



BLACK ROCK SANDS BEACH LANDING

Location: Porthmadog, Wales
Sector: Marine

08700 767676

www.sunbeltrentals.co.uk/case-studies



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INTRODUCTION

National Grid commissioned the transportation of an electricity transformer by sea. The transformer, which weighed 128.5 tonnes, was delivered onto Black Rock Sands Beach near Porthmadog, Wales, via an 80m (262ft) barge otherwise known as a Terra Marique vessel.

The transformer was delivered on behalf of National Grid for onward road transportation a few days later to Trawsfynydd Substation.

Replacing an old transformer, the new model regulates the voltage of electricity between circuits and will ensure power continues to be delivered reliably to the local area. Black Rock Sands Beach was used as the delivery point to avoid disruption at Porthmadog harbour.

PRODUCTS (INC QUANTITY)

400 3m x 2.4m LionTrak panels and 120m Heras fence panels

DURATION

Trakway installation carried out over two days

THE CHALLENGE:

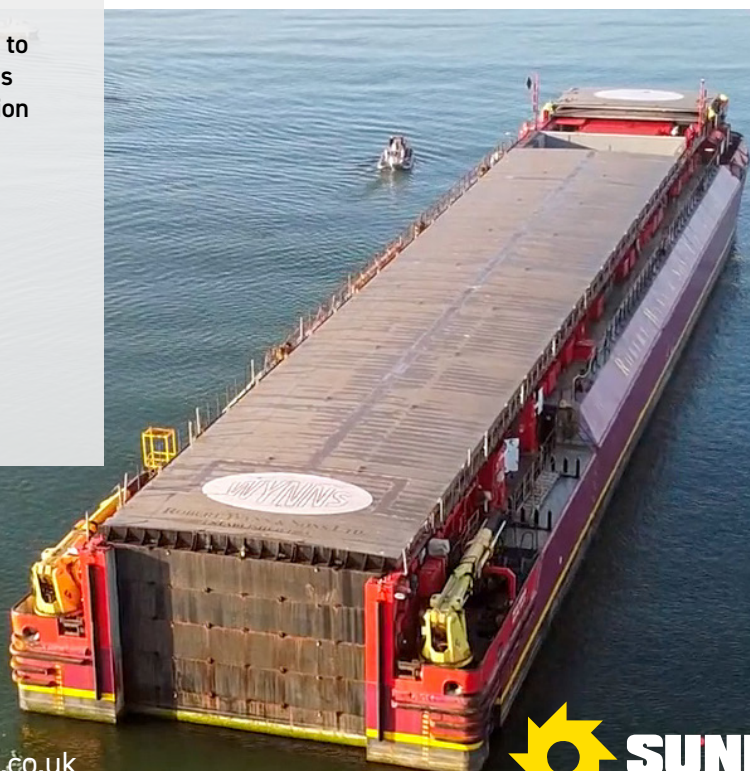
Sunbelt Rentals was given the task of supplying Trakway access to enable the safe discharge of the transformer from the vessel to the beach.

The transformer was loaded onto a multi-axle trailer with a gross weight of 220 tonnes. It was vital that Trakway was used for this project to enable safe transportation of the transformer and to ensure that the equipment and transporting vehicles did not sink into the sandy terrain.

▲ "Just wanted to pass on thanks to your team for the Black Rock Sands job. The job was a textbook operation with all your employees working safely and promptly.

The crews were all a credit to your company. We look forward to working together in the future." ▲

Sam Smith
Project Manager
Mammoet, UK



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THE SOLUTION

The day before the arrival of the transformer, we installed a 30m x 30m compound to enable safe unloading of all materials to site. At 7am the following morning the Terra Marique approached Black Rock Sands Beach on the high tide to settle on the beach as the tide receded. At this point our crews started installing a 250m long x 6m wide access road. As the tide went out, 200 Trakway panels had to be installed to the stern of the vessel within just four hours. Ramps were then fitted and the load was safely discharged to the end of the access road.

By this time the tide had turned and was closing in to refloat the Terra Marique. All 200 panels then had to be recovered and stockpiled above the high tide water line within three hours, eliminating the need to be counter weighted with 1.2 tonne concrete blocks. This was a time sensitive and highly pressurised project where our crews really were working against the clock to get the Trakway installed and recovered again.

The project involved the installation and de-installation of a total of 400 3m x 2.4m LionTrak panels, 120m Heras fence panels, four installation crews and two articulated lorries. Our heavy duty LionTrak system is now in its fifth generation and it allows incredibly high loads to be carried across poor terrain - in this case sand.



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