DESCRIPTION

The Harbour dock 7 transformer station plays a crucial role in the local energy infrastructure by efficiently distributing medium-voltage power to various consumers and installations in the port area. Within this project, Atkore was responsible for supplying all cable management systems required inside the medium-voltage cabin. This included the design, manufacturing, and preparation of components that support cables and other electrical installations.

Transformation station

Location: Port of Antwerp, Belgium
Contractor: BESIX Unitec

Atkore's work required close collaboration with BESIX and other stakeholders to ensure that all parts were correctly integrated into the cabin and that installation proceeded flawlessly within the tight project schedule.

DETAILS

■ SECTOR:

Energy

■ PRODUCTS:

Prefabricated Frame
HDKS60.400
VFUL60.100
P1000TTTVH
ZMKBSCL60.200.100

■ DATE: 2025

CHALLENGES

One of the biggest challenges was ensuring the correct insulation of all cables and components in the medium-voltage cabin. Working with medium voltage generates electrical currents and magnetic fields in all conductive materials surrounding the cables. These phenomena can lead to overheating or malfunctions if the insulation is not carried out correctly. The project therefore required a solution that was both technically accurate and practically feasible within the limited installation hours on site.

SOLUTION

In close collaboration with the customer, we developed a prefabricated, custom-designed insulation system. The system was split into **prefabricated components** to speed up and simplify installation on site. Each component is custom-designed so that the customer can be sure that installation can be carried out quickly without compromising on insulation quality requirements. By developing and pre-producing this system, we were able to guarantee maximum quality control while significantly reducing installation time on site.