

# ORML1957v2: META CGEN Tidal Energy Converter Pre-deployment monitoring plan report

Version	Date	Description	Originated by	Reviewed by	Approved by
1	27/02/2025	Original	Saul Young	CGEN	[NRW]

## Introduction

The Marine Energy Test Area (META) plans to host a deployment of a scale floating tidal energy converter at the META Warrior Way site. This work is covered by Marine Licence ORML1957v2.

In accordance with ORML1957v2 **Condition 3.28** *The Licence Holder must submit a device specific pre-deployment monitoring plan to the Licensing Authority for written approval prior to any deployment operation. The plan should consider;*

- *Requirement for pre-deployment benthic survey to inform micro-siting.*
- *Requirement for archaeological survey.*
- *Requirement for suspended sediment plume monitoring at Dale Roads site and at all sites where seabed levelling and/or clearance is required.*

Further, in accordance with ORML1957v2 **Condition 3.29** *The Licence Holder must submit a monitoring report following completion of any surveys detailed within the pre-deployment monitoring plan (3.28) to the Licensing Authority at least 3 months prior to commencement of activities.*

This report has been drafted to meet Condition 3.28 and 3.29. The report presents and reviews existing data to consider the requirement for additional monitoring


Please note ORML1957v2 monitoring condition 3.32 does not apply to this deployment as the device speed of moving parts are <5m/s and swept area is <19.63m<sup>2</sup>.

## Proposed deployment

Floating tidal energy convertor moored to the seabed using two mooring blocks position at 51° 42.222' N 4° 55.61' W. Please see the relevant device-specific EMP and the Device Installation Operation Method Statement (DIOMS) submitted alongside this monitoring plan for more details on the device parameters, operation and test programme.

## Monitoring Plan

Considerations as per licence condition 3.28	Monitoring Plan	Justification
<b>Requirement for pre-deployment benthic survey to inform micro-siting.</b>	No monitoring required	In 2023 Ocean Ecology Limited (OEL) designed and conducted detailed benthic habitat mapping surveys at the META Warrior site using drop-down camera (DDC) and multibeam echosounder (MBES) methods, with the aim to identify and understand the habitat present, including those which are considered sensitive. The habitat map produced from these surveys for Warrior Way is presented below and includes the proposed position of the CGEN tidal energy converter mooring blocks which have a combined seabed footprint of 8m <sup>2</sup> . The proposed position is micro-sited on coarse sediment (Eunis Classification A5.1) away from sensitive habitats (e.g. Annex 1 reef).

		 <p>0 0.1 0.2 0.4 Kilometers</p> <p><b>Legend</b></p> <ul style="list-style-type: none"> <li>• Mooring position</li> <li>◻ Warrior_Way_Site_Area</li> <li><b>Eunis Habitat Class</b></li> <li>◻ A3.1</li> <li>◻ A4.1</li> <li>◻ A5.1</li> <li>◻ A5.1/A3.2</li> <li>◻ A5.1/A4.2</li> <li>◻ &lt;all other values&gt;</li> </ul>
<p><b>Requirement for archaeological survey.</b></p>	<p>Monitoring not required.</p>	<p>13.7.2.1 A review of marine archaeological data has returned no designated heritage assets within Warrior Way (site 6). (Chapter 13 Marine Archaeology, RPS, 2019).</p> <p>If in the unlikely event an archaeological discovery is made, we will follow the approved META PEMP Annex 8: Protocol for Archaeological Discoveries.</p>

<p><b>Requirement for suspended sediment plume monitoring at Dale Roads site and at all sites where seabed levelling and/or clearance is required.</b></p>	<p>Monitoring not required</p>	<p>No seabed levelling or clearance will take place as part of the proposed testing activities at Warrior Way therefore suspended sediment plume monitoring is not considered to be required.</p>
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