

RESEARCH INFRASTRUCTURE

Infrastructure Information and Contact

Name	PLOCAN MARINE TEST SITE
Owner	PLOCAN - Oceanic Platform of the Canary Islands
Operator	PLOCAN - Oceanic Platform of the Canary Islands



Status	Public Research
Category	Land-based facilities and in situ testing sites for ocean engineering and ocean observation support
Subcategory	In situ test sites
Type	wave, offshore wind, mooring testing
Country	Spain
Main operating areas	Atlantic Ocean
Main Scientific Disciplines addressed	Meteorology; Biogeochemistry; Bathymetry; Maritime Engineering, Wave Energy; Marine environment; Multi-purpose; Offshore Wind Engineering Mooring engineering ; Offshore wind and turbulence in-situ measurements from wind turbines; Chemistry; Physical oceanography; Oceanography
Address	Carretera de Taliarte, s/n. Telde , Gran Canaria, Islas Canarias, 5635200 España
Infrastructure URL	http://www.plocan.eu
Operator URL	http://www.plocan.eu
Gallery URL	http://plocan.eu/index.php/es/multimedia-videos/galeria-de-i...
Year Built	2014
Year of last refit	2017

Additional Information

Length (m)	7,000
Max. operating depth (m)	600
Service currently offered by the infrastructure	<p>The PLOCAN Marine Test Site is located on the East coast of Gran Canaria Island (Spain, www.plocan.eu). The Canary Islands are located in the Atlantic Ocean, south-west of Spain and Northwest of Africa. The marine test site includes an area of about 23 km² with a wide range of water depth from shoreline to 600 m. This Marine Test Site is available to projects focused on testing and demonstrating of all kinds of marine devices but mainly marine renewable energy converters. The final testing decision would be conditioned to the appropriateness, opportunity and availability of the facilities. The electrical and communication infrastructure is composed of two medium voltage cables (13.2kV) with a capacity of 5MW, each one, within the range of $\pm 1\%$ of 50Hz. The infrastructure will be mostly underwater, comprising hybrid cabling, with copper cables for the transmission of electrical power and fibre optics for data transmission, including a short terrestrial section to connect to the electrical substation on land. The onshore infrastructure will go from the manhole up to the electrical substation (66kV), where the electricity is raised up for its deliver to the national transmission grid. The onshore infrastructure will be composed by an underground medium voltage cable with a capacity of 15MW, by a power transformer station (13.2kV to 66kV) and all electrical protections required. This part will only be available after the Summer of 2017.</p>
Access Conditions	Public access
Location (hometown)	Gran Canaria Island
Latitude	27.99
Longitude	-15.38