

# UK Marine Renewable Energy Strategy, Policy & Support

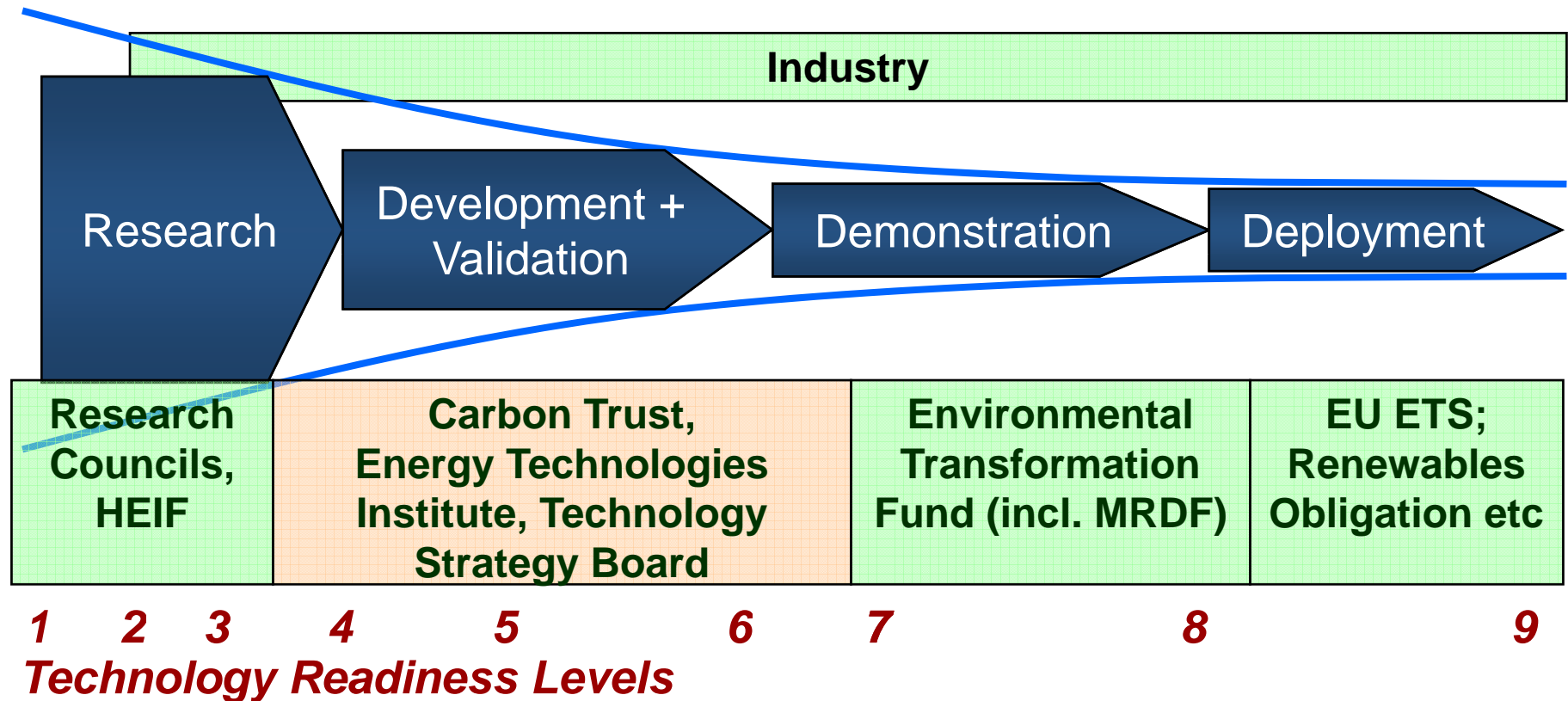
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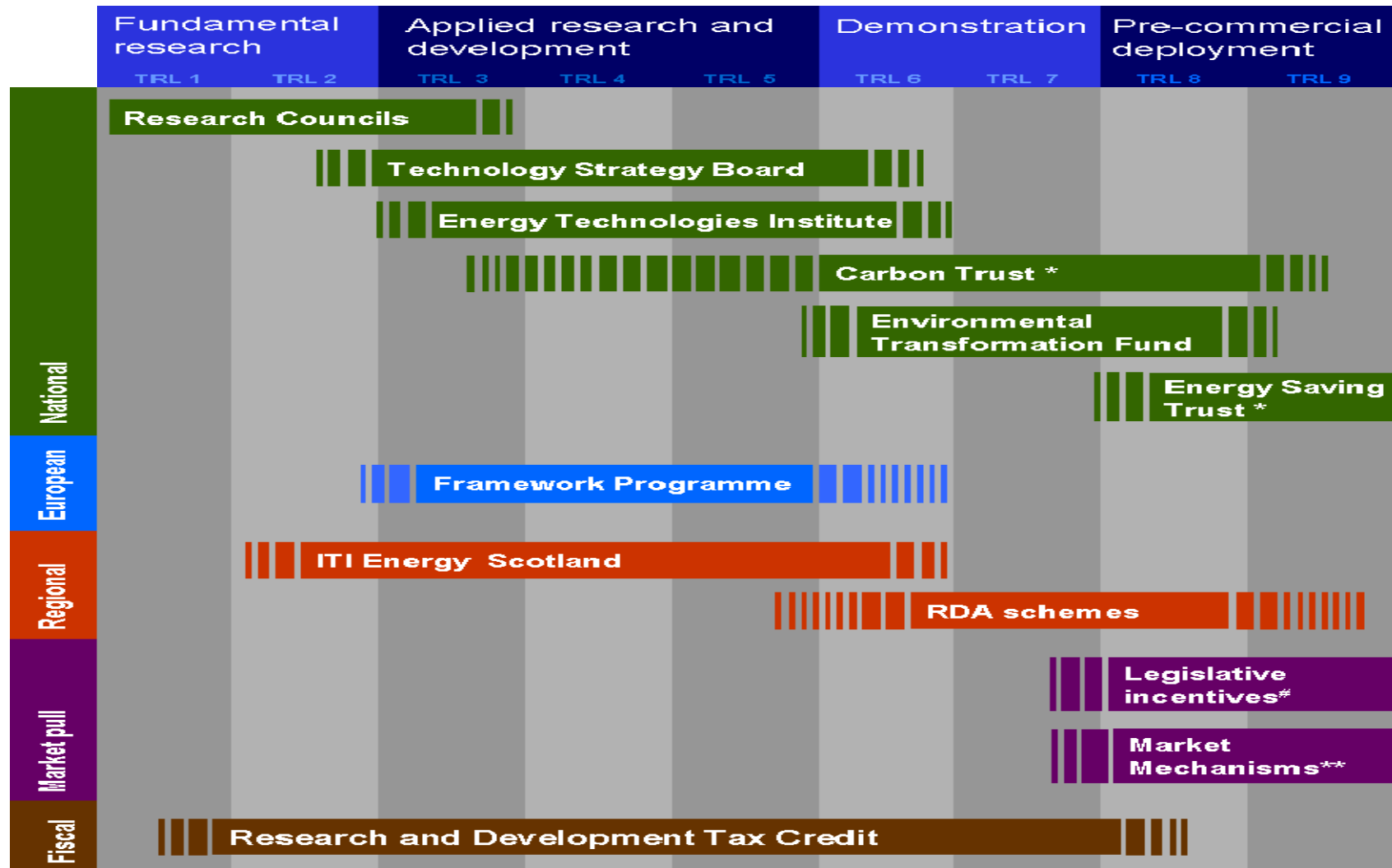
Global Marine Renewable  
Energy Conference  
Washington DC  
16 April 2009

# Marine renewable support

Technology push and  
knowledge transfer...

... market pull/public policy





\* Carbon Trust & Energy Saving Trust technology demonstration is part of the Environmental Transformation Fund

\*\* Such as the EU Large Combustion Plant Directive, and technology standards

\*\* Such as the UK Renewable Obligation and the EU Emissions Trading Scheme

# Carbon Trust/Research Councils



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- **Carbon Trust** has a number of activities which can support marine research across tech readiness levels. Includes Applied Research & Marine Energy Challenge/Accelerator programmes
  - **SuperGen Marine** consortium – £9m high quality basic research funded by Engineering & Physical Sciences Research Council (EPSRC)

# Technology Strategy Board

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- Mission is to promote and support research and development of science and technology for the benefit of business – reports to DIUS
- Total budget of over £1bn - includes funding for development of energy technologies
- Has supported a large number of the marine energy devices currently under development or being tested at scale

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- **Mission:** To accelerate development, demonstration and eventual commercial deployment of a focused portfolio of energy technologies, which will increase energy efficiency, reduce greenhouse gas emissions and help achieve energy and climate change goals.

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- Partnership between Government and industry
  - HMG committed £550m over next 10 years
  - Private sector partners to date: **BP, Caterpillar, EDF Energy, E.ON UK, Rolls-Royce and Shell**
  - Launched 4 offshore wind & marine projects in January

# Marine Renewables Deployment Fund (MRDF)

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- £50m fund announced in August 2004
- Four components:
  - Wave and Tidal-stream Energy Demonstration Scheme (£42m), environmental research & related research, infrastructure support.
- Includes support for work at EMEC, standards activities, Wave Hub etc
- Renewables Advisory Board report (Feb 2008) endorsed aims and design of the MRDF scheme

# Renewables Obligation

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- **Renewables Obligation** – green electricity trading scheme (renewables obligation certificates - ROCs)
- “Banding” the obligation from April 2009 to award marine energy technologies (and other emerging technologies) double ROCs
  - cf Scottish Marine Supply Obligation and proposals on ongoing support under the Scottish RO
- Banded ROCs should run alongside MRDF

# Other Policy Instruments & Initiatives

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- **Scotland:**

- **Marine Supply Obligation** – to be replaced by enhanced banding of the **Renewables Obligation Scotland** (3 ROCs for Tidal, 5 ROCs for Wave)
- **Wave and Tidal Energy Support Scheme (WATES)** – later stage research funding to accelerate development of a range of technologies
- **Saltire Prize** - £10m prize announced in December 2008 - first technology to achieve a minimum electrical output of 100GWh over a continuous 2 year period. Based on Ansari-X Prize model

# Other Policy Instruments & Initiatives

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- **EU SET Plan:** EU considering how marine energy can be supported – initial workshop in January to look at options. Next steps to be decided.

# Renewable Energy Strategy

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- Produce a strategy by Summer 2009 for meeting the UK share of the EU 2020 target
- Need to do so in a manner that is:
  - Cost-effective
  - Coherent with wider energy, climate change & broader policy goals
  - Makes sense for the long term
- Final UK strategy published: June 2009
- National Action Plan agreed: March 2010
- Section on marine will cover wide range of issues – financial support, removal of barriers (planning, grid access...) etc.

*Hit the world running* UK

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