



## **Kishorn Port** *Hydrostatic Testing* *Case Study*



### **Albatern complete deployment preparations at Kishorn Port**

Albatern, the Roslin, Midlothian wave energy device developer have completed pre-deployment testing at Kishorn Port, which included collaboration with Ferguson Transport for shipping and logistics.

The collaboration included transport to site of the first two second-generation Squid devices, taken by road to Kishorn using standard articulated trailers. This proved the viability of transport to a distant part of the Scottish mainland using standard transport methods and avoiding additional carriage or escort costs.

This was further reinforced with the lift of the two Squid units from the trailers and into the water using the two cranes already on site, which are normally loading fish feed into vessels for distribution to fish farm sites. With no special mobilisation to site, this again helps to keep project costs low - a key requirement in making wave energy devices commercially viable.



*In collaboration with:*



**LOGISTIC SOLUTIONS,  
SUCCESSFUL WITH PARTNERS**

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Albatern appreciated the flexible approach of the Ferguson's staff who were able to accommodate the varied requests for input to tie in with the other work ongoing at the port. This was especially useful when elements of the work were being carried out for the first time and timings were not fully defined.

The use of the tidal drydock at Kishorn Port also proved very beneficial in the extreme weather during the winter months when activities on the ballasting of units from horizontal transport mode to vertical operating mode continued which would not have been possible even close to shore in open water.

This allowed further refinement of techniques prior to the open water deployment of the first WaveNET array in real operating conditions on a fish farm site under development by Marine Harvest (Scotland) off the Isle of Muck on Scotland's west coast.

A full work programme covering weight testing, unit ballasting and recovery, and testing of the mooring linkage methods and operations was carried out, and saw the first coupled WaveNET array - consisting of 2 Squid units joined together - completed during March 2014.

Director at Kishorn Port Ltd and Managing Director of Ferguson Transport & Shipping, Alasdair Ferguson, said: *"As demand for our services at Kishorn in the renewable industry increases, we are delighted to be able to provide our combined industry experience and offer integrated port and dry dock facilities to meet the expectations of Albatern for testing their energy devices."*

*"We are very impressed by the Squid device that Albatern and their team have demonstrated professionally and look forward to seeing their wave energy device deployed and working to generate power in the near future".*



David Findlay, CTO, Albatern, said: *"The work at Kishorn has seen two important firsts for Albatern. The first deployment of the second-generation Squid units, and the first coupled WaveNET array. We greatly appreciated the flexibility of both Ferguson Transport and Kishorn Port during this process. It has provided us with invaluable experience and a strong platform for tackling our open water deployment at the Isle of Muck."*