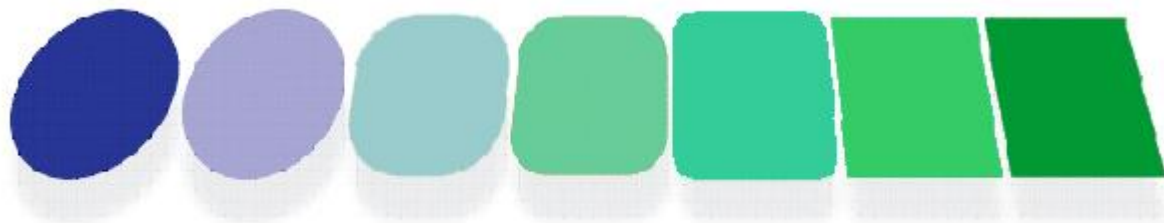




# From Blue to Green: The Route to Resource



**Michael Hay**  
**Marine Renewables Development Manager,**  
**BWEA**

**All-Energy, Aberdeen**  
**26<sup>th</sup> May 2005**

THE BRITISH  
**WIND ENERGY**

ASSOCIATION



# BWEA

- **UK's largest renewable energy trade association**
- **320+ Company members**
- **Champion the UK Wind and Marine renewable energy sectors**
- **107 company members in Marine Focus Group**
- **Co-ordinate industry**
- **Connect industry in key areas**
- **Lobby Government**
- **Conduct studies to support industry**
- **Raise Profile**

**[www.bwea.com/marine](http://www.bwea.com/marine)**



# Overview

- **UK Resource**
- **Delivery aspirations**
- **UK Strengths**
- **Where are we now?**
- **Next stage: A balanced approach**
- **Supporting responsible development**
- **What's going on just now in the UK?**
- **Conclusions**

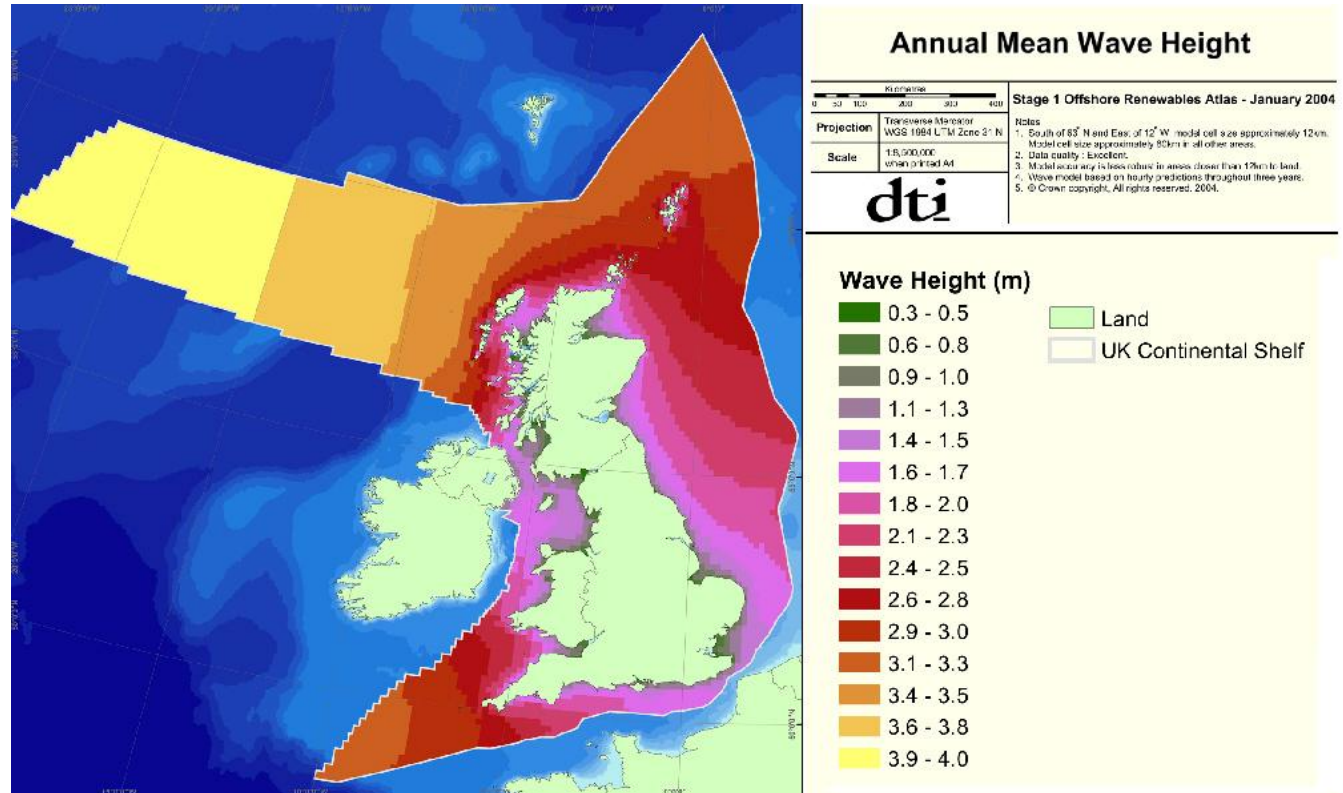
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# Delivery aspirations

- A huge potential power source
- Wave:



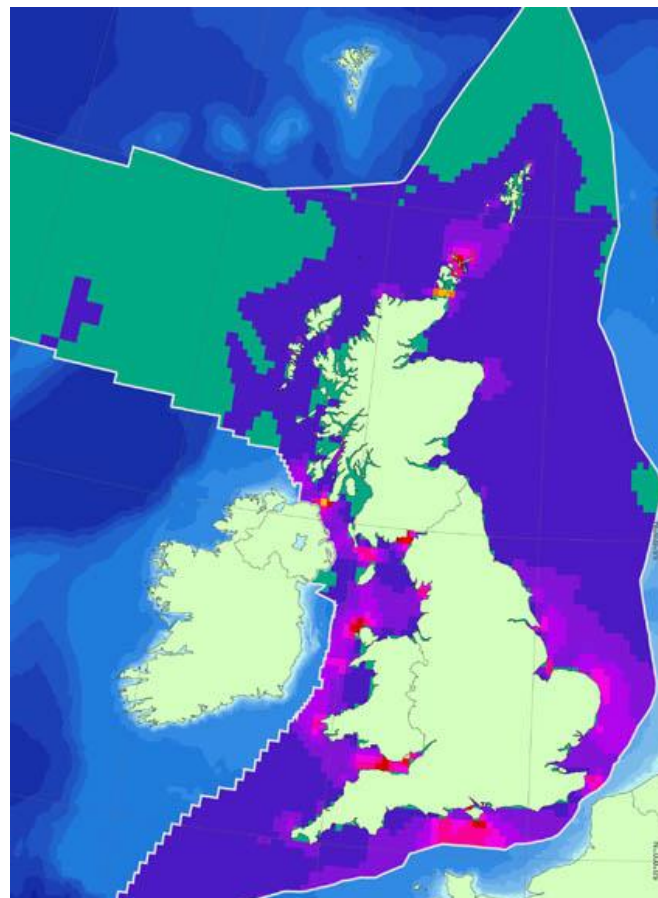
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# Delivery aspirations

- A huge potential power source
- Tidal Stream:



## Average Tidal Power (kW / m<sup>2</sup> of vertical water column)

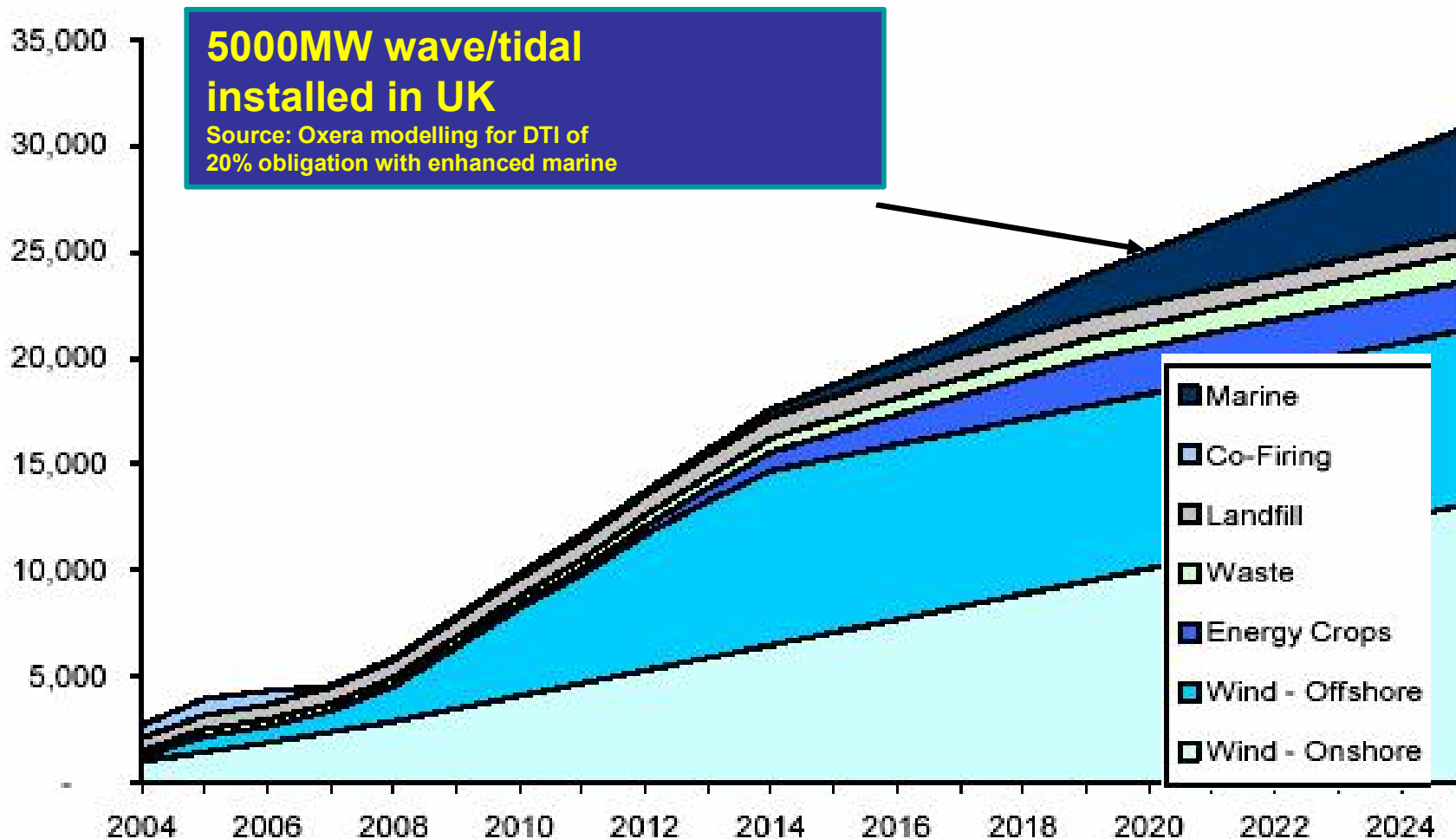


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# Delivery aspirations



# Build upon UK strengths

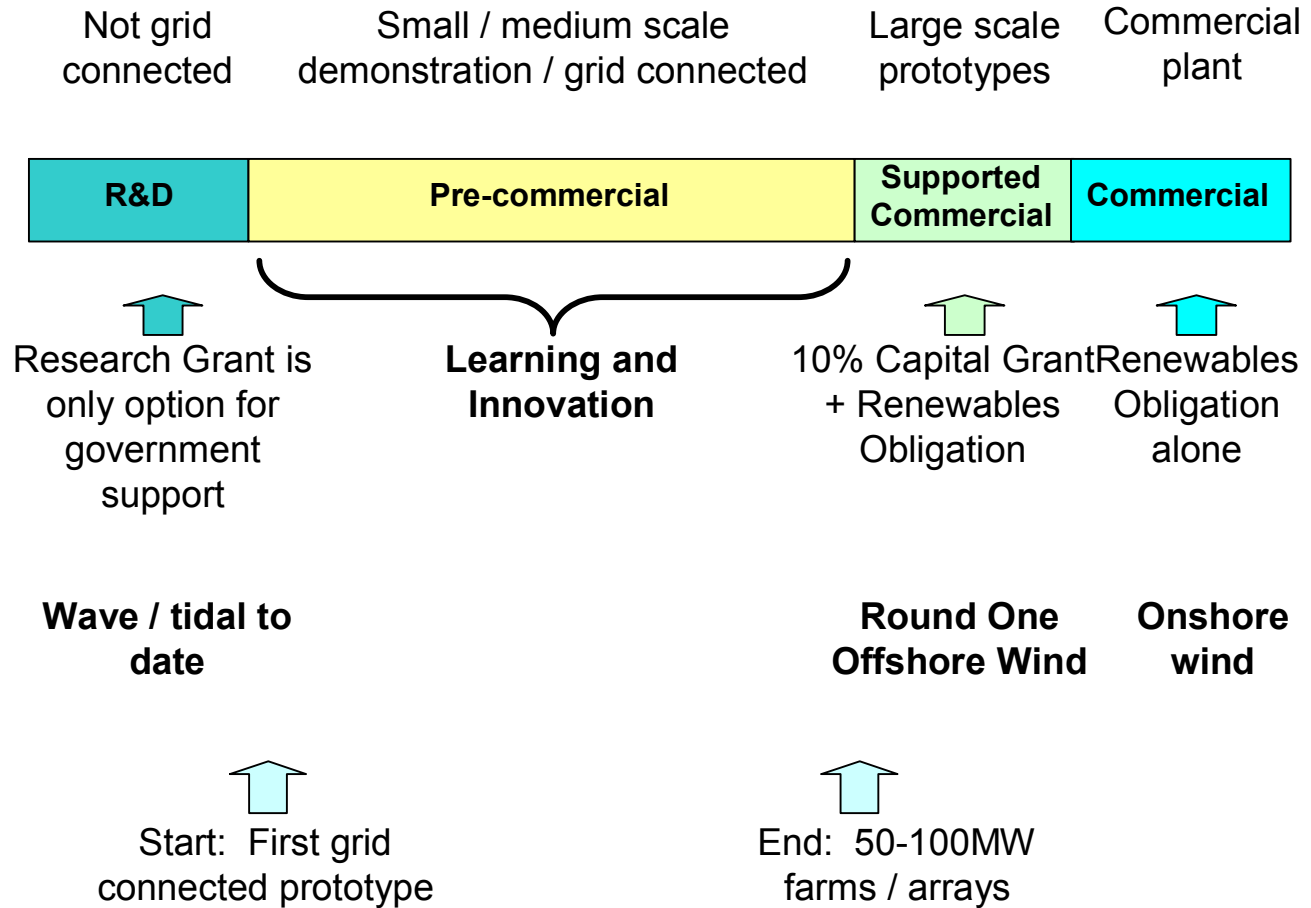
- **Testing Facilities:**
  - New and Renewable Energy Centre (NaREC)
  - European Marine Energy Centre (EMEC)
  - Looking at developing a ‘Wave Hub’
- **Government Support:**
  - Renewable energy targets
  - RO until 2027
  - Funding for development
- **UK Companies looking to build projects**
- **Offshore engineering skills base**

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# Need for learning and innovation



# Need for learning and innovation

R&D



Wave / tidal to  
date

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# The next stage must balance key requirements

- **Investors:**

- Need confidence in a 'Route to Resource'
- Require returns
- Need to know that the device works efficiently

- **Stakeholders:**

- Will require confidence in technology and deployment
- Need to understand impacts
- Must be consulted early

- **Striking a balance = communication**

- involving all actors working together

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# Supporting responsible development

- **Looking at strategic planning options:**
  - In collaboration with DTI, DEFRA etc
  - Must allow for different types of technologies
  - Must understand investors requirements
- **Stakeholder engagement**
  - Key groups will be consulted early
  - Need for consensus on best way forward
  - Allowing for increased confidence in industry
  - Building upon experiences of offshore wind



# What's going on just now?

- DTI £42m funding scheme
- Carbon Trust 'Marine Energy Challenge'
- EMEC wave and tidal stream facilities
- ABP Mer / CCW study on potential impacts
- Wave Hub developments advancing
- DTI / DEFRA workshops on next stage
- Crown Estate assessing lease conditions
- DEFRA Marine Spatial Planning Pilot
- BWEA helping to increase confidence



# In Conclusion

- **Considerable economic and environmental benefits to be gained (or lost)**
- **Government is putting out positive signals but longer term continuity will be required**
- **£42m is only the first, albeit vital, step**
- **Technology developers and investors are looking towards projects**
- **The experiences of offshore wind will help guide this emerging sector**
- **Industry needs to strike a balance for next stage:  
New business investors – Stakeholders requirements**
- **Industry will work with stakeholders to facilitate an environment for confident development**

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# BWEA Marine

[www.bwea.com/marine](http://www.bwea.com/marine)

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