

TIDAL TEST SITE

EMEC



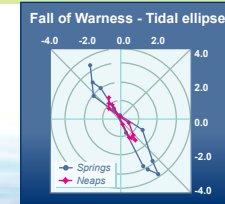
MET STATION

A purpose built weather station is located close to each test site. It is calibrated to national standards and provides developers with air temperature, windspeed and direction, humidity, rainfall and barometric



EMEC AT A GLANCE

- Full tidal regime with test berths in 12 m- 45 m water
- All berths UK grid-connected
- Realtime technology and environmental monitoring
- Nearby access to sheltered water and harbours
- Full office and data centre support
- Extensive local research and engineering support



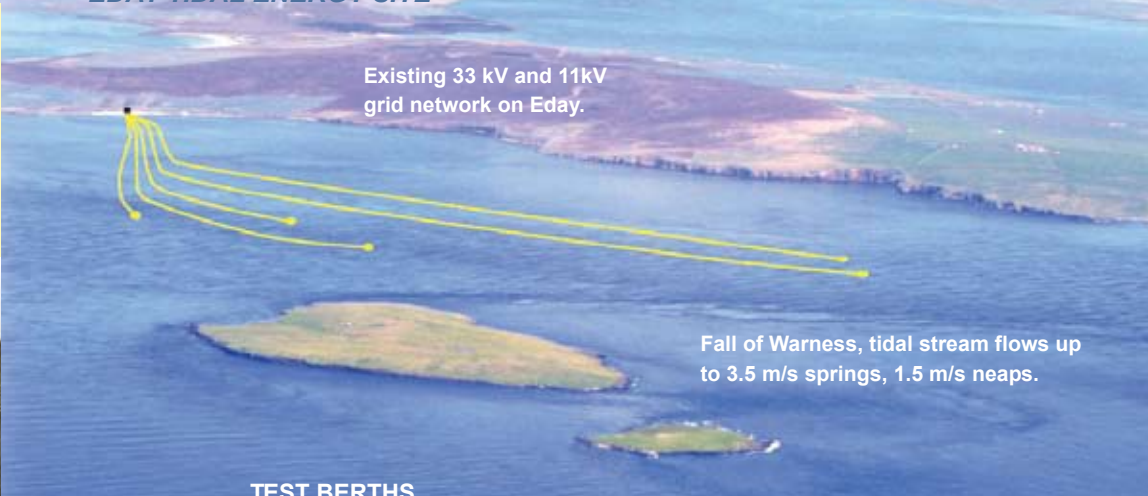
EMEC OFFICES/DATA CENTRE

In Stromness EMEC has a suite of offices and data acquisition facilities, including areas dedicated to specific developers. Fibre-optic and data networks provide developers with direct and secure access to their

CALDALE SUBSTATION, EDAY
Housing main switchgear, back-up generator and communications room, controls for supply from each tidal device and connection to the National Grid.
A laydown area provides options for



EDAY TIDAL ENERGY SITE



Existing 33 kV and 11kV grid network on Eday.

Fall of Warness, tidal stream flows up to 3.5 m/s springs, 1.5 m/s neaps.

TEST BERTHS

Five 11 kV subsea cables extend to the centre of the tidal stream. Developers will be responsible for installing their devices, connecting to the test designated cable and removing their devices when testing is complete.

TECHNICAL SPECIFICATIONS

- Coastal 11kV control and switching station
- Metered power output from test devices
- Comprehensive SCADA System (system control and data acquisition)
- Data transfer by fibre optic cables to allow remote access
- Full confidentiality of data

DIVING ACTIVITY

Divers can be expected to be working in the area



VESSEL ACTIVITY

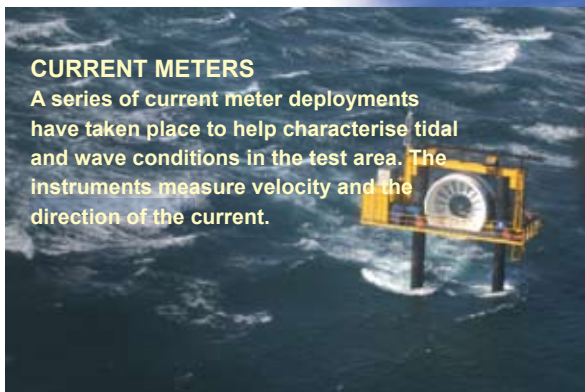
A range of different vessels (small and large) can be expected to be working in and around the test area.



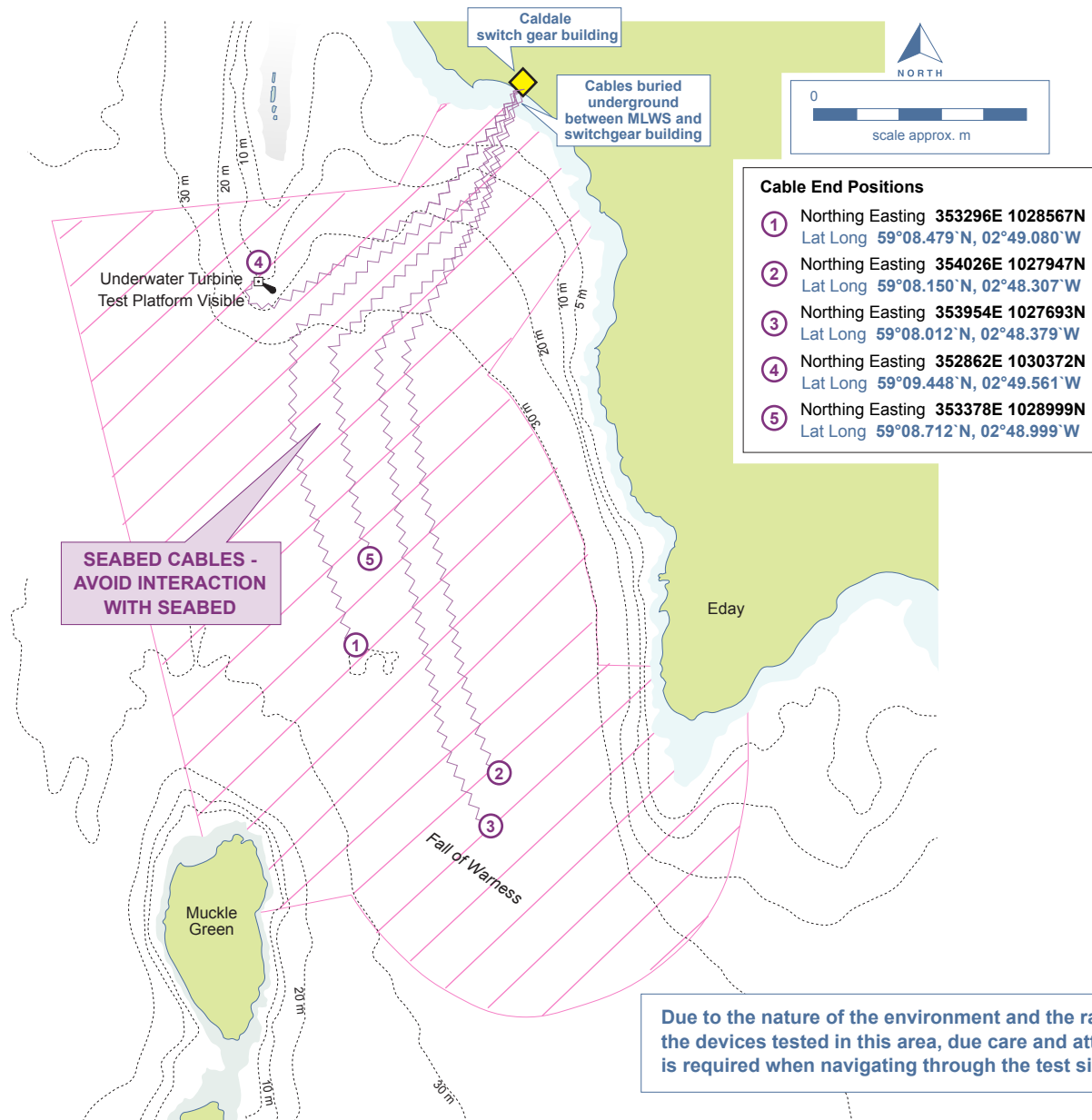
www.emec.org.uk

CURRENT METERS

A series of current meter deployments have taken place to help characterise tidal and wave conditions in the test area. The instruments measure velocity and the direction of the current.



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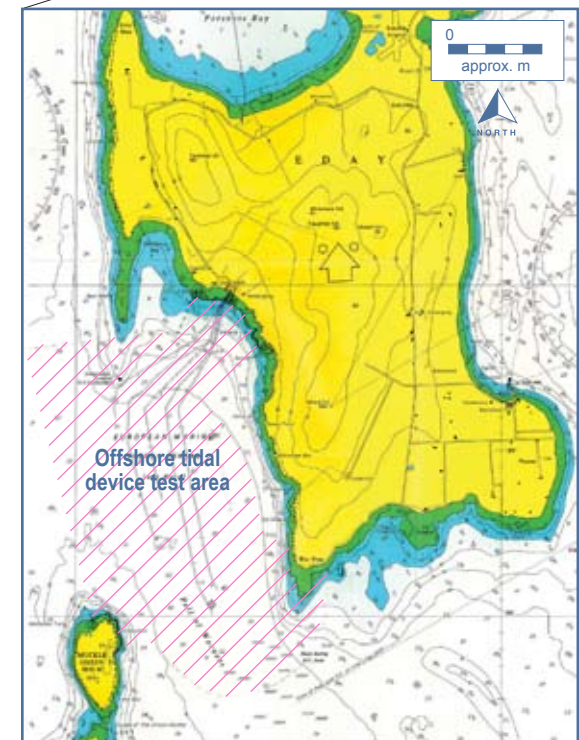
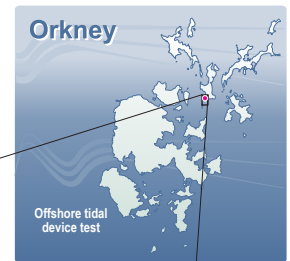


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Awareness chart note:

1. The shaded area highlights the test site for marine tidal energy converters. The position and depth of these vary.
2. Significant work will be displayed by the standard notice to mariner routes. (UKHO and www.orkneyharbours.com)
3. Devices will be marked in accordance with NLB and MCA recommendations.
4. Positions and number of buoys within the shaded area may vary.



Not to be used for navigation