

# The Pentland Firth Plan

## Scotland's Marine Energy Potential



**Roy Kirk**

Area Manager

Highlands & Islands Enterprise

# What I will cover



- Marine Energy
- Issues for the Industry
- Pentland Firth Tidal Energy Project

# Pentland Firth Tidal Energy Project



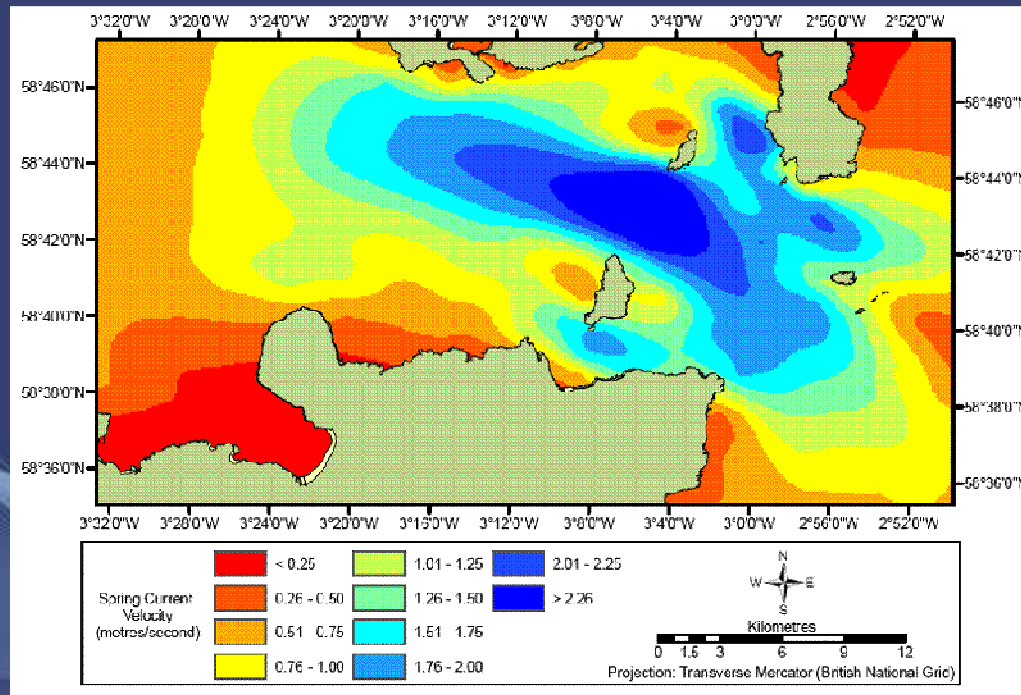
## Pentland Firth

- Caithness
- Orkney Islands

# Marine Energy

- Security of Supply
- Renewables Targets
- Sustainable Economic Development
- Job Creation around the Pentland Firth

# Marine Energy Introduction



- History
- Why is marine energy so complex

# Marine Energy

```
graph TD; ME((Marine Energy)) --- GI((Grid Improvements  
Grid Studies)); ME --- RnD((R&D  
Technical Challenges  
EMEC/ICIT  
ERI/Demo Areas)); ME --- EC((Environmental Considerations  
Framework for  
Stakeholder liaison)); ME --- SS((Skills Shortage  
Skilled Workforce  
Locally)); ME --- PC((Planning/Consents  
Crown Estates,  
Consenting route map,  
Planning 9 months));
```

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# Pentland Firth Tidal Energy Project

## Project Board

The Highland Council



Highlands & Islands Enterprise



Scottish Government



Nuclear Decommissioning Authority



The Crown Estate



# Pentland Firth Tidal Energy Project

## Project Vision

“To support the development of a globally important marine energy industry in the Pentland Firth to the significant benefit of the local and national economies in a sustainable and environmentally aware way.”

# Pentland Firth Tidal Energy Project

## Where we can help

- Resource and constraint mapping.
- Grid connection both within Scotland and as part of UK and Europe grid planning.
- The development of a project model that reflects the needs of industry.
- Opportunities for investment.

# Pentland Firth Tidal Energy Project

## Where we can help

- Opportunities for investment.
- Local supply chain opportunities.
- Consenting and regulation.

# Project Staff

## Duncan Mackay

- Wave & Tidal developments (UK) for the Crown Estate
- Technical & Commercial



# Project Staff

Louise Smith

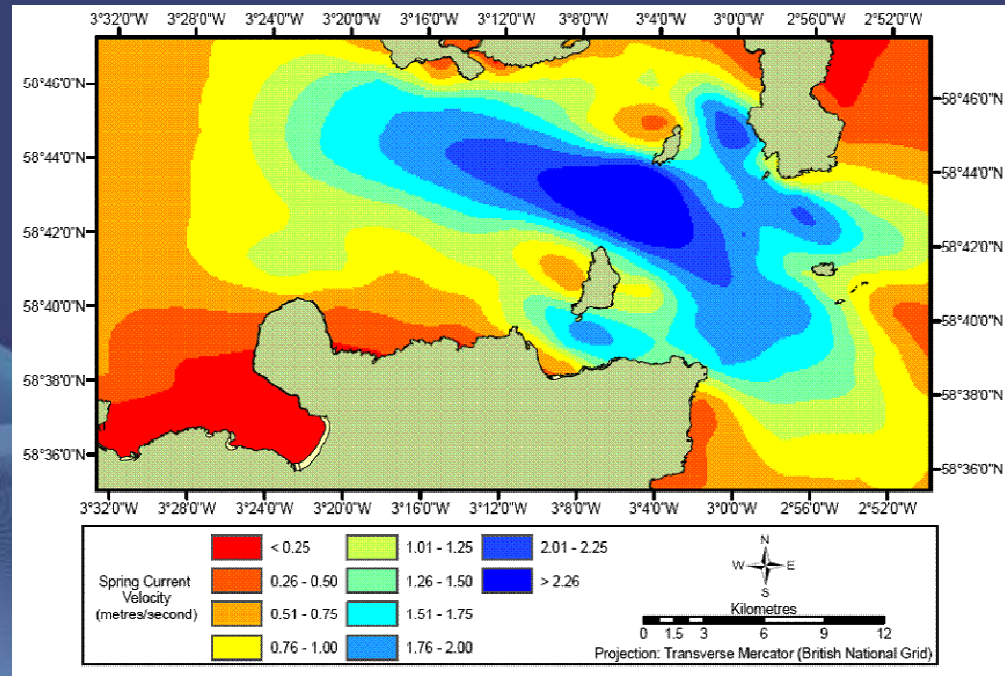
- Highlands & Islands Enterprise
- Supporting supply chain development
- Stakeholder consultation



# Pentland Firth Tidal Energy Project

## What we are doing now

- Marketing
- Project Planning
- Commissioning early studies
- Stakeholder engagement



# Pentland Firth Tidal Energy Project



Thank you