

## Ocean Power Technology PB150 Powerbuoy Case Study

**Moray First Marine Ltd were pleased to offer a range of marine services to assist in the very successful trials of the Ocean Power Technology PB150 Powerbuoy.**

This started with a site visit to Invergordon before the deployment into the Moray Firth. Using our vessel, MV Solstice, we offered a comfortable, stable platform for professional video and stills cameramen to record the well-executed event of attaching the Powerbuoy to the mooring system and righting of the buoy.

survey space were all utilised. Again this phase was successful and the OPT team were delighted to get good results on the first outing and test.



Stills and video cameramen record the deployment of the Powerbuoy

During the commission stage of the project MV Solstice was used as a safe and steady platform while works were carried out. During this period the vessel's powerful 10kva generator as well as its generous communications and



MV Solstice supporting during maintenance work

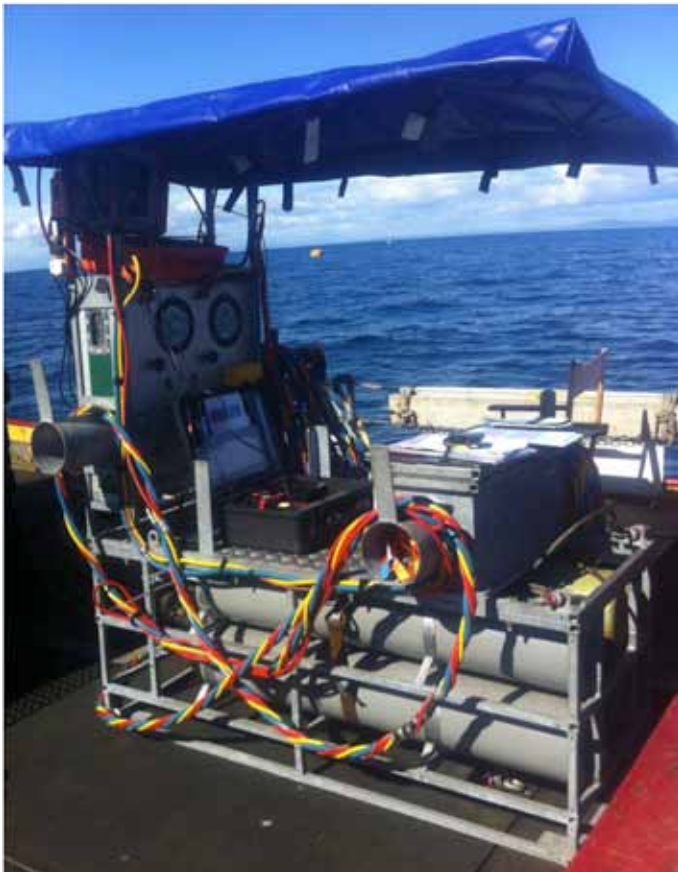
MV Solstice was more than capable of offering safe access to the Powerbuoy for the engineers, their tools and test equipment during the maintenance and modification phase. The stability and manoeuvrability of the vessel made this a very straightforward operation. This stage also involved the use of our Guerra crane to safely transfer heavier items of equipment to the buoy removing any risk of manual handling.

Moray First Marine Ltd also provided boat services for the dive team to carry out the planned inspection of the mooring system. With easy entry and exit to the water, enough space for all the required diving operations equipment, and of course the well-received bacon rolls, tea and coffee etc, MV Solstice and her crew were a great asset to the dive team, so much so that all inspection work was completed in just one day.



Videoray and umbilical just forward of the accommodation, small but effective!

Moray First Marine Ltd were delighted to use their decades of marine and ROV experience to assist Ocean Power Technology in their successful trials of the impressive PB150 Powerbuoy and wish them all the best for ongoing projects.



Dive spread on board MV Solstice following successful survey.

To gather further valuable information during the trials, Moray First Marine Ltd carried out ROV inspections of the Powerbuoy from the surface down to the bottom of the buoy at 37m, using our Videoray Pro 3GTO. These surveys proved vital to the OPT team as they could see what was happening in real time and then take the recorded information back to the office for further analysis.



OPT PB150 Powerbuoy in situ with Videoray Pro 3GTO in foreground.