

Risks & Opportunities for the Blue Economy

Project ID

4.20.006

Research Program

RP4 Environment and Ecosystems (EE) Program

Project Leader

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Summary

This project will deliver an integrative characterisation of risk across all parts of the CRC – engineering and technology, production, energy, sustainability and policy. The resulting integrated registry will identify the multidimensional envelopes of risk relevant to the Blue Economy activities in the short to medium term. Opportunities (research gaps, industry needs etc) identified during the analysis will also be catalogued.

Cataloguing hazards and characterising risks is the most challenging step of any risk identification process. Consequently, this project is foundational to many CRC activities, bringing immediate benefit to any industry partners undertaking trials or deployments within the next decade.

Objectives

1. Review hazard analysis methods in each domain via a high-level literature review.
2. Identify and rank potential hazards to a range of offshore aquaculture and energy production systems, and the hazards those production systems pose to the broader socioecological systems they sit within.
3. Run expert and industry-driven workshops for each domain to elicit risk profiles/envelopes of identified hazards.
4. An integrated hazard analysis and risk registry across the five domains including identifying connections among the areas and flagging knowledge gaps and opportunities.

Duration

18 months

Participants

- Commonwealth Scientific and Industrial Research Organisation (CSIRO)
- Griffith University
- University of Tasmania
- OceanPixel Pte Ltd.
- The University of Queensland
- BMT
- Carnegie Clean Energy Limited
- Cawthron Institute
- DNV GL Australia Pty Limited
- Huon Aquaculture Company Pty Ltd
- Macquarie University
- New Zealand King Salmon
- Pacific Engineering Systems International Pty Limited
- Petuna
- Sabella SA
- SAITEC, SA
- Tasmanian Department of Primary Industries, Parks, Water and Environment
- Tasmanian Oyster Research Council Limited



OUR VISION

To enhance the development of Australia's sustainable blue economy through the delivery of world-class, industry focussed research into integrated seafood and renewable energy production systems.

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