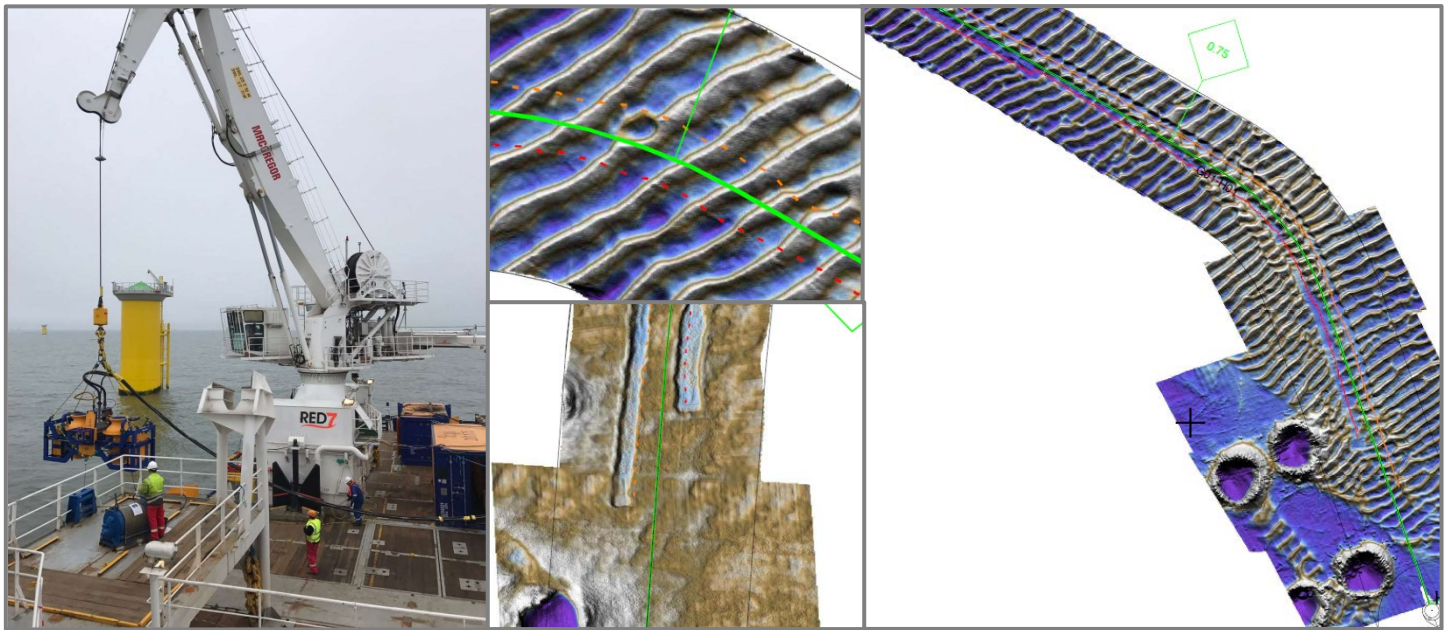


# Mass Flow Excavation (MFE)

## Race Bank Offshore Windfarm

OFFSHORE & INSHORE DIVING SERVICES TO PUBLIC, PRIVATE, FRAMEWORK AND ENERGY CLIENTS WITHIN THE INSHORE/INLAND, MARINE RENEWABLES & OIL & GAS SECTOR



Date:

January 2017

Programme Duration:

28 Days

Project Number:

217002

Client:

Dong Energy

Principal Contractor:

Red7

Diving & Subsea Service Providers

Tel: +44 (0) 1362 637904  
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### Overview:

Red7 was contracted by Dong Energy to conduct Mass Flow Excavation (MFE) operations at Race Bank Offshore Wind Farm site in preparation for cable laying activities.

### Description:

Red7 were required to excavate the cable RPL routes to an extremely high accuracy of less than 300mm excavation depth. The purpose was to 'prove' the cable route free from all debris including previously found ship wreck timbers, potentially hidden within the sand waves. To this end Red7 procured the services of Rotech and their TRS1 MFE system which is specifically designed to provide finite power/depth control while still being the most powerful tool in its class of MFE equipment available.

Red7 chartered the OSV Relume for this operation and having worked for Red7 previously for over 3.5 years on a previous project she was known to meet the correct criteria, and now fitted with an AHC crane.

In conjunction with bathymetric and side scan imaging sonar equipment installed via a side mounted pole, an additional twin head imaging sonar was mounted directly to the TRS1 MFE tool itself which provided real time feedback of the seabed excavations. Images above indicate clearly the fine excavation tolerances achieved through the sand waves with pre and post operations shown.

