

# Wello Penguin WEC Case Study

## Shoreside support



In summer 2012, Fendercare Marine provided key support to the successful Wello Penguin Wave Energy Converter (WEC) installation in Orkney, Lyness. A range of services were delivered during installation demonstrating their ability to support pre-commercial and commercial array installation.

### Who

Wello Penguin Wave Energy Converter (WEC)

### Summary

The Wello Penguin WEC is a unique and patented construction to harvest ocean energy. It is based on industry standard components, including a generator typically used by wind turbines, to allow scalable manufacturing by virtually any shipyard using existing manufacturing processes.

The Wello Penguin WEC is connected to a mooring system on the Billia Croo test site. The actual installation of the Wello Penguin WEC took only 36 hours and was conducted by a Multicat vessel assisted by a harbour tug.

### Services Provided

- Shoreside support from Lyness base
- Project management
- Labour support
- Final ballasting and mooring equipment supply

### Benefits Delivered

- Project integration - one supplier
- Delivered on time to budget
- Initial results confirmed efficient rotating movement of the Wello Penguin WEC in smaller waves than first anticipated

