

# Seabed/structure interaction (fluid-structure interaction)

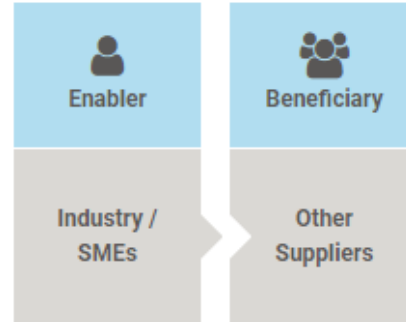
Type of Entry: Innovation Area

<https://offshorewindinnovationhub.com/category/substructures/>

Substructures > Design > Design standards

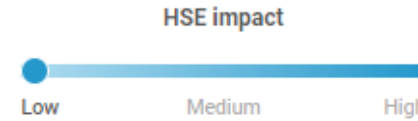
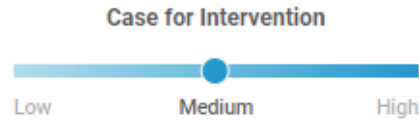
## Description

Design more efficient substructures to minimise the scour risk. Innovate new, cheaper scour protection methods. Understand scour protection requirements for non-standard shapes (e.g. jackets). The present method of dumping large quantities of rock increases the difficulty in both decommissioning and redevelopment of sites.



## Strategic Outcome

- Enabling disruptive innovation
- Commercialising >15MW turbine platforms
- Maximising operational performance of existing wind farms



Notes: Scour protection is a costly aspect of development. Innovations in scour protection type and therefore cost will reduce LCOE.

Notes: Encouraging a collaborative approach (UK-based JIP with joint industry and academic funding etc.) could have a good impact

## Technology Readiness Level



[Read more about TRLs](#)

## Forecast start and finish

