CASE STUDY

Temporary Power Provision

Hornsea Two Offshore
Wind Farm for Ørsted

oeg Renewables

Industry
Renewable Energy Production / Offshore Wind Farms

Client
Ørsted

Group company
Manor Renewable Energy

Location
Hornsea Two
Hull, U.K

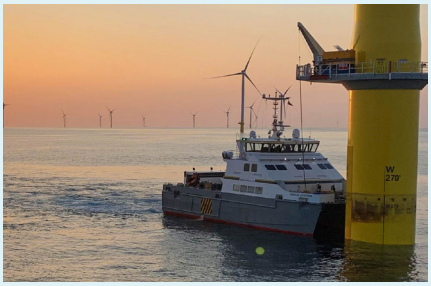
Manor Renewable Energy (MRE) signed a major contract with Ørsted in 2021 for the provision of the full temporary power solution, service technicians and both crew transfer and walk to work vessels, during the construction phase of the Hornsea Two offshore wind farm.

Located 89 km off the UK coast and adjacent to the Hornsea One offshore wind farm, the project consists of 165 SGRE 8.0-167 type turbines, giving a total capacity of 1.4 GW; on completion it has become the largest offshore wind farm in the world.

All 165 wind turbines became fully operational in August 2022 and the project will help power over 1.4 million UK homes.

Challenges

Supplying temporary power solutions, vessels and personnel to the largest offshore wind farm in the world and MRE's largest project work scope to date



Workscope

To provide temporary power, personnel and vessels to support the construction phase of the project.

Contract duration was from May 2021 until September 2022, with 485 days onsite overall and zero harm incidents.

Solution

MRE installed 165 116QS temporary power generators offshore, supported by CTVs and SOVs. MRE supplied owned and chartered CTVs to the project, with two operating at one time; both the Manor Endurance and Manor Venture were on site. MRE chartered three SOVs during the duration of the project, including the Normand Fortress, Acta Orion and Horizon Star.

Approximately 90 personnel worked on the project throughout MRE's work scope; at peak, 58 personnel were on shift including both on and offshore roles. MRE's dedicated project office in Hull supported the operations on Hornsea Two and provided a storage space for the generator sets.

All generators sets were demobilised and delivered back to MRE's home port of Portland, Dorset by September 2022.

Alida Lewis
Project Manager at MRE

"Hornsea Two was MRE's largest temporary power challenge to date and it was a success with the provision of 165 generators during the construction phase.

This project has built on our existing relationship with Ørsted which we look forward to continuing to future projects."