Currently, there is a lack of available reliability data in the marine sector. RiaSoR has delivered a vital industry-wide methodology, identified and improved uncertainty of potential failure rates, and provided guidance to improve O&M strategies.

-- Elaine Buck, EMEC Project Coordinator

ESTABLISHING INDUSTRY BEST PRACTICE IN RELIABILITY TESTING FOR WAVE AND TIDAL DEVICES

The Reliability in a Sea of Risk (RiaSoR) Oceanera-net project will establish industry best practice in reliability testing for wave and tidal devices through improved load measurements and verification; standardised design guidelines for marine energy systems, and increased safety in marine energy operations.

The goal is to consistently learn from the physical interactions between the device and its environment, while embedding this understanding and building robustness into marine energy technology designs. Collaborating with European Marine Energy Centre (EMEC) and the Research Institutes of Sweden (RISE), ORE Catapult’s role in this collaborative project involves modelling systems and developing enhanced condition monitoring methodologies to improve the reliability and availability of electrical power conversion.

The impact from RiaSoR on the ocean industry will be to demonstrate innovative reliability analysis. This reliability methodology is ultimately aimed at reducing Health Safety and Environmental (HSE) risks, technological risks, Operations and Maintenance (O&M) costs which will lower the Levelised Cost of Energy (LCoE) for the sector.