



Successful deployment of Sercel's automated passive acoustic monitoring system at St. David's Bay, Wales, which enables the user to receive real-time automated notifications on the proximity of marine mammals to the buoy 24 hours a day.

CASE STUDY

CGG ENVIRONMENTAL SCIENCE / SERCEL

CGG Environmental Science and Sercel are collaborating with The Offshore Renewable Energy Catapult to deploy and demonstrate the performance of a newly developed autonomous monitoring solution for the automated, real-time detection of cetaceans. The system is based on Sercel's existing QuietSea™ technology, a solution dedicated to cetacean monitoring during marine seismic surveys. The newly developed automated passive acoustic monitoring (PAM) system is a more compact, static version installed in a highly specialised single buoy.

The purpose of the test is to deploy the system in a tidal location, measure the presence of harbour porpoises (*Phocoena phocoena*) and optimise the performance of the system under these conditions. The system has been successfully installed by the Catapult's engineering team in St. David's Bay off the coast of Pembrokeshire, UK and the collaborators will be collecting and analysing the system detections.

The PAM system uses a novel algorithm to identify the presence of harbour porpoises based on their vocalisations, and satellite technology automatically sends e-mail

notifications of positive detections. This enables users to receive real-time alerts of the presence of marine mammals in proximity to offshore infrastructure 24 hours a day. This information can be used to provide guidance for marine regulators and enable them to meet the monitoring reporting requirements of project licences and halt construction or surveying activities when marine mammals are nearby.

To find out how Sercel's automated PAM system can be deployed for your offshore infrastructure projects, contact sales.nantes@sercel.com for more information.