

Novel Offshore Fish Pen Design: Phase 1 (Conceptual Development)

Summary

With fish farming moving from onshore to offshore, a novel fish pen design is needed. The scoping study “Review of Fish Pen Designs and Mooring Systems” by C. M. Wang et al. (2020) provided an overview of current challenges and future design opportunities for offshore fish pens. Based on that, two new design schemes called SeaFisher and SeaDipper evolved. Submitted as a patent application, they reduce the wave load by either elevating or submerging the main parts of the structure.

Linked with the other BECRC programs, this project proposal will develop the SeaDipper and SeaFisher conceptually further to create safer, more efficient and affordable offshore fish pen structures.

Two major industry partners (Tassal Group and Huon Aquaculture) with broad operational expertise will participate and co-select the most promising concepts of the SeaFisher and SeaDipper during this first phase before the concepts will be improved and tested in detail, prototyped, and commercialised in the subsequent two phases.

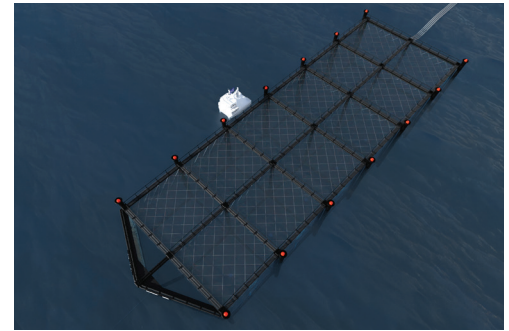


Image courtesy of AEX Group

Project ID

1.21.002

Research Program

RP1 Offshore Engineering and Technology (OET)

Project Leader

Joerg Baumeister, Griffith University

Duration

24 months

Participants

- 6 Griffith University
- 6 Auckland University of Technology
- 6 Cawthron Institute
- 6 DNV
- 6 Huon Aquaculture
- 6 SINTEF Ocean AS
- 6 Tassal Group Limited
- 6 Technology Centre for Offshore and Marine, Singapore Ltd.
- 6 The University of Queensland
- 6 Universidad Austral de Chile
- 6 University of Tasmania