

# Product Spotlight

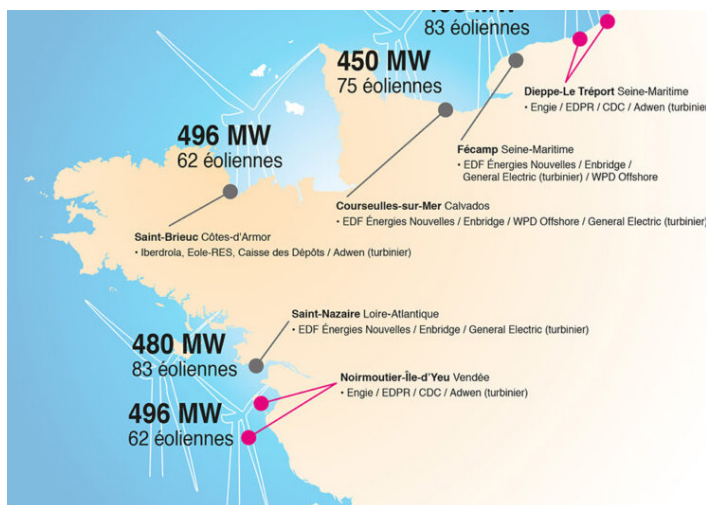
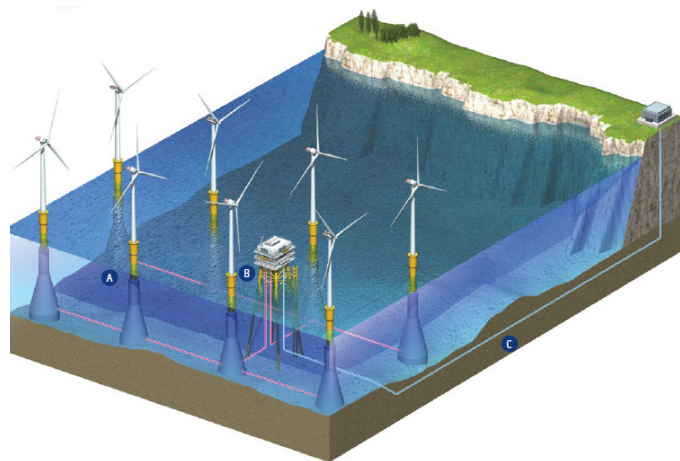
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## OPTICAL TRANSITION BOX 96 FIBRES

### ENVIRONMENT AND APPLICATION

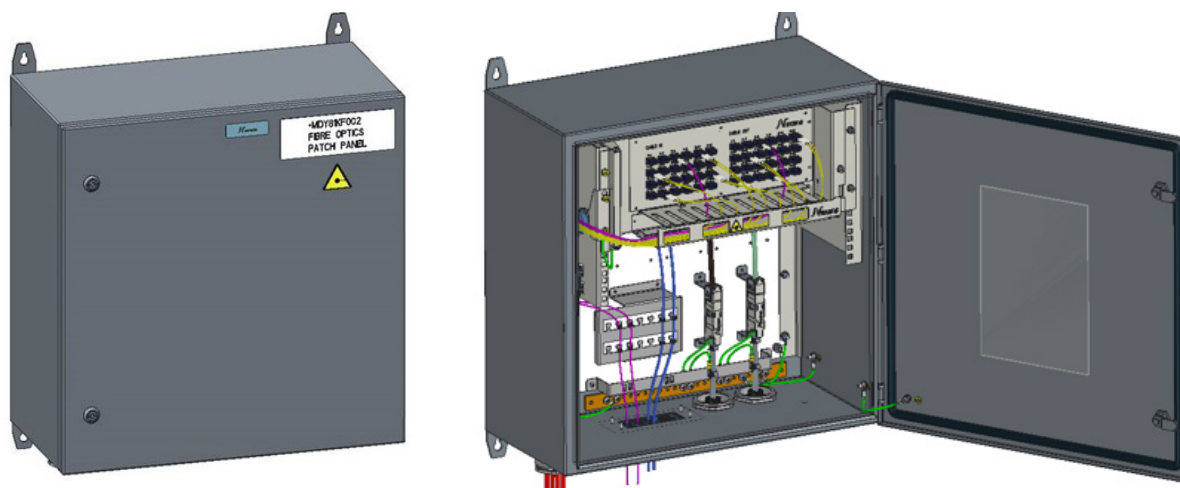
Nexans has the expertise to outfit large offshore wind turbines, interconnect them in complete wind-farms parks, and link them to distant or local grids. Offshore wind is one of the more powerful sources of renewable energy. Power fluctuations are minimal due to prevalent ocean wind patterns. And the need for standby generator capacity for peak load servicing is largely eliminated through accurate weather forecasting combined with remote database control and management. This reduces costs, enhances network stability, and contributes to a more balanced « clean » power supply.



In Europe, and in future across all continents, offshore wind is playing a crucial role by increasing the share of renewable electricity supplies. This is the target of many countries since the Kyoto Protocol, and recently reinforced by the Paris Protocol during the COP 21. As wind turbines are interconnected together, hybrid cables (power + fibre) are used and terminated in the transition point located at the base of the wind turbine. Such installation is under deployment in French Saint-Nazaire wind farm park.

# PRODUCT DESCRIPTION

The Optical Transition box is made out of metallic stainless steel 316L. A patching and splicing module is mounted to accommodate up to 96 fibres, and 96 LC-UPC adaptors. The design allows to connect up to 4 incoming hybrid cables coming from other turbines and 4 breakout cables, each with 12 fibres. Specific IP66 cable glands for breakout cables and fibre cables are mounted, ready to receive cables.



| Reference | Description                 | Dimensions (mm) | Weight (kg) | Packaging                  |
|-----------|-----------------------------|-----------------|-------------|----------------------------|
| 10283569  | OPTICAL TRANSITION BOX 96OF | 600 x 600 x 300 | 30          | maritime wood box (NIMP15) |

## MAIN ADVANTAGES

- Designed for harsh and marine environments
- Secure locking mechanism
- Compliant with ISO 9001, ISO 14001 and OHSAS 18001
- Delivered fully equipped with adaptors and pigtails, mounted and tested, ready for termination