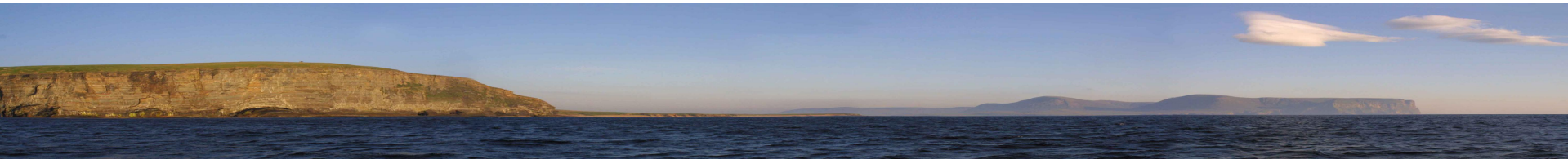


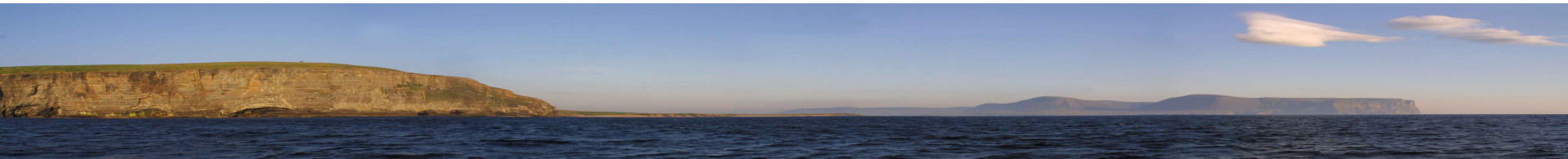
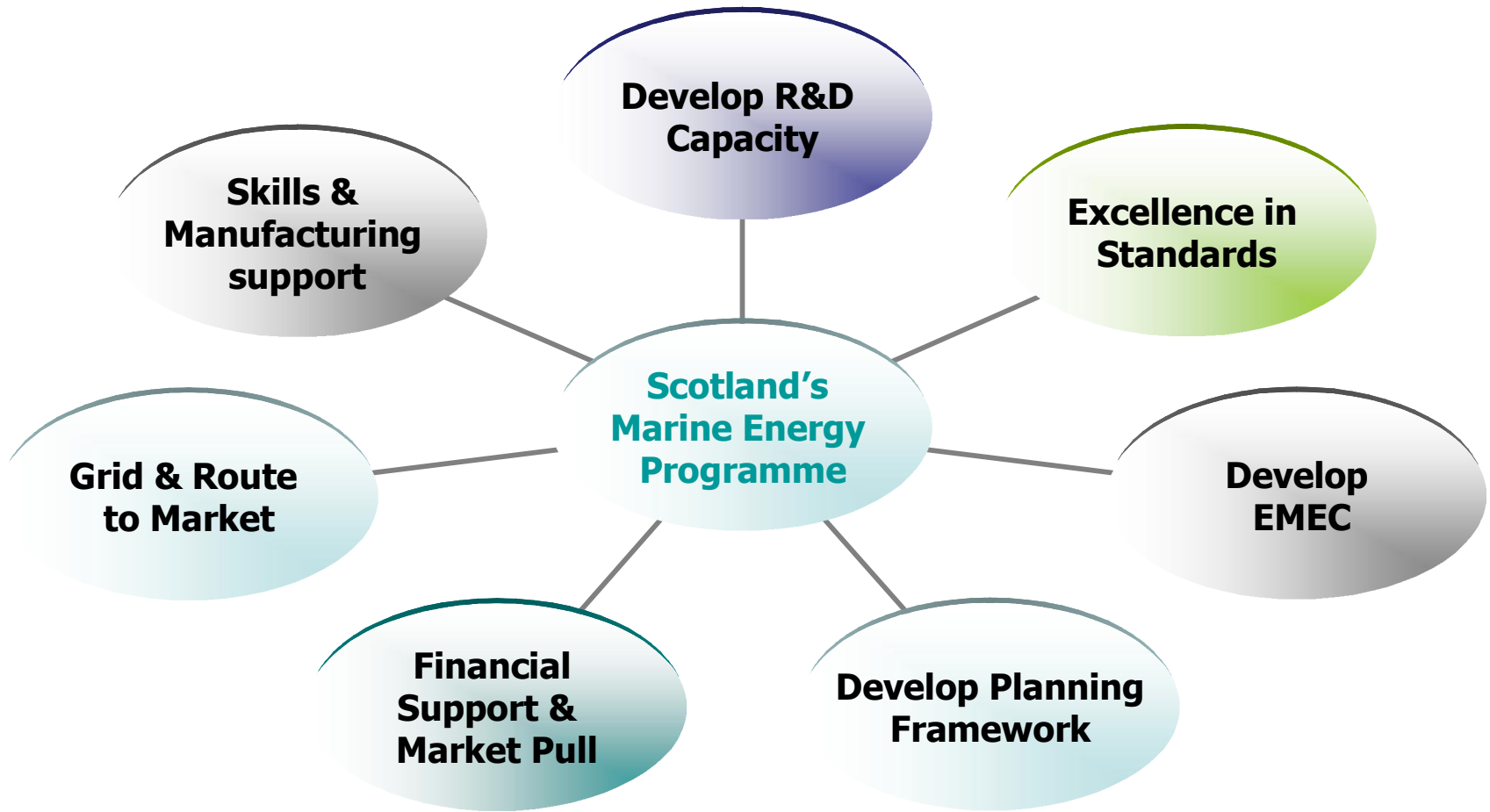
# **FREDS Marine Energy Workshop**

May 2005

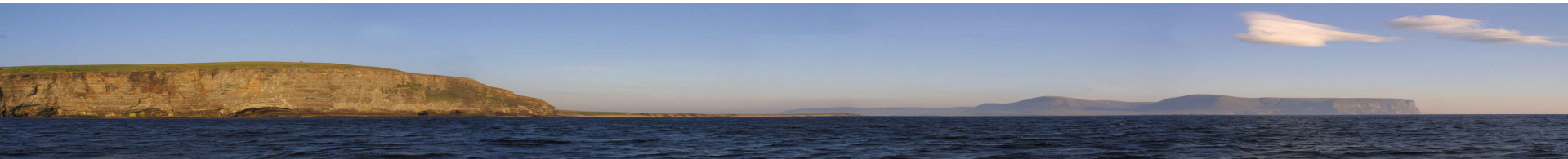
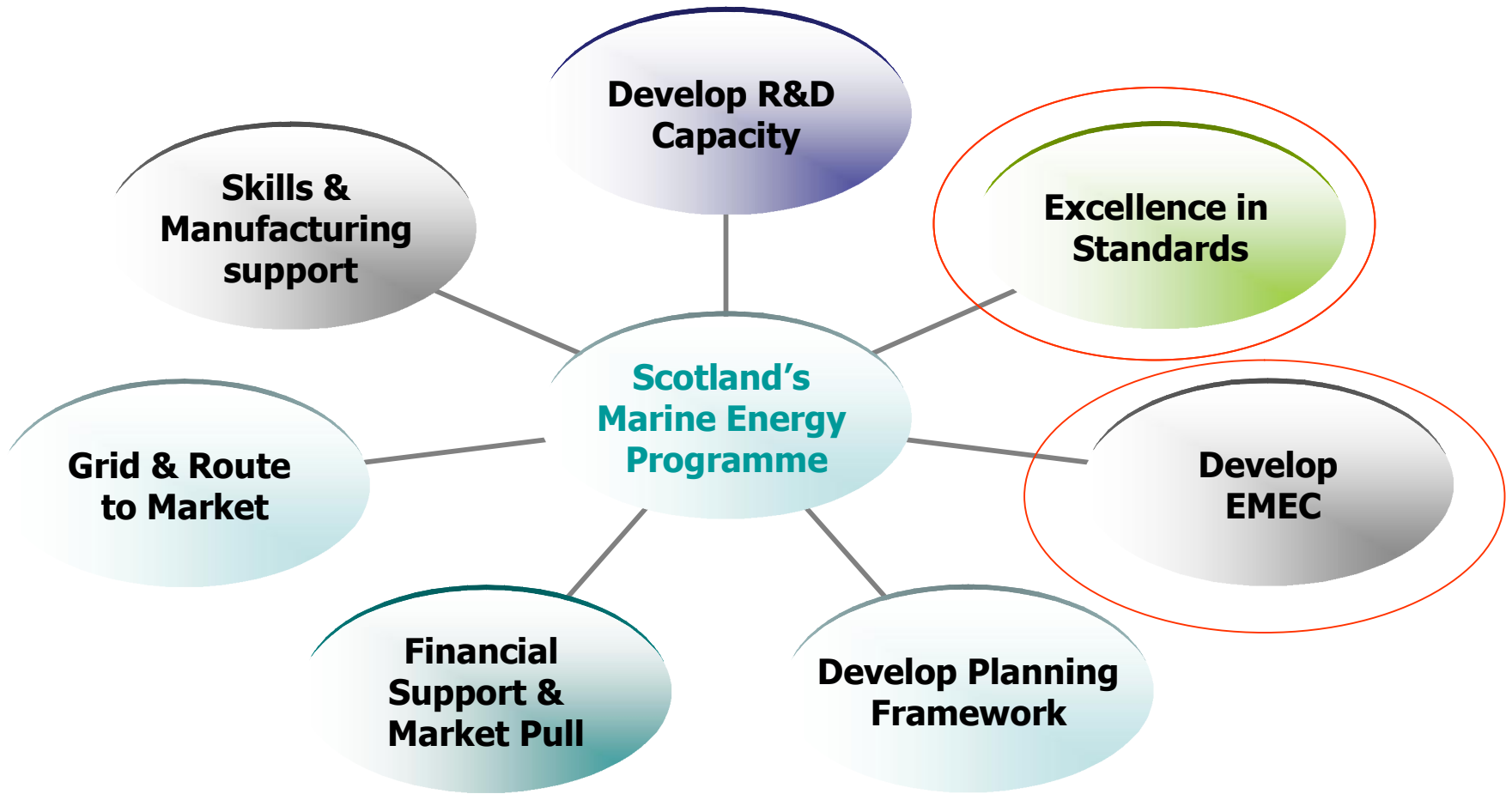
Andrew Mill - Managing Director  
European Marine Energy Centre Ltd



# SEVEN STEPS FOR MARINE ENERGY

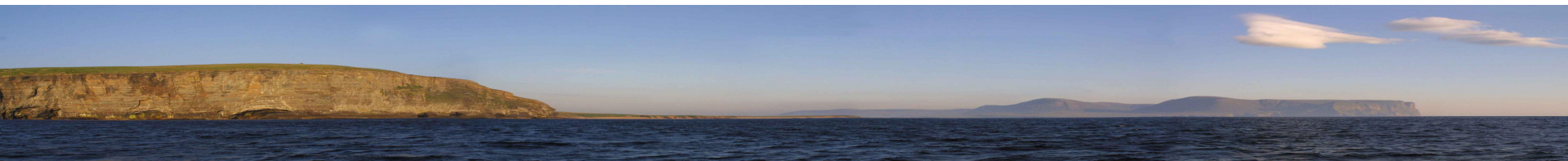


# SEVEN STEPS FOR MARINE ENERGY



## Excellence in Standards - Actions

- 1. EMEC must be supported in its work to establish Scotland as the internationally recognised centre for marine energy technical, operating and safety standards.**
- 2. EMEC, in partnership with Carbon Trust, SUPERGEN and Scottish Executive, should coordinate a technical workshop between key standards agencies and lead on implementation / delivery of the key conclusions arising from this workshop.**

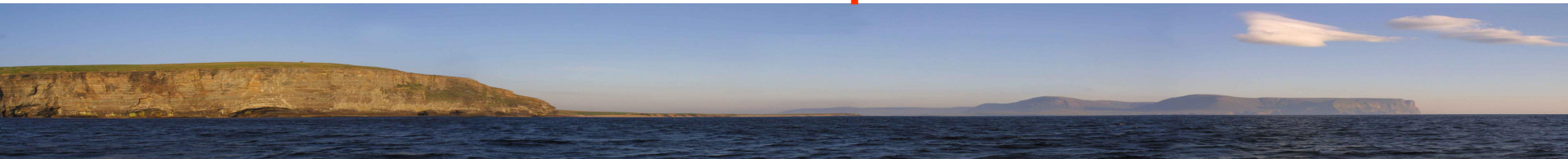


## Excellence in Standards - Actions

- 1. EMEC must be supported in its work to establish Scotland as the internationally recognised centre for marine energy technical, operating and safety standards.**

### **Progress Report**

- Workshop following EMEC opening**
- Missions overseas**
- Number of overseas enquiries**

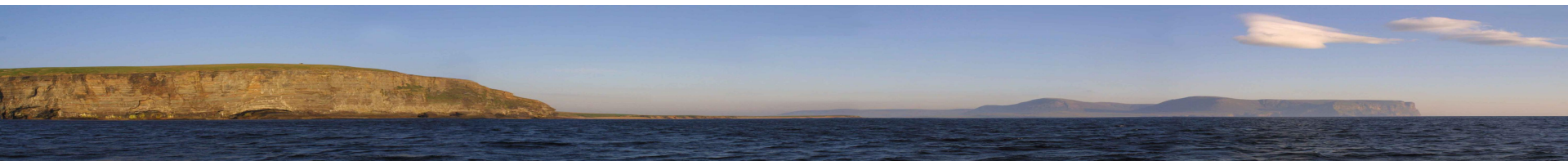


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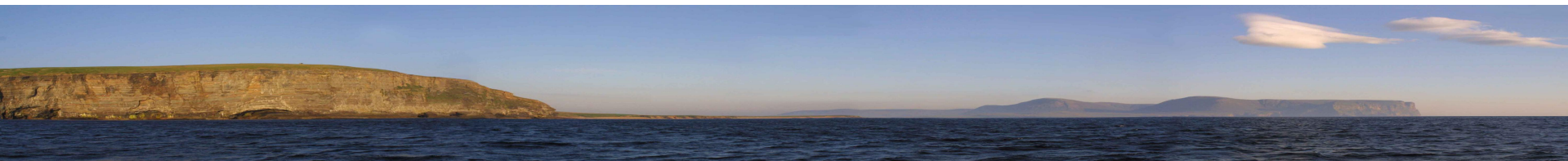
### **Progress Report**

- **EMEC workshop**
- **European Wave & Tidal Conference 2005**



## Developing EMEC - Actions

- 1. The Scottish Executive should urgently review the need for devices under test at EMEC to obtain consent under section 36 of the Electricity Act 1989.**
- 2. EMEC's facilities should be extended to accommodate tidal device testing.**
- 3. EMEC and Scottish Development International should actively promote overseas marketing of its services and expertise.**

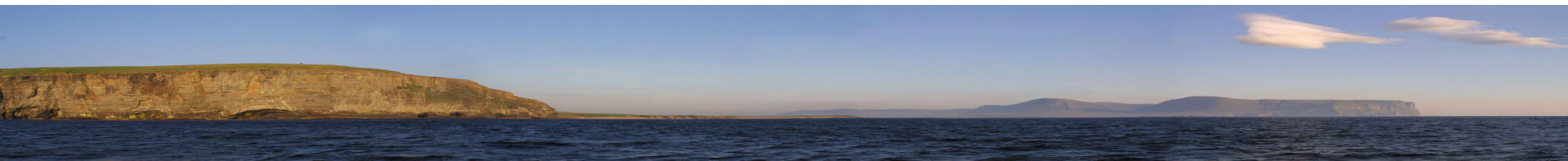


## Developing EMEC - Actions

- 1. The Scottish Executive should urgently review the need for devices under test at EMEC to obtain consent under section 36 of the Electricity Act 1989**

**Progress Report**

**Solution found and to be applied for all EMEC sites**

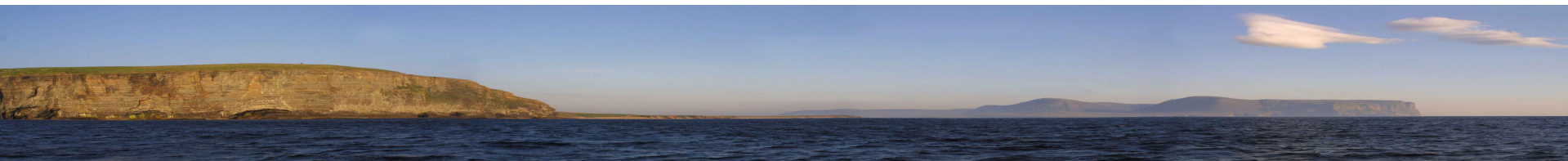


## Developing EMEC - Actions

- 2. EMEC's facilities should be extended to accommodate tidal device testing.**

### **Progress Report**

- Funding secured**
- Cable ordered**
- Project implementation underway**

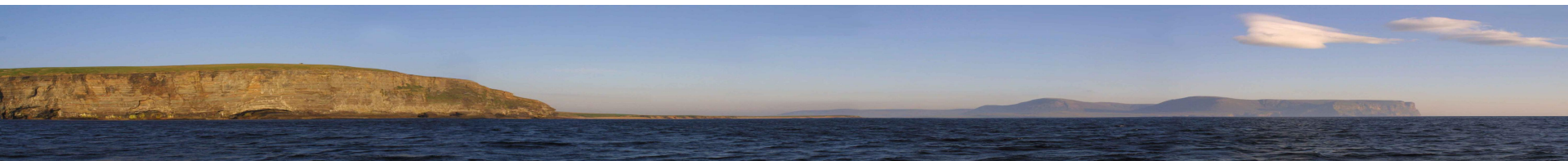


## Developing EMEC - Actions

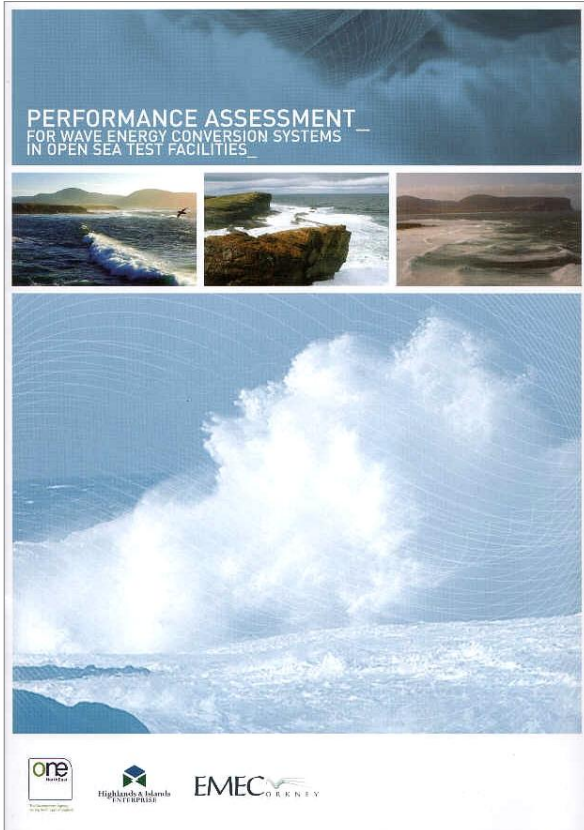
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### **Progress Report**

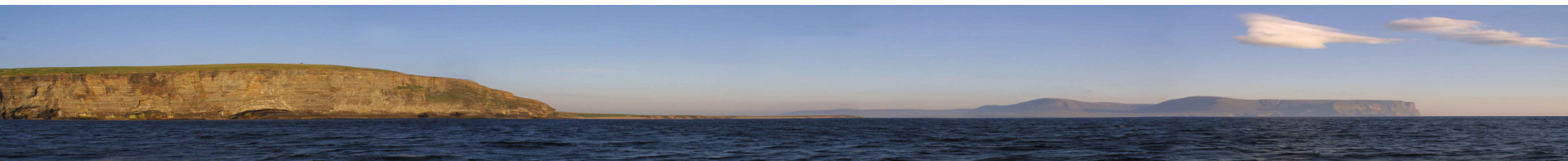
- Development of market knowledge**
- Inward missions**



## Open Sea Test Standard



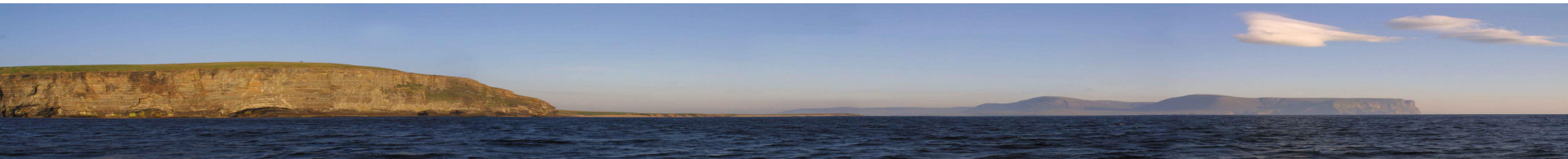
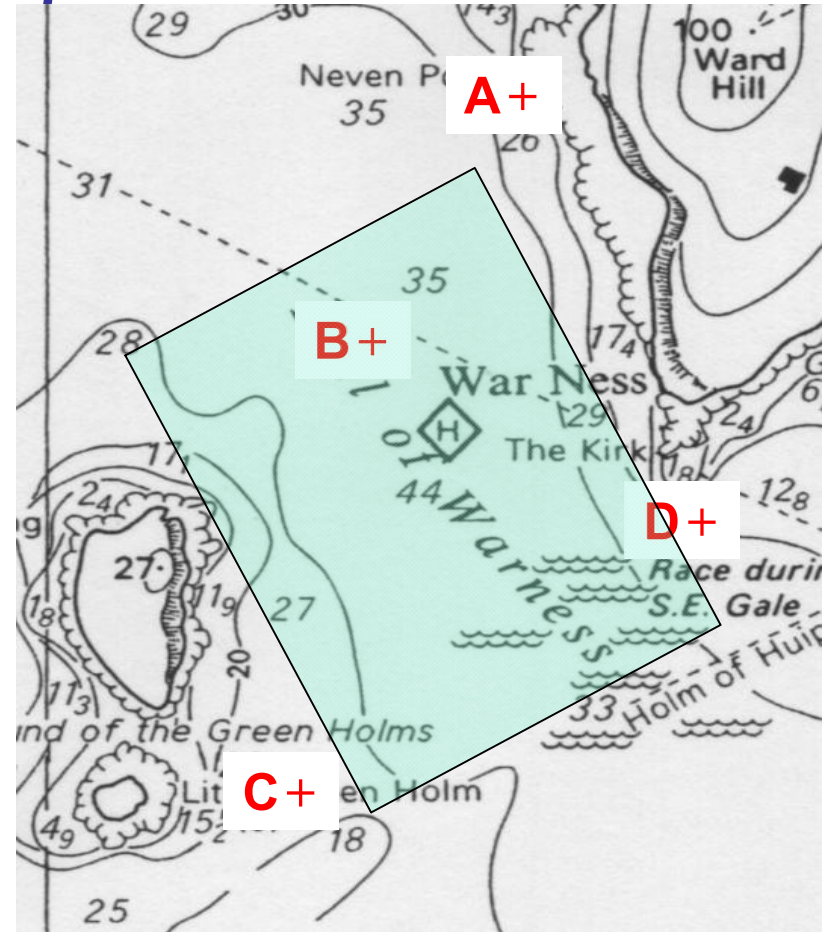
- Gives criteria for test sites & facilities
- Shows key parameters of performance
- Suggests how & what to measure
- Indicates how testing and reporting should be done
- Lists the uncertainties involved in calculating performance



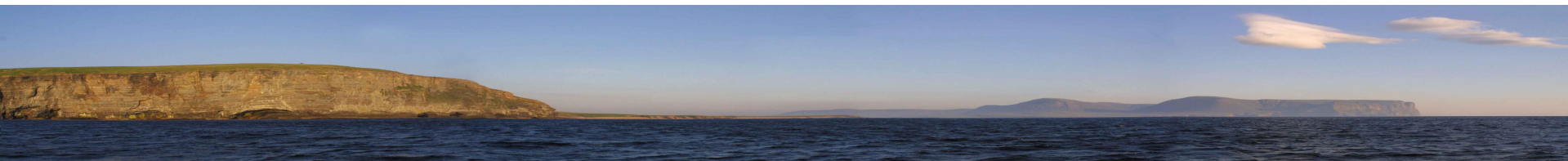
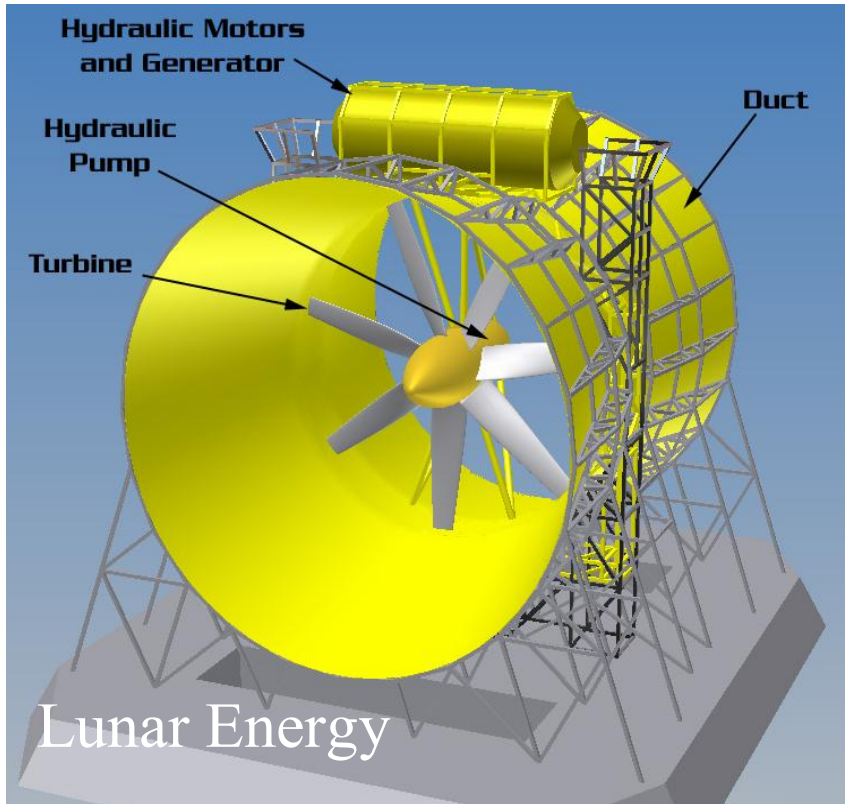
## Tidal Project Site

### Scope

- 4 Berths 10-50m
- Grid connected
- 3.5m/s flow
- Sheltered area
- Available 2005



# Tidal Projects



# **FREDS Marine Energy Workshop**

May 2005

Andrew Mill - Managing Director  
European Marine Energy Centre Ltd

