

# Developing a Robust Collar Tie

## Research Program

RP1 Offshore Engineering and Technology

## Project Leader

Michael, Heitzmann, The University of Queensland

## Summary

The mechanism for attaching fish farming nets to floating cages in the current inshore farming environment has been identified as a weak point of the structures in a high energy, offshore farming environment.

This project will focus on the development of a collar tie replacement, in collaboration with The University of Queensland. This process will be undertaken alongside the collection of sensor data as it is expected that these attachment points will be identified as a weak link in existing systems. This project will develop a new, robust methodology, and a marketable product for the CRC.

## Project Methodology

The project will develop an improved collar tie system by re-engineering the connection points and employing a novel injection-overmoulding process utilising self-lubricating polymers to improve the resilience of the system.

## Expected Outcomes

A prototype collar tie will be developed to eliminate issues with chafing and wear. This prototype will be field tested and refined to develop a commercially viable product ready for manufacture.

## Duration

36 months

## Participants

- Tassal Group Limited
- University of Queensland



(Image courtesy of Tassal Group 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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[enquiries@blueeconomycrc.com.au](mailto:enquiries@blueeconomycrc.com.au)

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