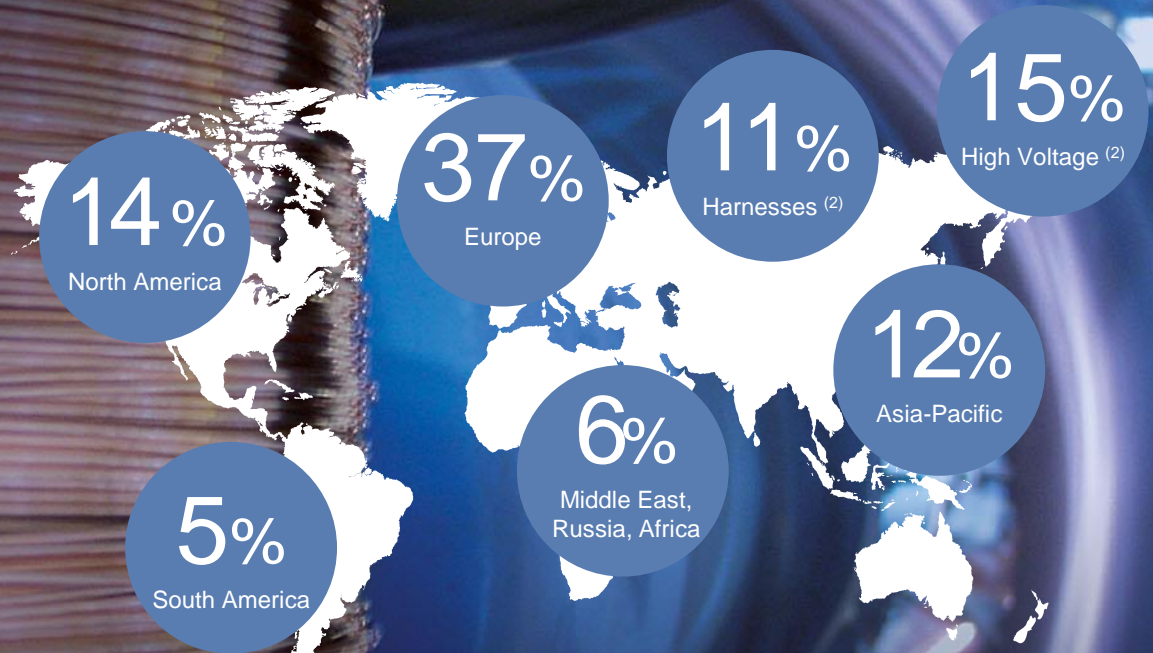
Vincent Dessale - Senior Executive VP Subsea & Land Systems



Nexans - a worldwide leading expert in the cable industry

Sales in 2018 of about 6.5 billion Euros ⁽¹⁾

Listed on the Euronext Paris



(1) By origin, at constant metal prices.

(2) Global business group.

Supplier of Turn-key solution & systems for Interconnectors & Offshore Wind Farms

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



Worldwide footprint

Plants in Halden (No), Goose Creek (USA), Futtsu (Japan)



Halden Plant, Norway Subsea & Land Paper & XLPE HV Cables



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



Futtsu plant, Tokyo, Japan
Subsea & Land Paper Insulated HV Cables

Nexans solutions supports the strong demand in interconnectors & offshore wind farms, enablers of green energy mega trend

Interconnectors

The European Union's (EU) commitment towards a sustainable low-carbon European economy by 2050, requires a well-functioning **trans-European electricity** market which can **integrate renewable** energy sources, target being at **15% electrical interconnectivity**

Offshore Wind Farms

Over 220 GW until 2029, and floating OWF x 3 by 2022

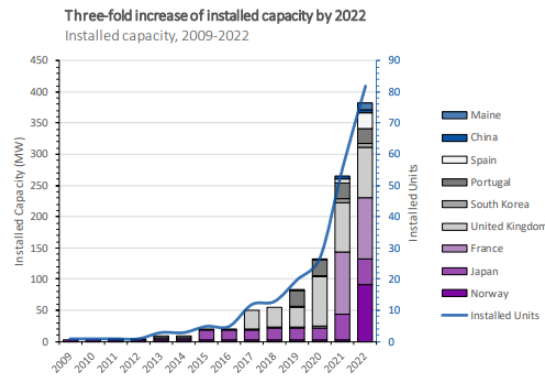
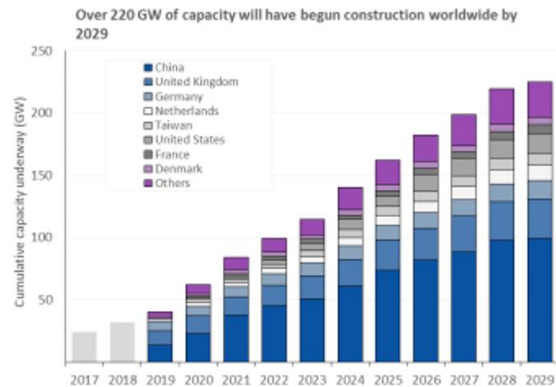


Figure 1. Estimated cumulative installed floating wind capacity to 2022, plus cumulative units

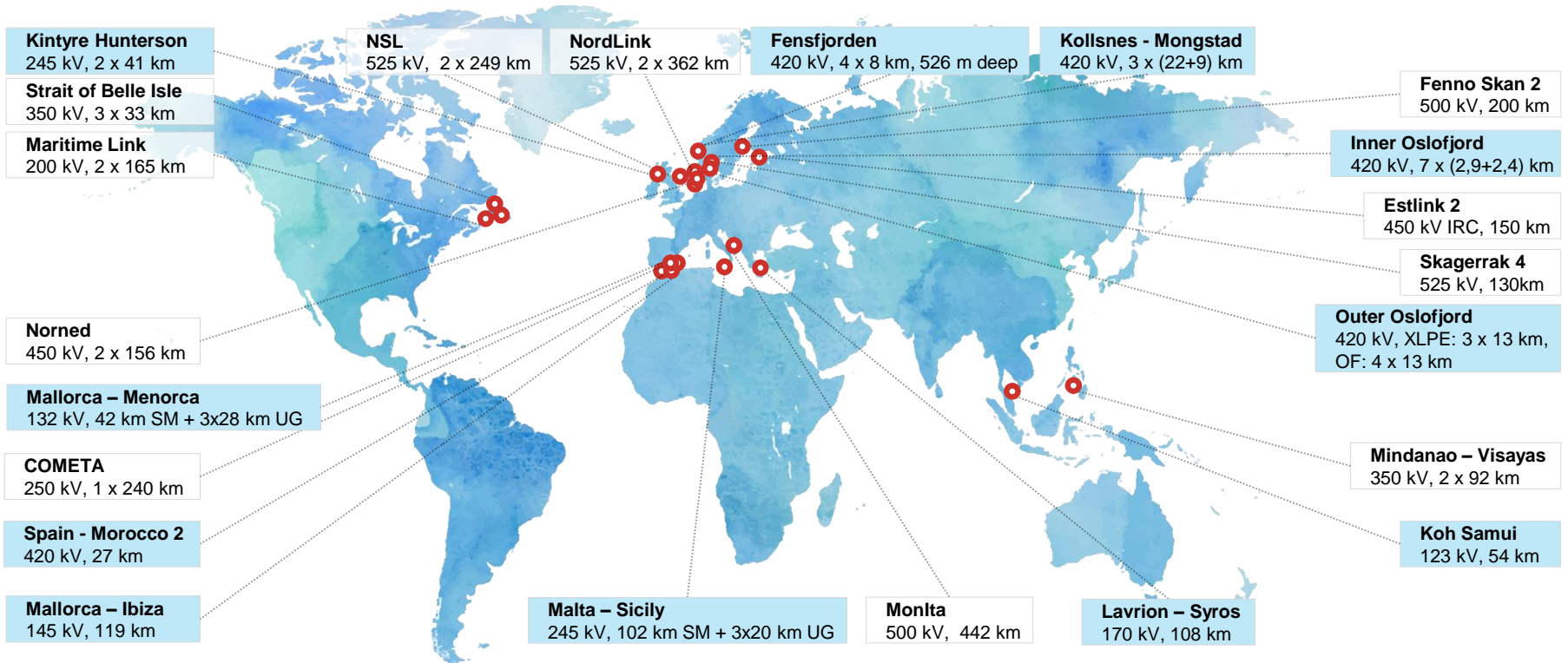
Nexans supplied the dynamic cables for the world's first installed floating turbine, Hywind (Equinor) and for the world's first pilot floating wind farm, Hywind Scotland (Equinor).

Key projects

Subsea grid connections

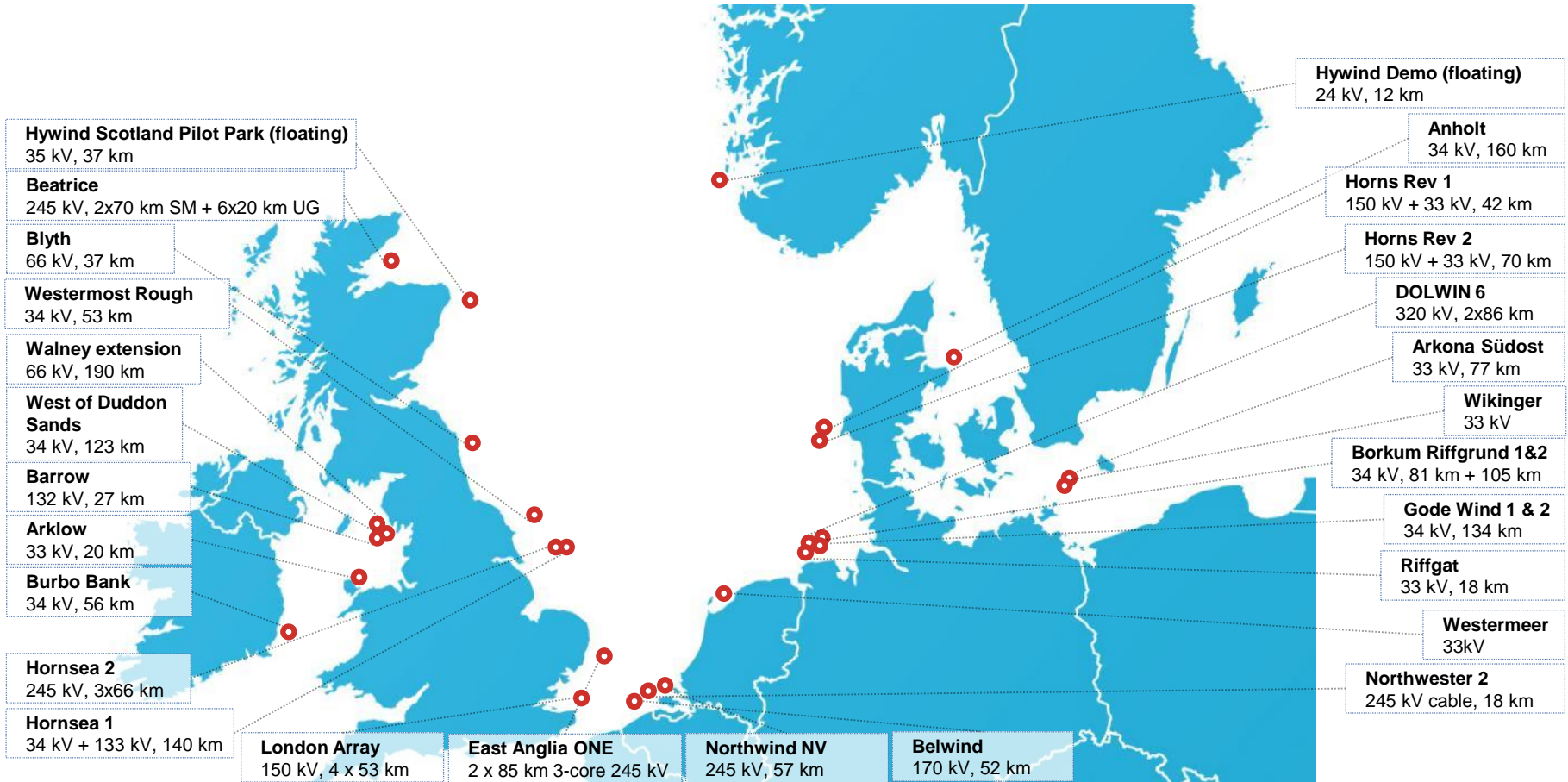
HVAC

HVDC



Key projects

Offshore wind



Nexans **innovation & reliability** contributes to the market development and needs



Constantly reduce cost of connection to shore/grid cost to balance subsidies reduction



NEW CONDUCTOR & ARMOURING DESIGN

- Aluminium conductor, **reducing weight & costs**
- From steel to polymer, **reducing weight & costs**



Increasingly longer cable distances from shore



HVDC EXTRUDED CABLES

- **Higher transmission capacity over longer distances** facilitating integration of renewable energy



Installation in ever deeper waters



NEXANS AURORA NEW LAYING VESSEL

- **Extended weight & length capacity**



Capacity constraints



FLEXIBILITY IN MANUFACTURING

- One plant in each area of development: Europe, USA,



Low lifecycle cost





IMR SERVICES

- Full Inspection, Maintenance & Repair offer



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for your
attention!**

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