

## THIRD PARTY REVIEW

Third Party Review of designs and processes provide confidence to project stakeholders. It is often a prerequisite for insurance, and also provides the credibility to a technology which is necessary to engage the wider industry into support of the onward technology development. A peer review process also provides a valuable flow of experience based knowledge from the reviewers to the project team.

Members of the Quoceant team led the Third Party Verification process for the Pelamis Wave Energy Converter (WEC) project. The value of third party involvement was recognised at an early stage in the Pelamis development programme and numerous iterations of the third party verification process were conducted from 2003 to 2014 with increasing efficiency each time.

The role the third party reviewer is to provide independent, experience based expert commentary, professional opinion, and advice about the intended application, including the project site, the technology and its installation. The overall objective of the Pelamis Third Party Verification programme was to ensure that key technical and project risks were both identified and mitigated going forward. The Pelamis design was assessed against an agreed set of codes and standards. This included review of basis of design documentation, agreement of design loads, procedural assessment, review of any relevant mitigating factors, and subsequent technical assessment of the design and procedures. This was a novel project where there was limited direct previous experience so the review aimed to provide objective opinion that supported current proposals or, more crucially, identified critical areas that may not have been considered during the initial project phases. We cannot stress enough how useful this process was for identifying potential issues and speeding up the onward development programme.



At PWP, the Quoceant team led the word in offshore wave power for many years and we are now seeking to add value and efficiency to the wider industry, drawing on our wealth of specific experience and knowledge of the huge gains possible as well as potential pitfalls of working in the marine industry. Quoceant are keen to be involved in reviews of differing sizes, from small-scale review of specific systems to wide-reaching reviews of full devices. Embarking on such a process can be a daunting prospect for an organisation with limited or stretched resources. It is our experience however, that this investment in the technology and the project saves both time and money and should lay the foundation for technology qualification as required for the certification of future projects.