



## Application

Terminal operators require ever-increasing performance of machines and methods, to boost productivity and reduce the environmental footprint of port operation. This has led to the technologically advanced machines in use today. These special, movable equipment require medium voltage flexible reeling cables for power supply for instance, suitable for operation under the most extreme conditions and environmental friendly.

Prysmian and Draka branded flexible reeling, festoon, basket and chain cables for cranes and material handling equipment have been field-proven worldwide for decades.

In these crane applications, particular requirements such as mechanical strength and safety have led to the use of high-grade mechanically resistant rubber, free of any toxic or hazardous substance.

Prysmian Group has developed extensive know-how over many years about the special operational conditions of cranes and material handling equipment. The decisive factor was close cooperation with many significant terminal operators and crane and reel manufacturers.

The experience we gain every day contributes to the design of our crane cables. The high operational reliability and service life of Prysmian's flexible reeling, festoon, basket and chain cables for cranes and material handling is based on this experience.

## LINKING PORT OPERATION TO SUSTAINABILITY

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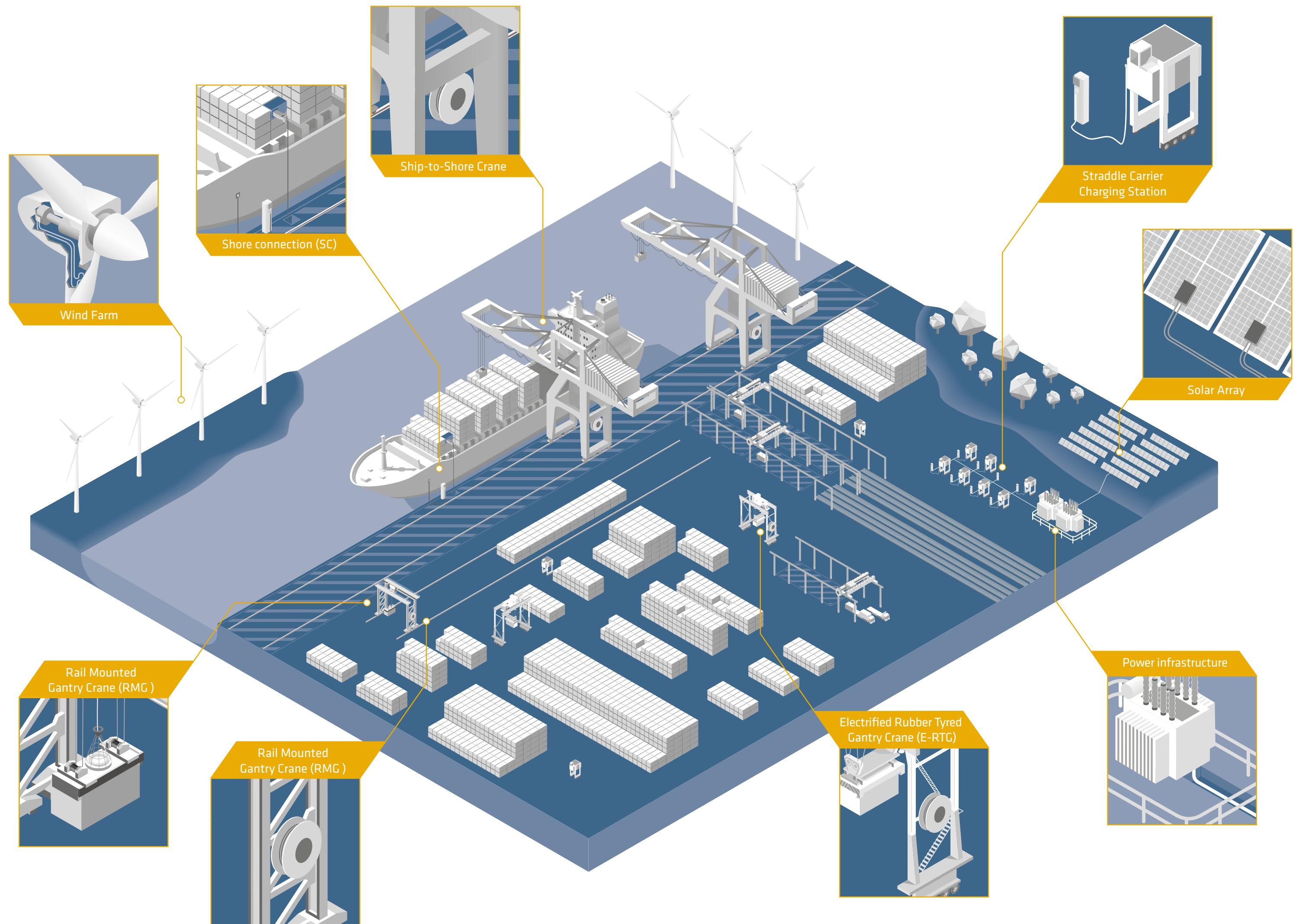
## GREEN PORTFOLIO

Linking Port Operation to Sustainability



 PRYSMIAN  
 Draka

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 Draka



- **Shore Connection**

Prysmian's PROTOLON(SC) cables, suitable for all shore-connection technologies, keep the vessel energized from the electrical grid while berthing, thus saving fuel and reducing the environmental impact.

- **MV and LV reeling cables for E-RTG**

Prysmian supports and enables the replacement of diesel engine with electrical power to operate RTG cranes, as an important element in improving operational and environmental performance ( $\text{CO}_2$  and  $\text{NO}_x$  emissions, noise pollution, fuel costs, etc.).

- **Green-labeled crane cables**

Complete portfolio of reeling, spreader and festoon cables free of any hazardous substances, such as lead for example.

- **EV charging station**

Driven by the electrical automotive industry, Prysmian Group has developed a full-range of cables for charging stations, custom-harnessed and equipped with Type 1 and Type 2 connectors.

- **Renewable energy generation**

Prysmian offers a full product range for the renewable energy generation, from wind cables like TECWIND and WINDFLEX, to photovoltaic cables like TECSUN.

- **Eco-friendly power distribution and transmission**

Prysmian Group is the only cable manufacturer offering fully-recyclable and low-carbon emission MV and HV cables, thanks to its proprietary technology P-LASER.

## Prysmian Group's Roadmap for sustainable Port Operation

Prysmian Group embraces the guiding values of the Green Port Initiative and is actively committed to promote sustainability and reduce the environmental impact of its products. The company supports and enables sustainable Port Operation through the following design principles:

### *Commitment*

#### **Sustainable product development**

Ensuring the grid connection of the ship at berth through our range of Shore-Connection cabling solutions.

#### **Eco-friendly materials and compounds**

Our MV reeling cables PROTOLON(SMK) are now insulated with an eco-friendly compound, free of any lead content.

#### **Efficient production process**

$\text{CO}_2$  emissions (-4.9%), water consumption (-8%), waste disposal (-6%), ozone-depleting substances (-6%), were in 2016 all reduced compared to previous year (Source: Prysmian Group Sustainability Report 2016)

#### **Product lifecycle**

LV and MV reeling cables, such as CORDAFLEX(SMK) and PROTOLON(SMK), last longer in operation. As a consequence also the total cost of ownership is lower.

#### **Easy Disposal**

The only fully-recyclable MV and HV cables on the market are available under the brand P-Laser.