

# SmartBay - Ocean Energy Developer Support

SmartBay is Ireland's national marine test and demonstration facility which is ideally located within Galway Bay. The test site is suitable for developers wishing to undertake low-cost sea trials and validation of devices and components at various technology readiness levels.

The test site is fully licenced allowing developers to focus purely on device development.

The area is clearly delimited by 4 cardinal marks at each corner of the site to indicate navigation restrictions on vessel traffic in the vicinity.

A sub-sea cabled observatory is deployed at the site, and is powered by a hybrid optical/electrical cable. The observatory can provide power to, and receive data from, up to three Ocean Energy devices (1.2kW per device). Several optical and electrical connectivity options are available with a number of permanent sensors and a high definition camera installed for monitoring.

## **Facilities and Supports include**

- Fully licenced test site for ocean energy devices
- Site located 1.5km offshore in water depths ranging from 20m – 25m
- Fully characterised wave climate
- Comprehensive time-series of weather, wave and current data for the site
- Proximity to ports and associated facilities
- Operational team providing end-to-end marine support
- ICT team for data acquisition and transmission support.



## SmartBay

Ocean energy device developers are supported by a specialist team experienced in prototype ocean energy device trials ranging from planning, deployment, data transmission, recovery, certification and proof of concept validation.

The team is composed of marine technicians, scientists, engineers and software developers, supported by marketing and business development professionals with extensive industry knowledge.

Users can also avail of an established, extensive local supply chain to compliment in-house expertise, and to provide a range of supports, including:

- Naval architecture design
- Marine surveying
- Device validation
- Device certification
- Techno-economic assessment
- Vessel provision
- Dive support
- Steel fabrication
- Welding
- Port facilities.



### **SmartBay support team has experience in delivering the following:**

- Assisting in funding application preparation
- Pre-deployment planning
- Mooring configurations
- Device mobilisation
- Deployments
- Ongoing operations and maintenance (O&M)
- Data acquisition and transmission
- Device demobilisation and decommissioning.

# SMARTBAY

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