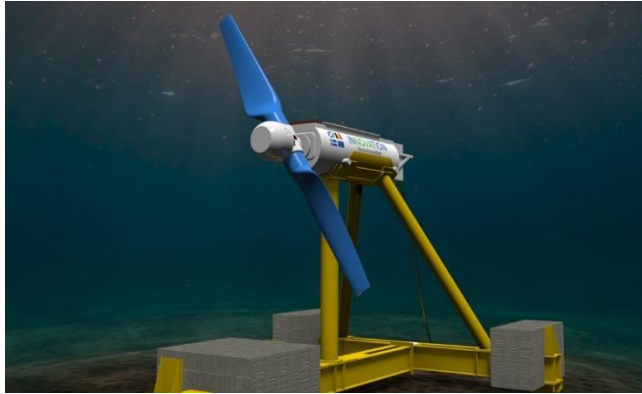


# Nova Innovation Tidal Solutions Company



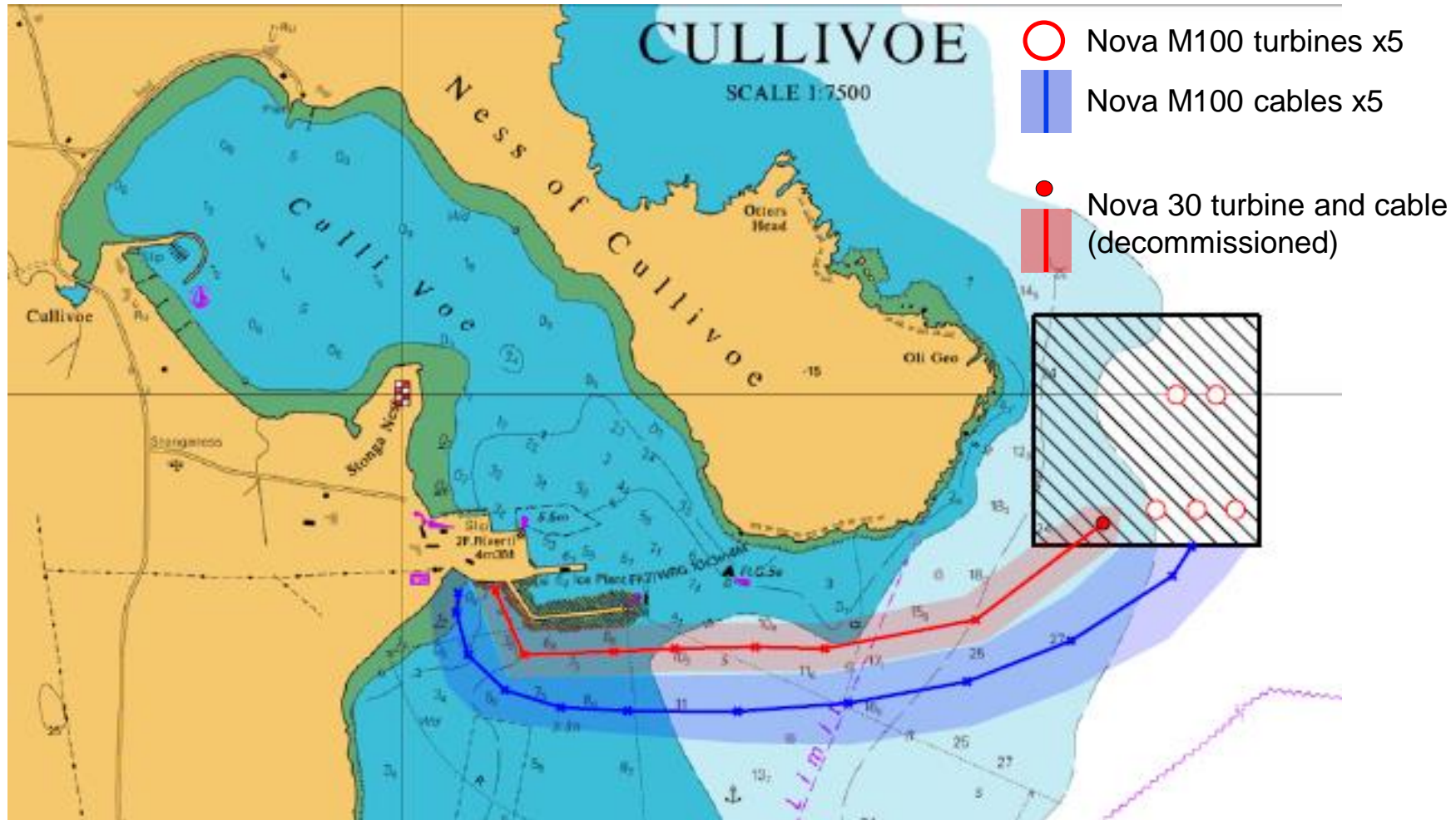
Shetland Tidal Array decommissioning consultation  
10th January 2017

# Decommissioning of the Shetland Tidal Array



- The Shetland Tidal Array is an array of five 100 kW “Nova M100” turbines located in the Bluemull Sound, Shetland
  - Rotor diameter 10m, hub height 9m
  - Total weight 100 tonnes in air
  - Each turbine connected to Cullivoe Pier by a dedicated 1km subsea power cable
  - Array location: 60°41'56"N, 000°59'03"W
- The first two turbines were installed in 2016, a further three turbines will be installed in 2017-18
- An earlier 30 kW “Nova 30” device located on the same site was successfully decommissioned in December 2016
- This document outlines the Array Decommissioning Plan for consultation with stakeholders
- Feedback is welcomed via the email address provided at the end of this document

# Site bathymetry, turbine and cable location



# Decommissioning operations

- Decommissioning procedure:
  1. The nacelle is lifted from the turbine base by a multicat vessel and removed to shore.
  2. Lifting chains are attached to the base, which is lifted by a Multicat and removed to shore.
  3. The cable is recovered by the vessel, spooled onto a drum and taken to shore.
  4. Once onshore the device is recycled or disposed of in accordance with relevant recycling and waste disposal procedures.
  5. The offshore site is surveyed to ensure all traces are removed
- All offshore works are routine operations with risks managed according to standard procedures
- All offshore components will be lifted from the seabed with negligible environmental impact
- Decommissioning is scheduled to take place over a 2 week period in 2037

# Example Multicat decommissioning vessel lifting turbine nacelle



# Decommissioning consultation

- Please send any comments or queries on this decommissioning consultation to Nova Innovation by 17<sup>th</sup> February 2016 using the following address:

[notifications@novainnovation.com](mailto:notifications@novainnovation.com)

- Many thanks for your attention