

# Risk Assessment Framework for the Offshore Renewables Industry



*Good practice, risk assessment and mitigation solutions for offshore wind, wave and tidal developers, contractors and service suppliers*

## Company Overview

Marex Marine and Risk Consultancy (MAREX) formed in 2000, in response to a requirement for safety case authorship, which was introduced under the Cullen Report, following the Piper Alpha platform disaster. MAREX now comprises of a risk department and a marine department, coordinating highly specialised and experienced marine safety and survey professionals undertaking projects worldwide in the marine energy sector. This includes work for offshore developers, including safety cases, ship vetting, auditing, incident investigation, safety managements systems, bow tie risk assessment, practical risk assessment workshops for managements and crews as well as undertaking technical authorships and comprehensive marine consultancy.

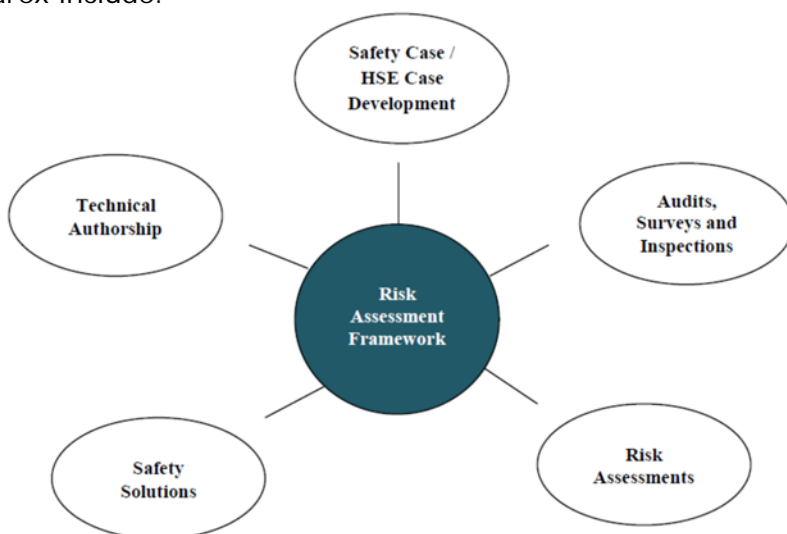
## Challenges

Many health and safety issues arise during the construction, installation, operation and decommissioning of offshore renewables projects. Examples of related services, include:

- Vessel suitability surveys to ensure they are 'fit for purpose' for operations and maritime conditions, including OVIDs and CMIDs
- Emergency Response Reviews to ensure adequate provision for the offshore renewables industry
- Risk Assessment relating to:
  - The installation of offshore turbines
  - The installation and connection of subsea cables
  - Operational and maintenance activities offshore
  - Vessel transportation and transfer of personnel and equipment
- Fire prevention modelling
- Marine operations and emergency response manuals
- HAZOPS and HAZIDS

## Risk Assessment Solutions

Typical examples of risk assessment related services provided by Marex include:



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