

Blyth Converter Station, Blyth

# Temporary works for one of the UK's latest converter stations

## Key Benefits:

Custom shoring solution

On-site training facilitated  
erection of systems

## The project at a glance

The construction of the longest subsea interconnector in the world is underway. Blyth in the UK and Kvilldal in Norway are the two chosen locations for the substations. The project, known as the North Sea Link, will enable renewable energy to be exchanged between the two countries, helping to support climate change targets.



**PERI**<sup>®</sup>

**Customer:** Approved Power Services (APS)

**Main Contractor:** ABB

**Developer:** National Grid

**Project type:** Infrastructure, Power Station

**Products and Services:** TRIO panel form-work, DOMINO panel formwork, GT 24 girders, PROKIT, MRK frames, MULTIPROP shoring, PERI UP



#### What did the client need?

The converter station required a number of structures to support on-site activity. As the structures vary in shape and size, a range of formwork designs were required for single use. One of these was the roof slab which had to be supported by secure temporary works, 11 metres above ground level.

#### What was the challenge?

The majority of structures were constructed in tandem, which meant that material had to be readily available to keep the project moving. The transformer buildings are a good example of this, as all three buildings were formed in tandem on site.

#### How did we help?

For the heavy-load roof slabs in the transformer building, we provided a double-height MULTIPROP support system, comprising a plywood, GT 24 girder and aluminium beam arrangement. For further support, this was reinforced with MRK frames, which also served as platform beams for access and erection of the secondary girders.

With the MULTIPROP design, we could account for pits and openings in the concrete foundation and position these props to suit ground conditions.

For secure edge protection at this height, PROKIT was supplied to the PERImeter to ensure safe working conditions. Quick and easy access to the roof slab was provided by our PERI UP stair towers which were securely tied in.

For the pits and cable trenches, we supplied a combination of DOMINO and TRIO to meet the formwork demand for these structures. DOMINO's relatively low panel height made it the ideal formwork system for some of the smaller sized pits. What was beneficial is that the panels could also be lifted by hand around the site, enabling the crane to be used for other tasks.

The main contractor also requested the support of our Field Services team through on-site training. Our site demonstrator showed operatives how to erect the systems correctly as per the technical drawings, saving time in the long run.

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