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PerAWAT Event London 20th January 2014

Simon Cheeseman – ETI Marine Programme Manager

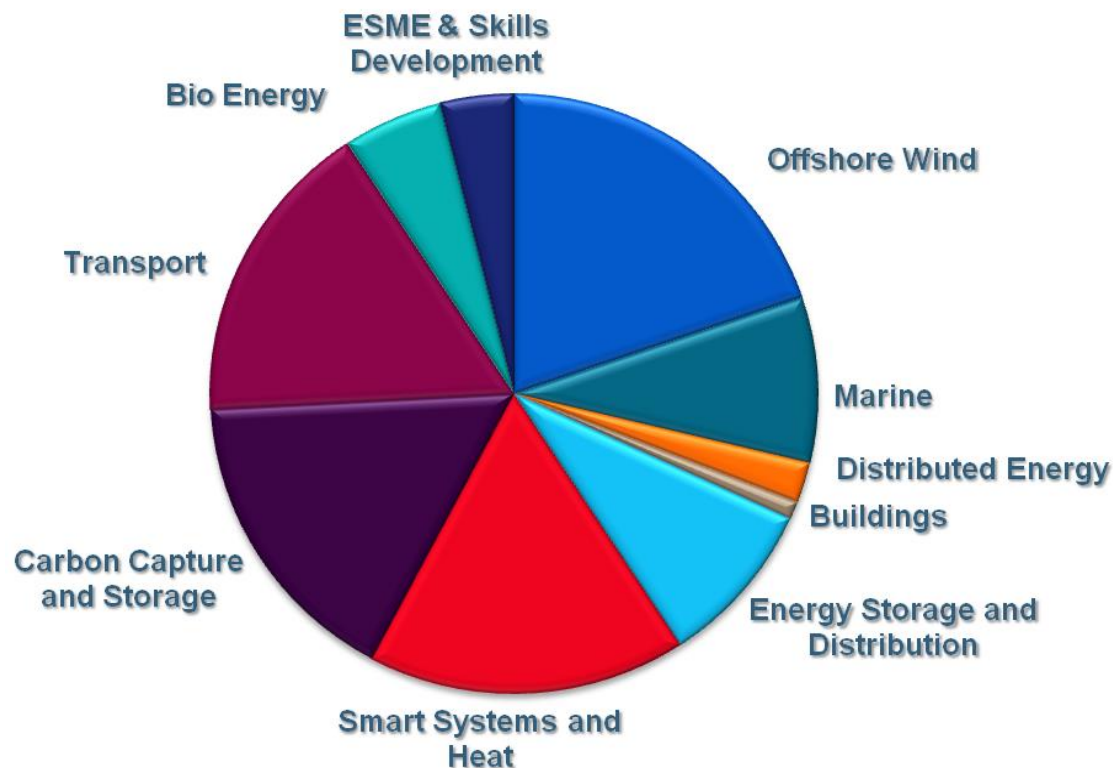
Who is the ETI?



- The Energy Technologies Institute (ETI) is a public-private partnership between global industries and UK Government
- Safeguarding affordable and secure future energy mix
- Delivering proof of concept for new energy technologies
- Our projects impact economic development



ETI Project Portfolio



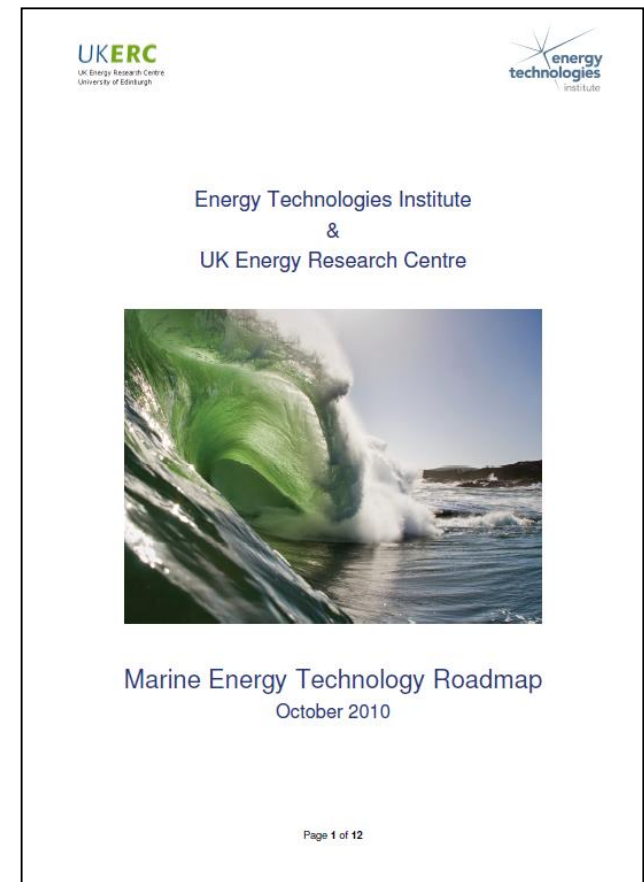
9 Technology Programme areas

Delivering...

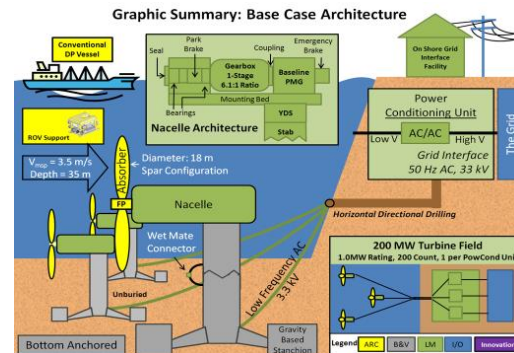
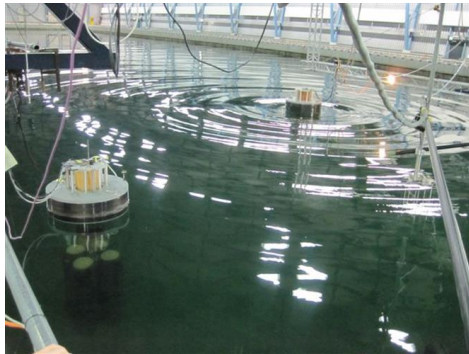
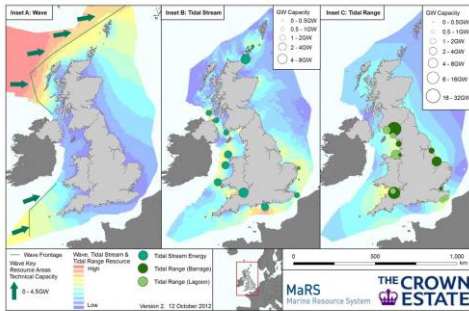
- New knowledge
- Technology development
- Technology demonstration

ETI / UKERC Roadmap

- Published in October 2010
- Provides the ETI / UKERC view on:
 - The key technology & deployment issues facing the UK marine energy sector
 - How these issues should be prioritised (in the context of potential ETI interventions)
 - Technology cost and performance targets to 2050 that will be required to deliver significant UK deployment
- Used by ETI to help define project interventions



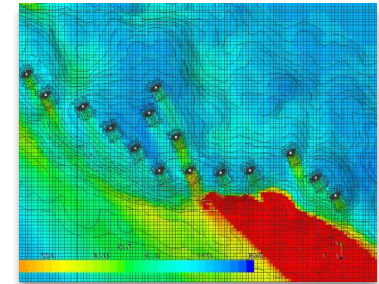
ETI Marine Energy Projects Portfolio



Performance Assessment of Wave and Tidal Array Systems - PerAWaT

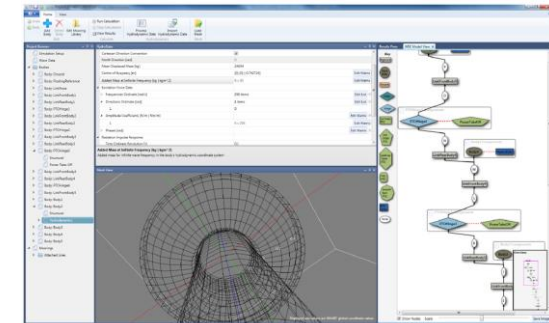
What?

- Project value £8m. Commenced 2009 completed end 2013.
The development of validated software tools for assessing and optimising wave and tidal array energy yield



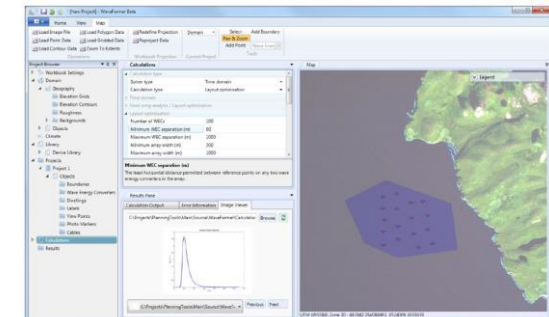
How?

- Extensive CFD and non-linear numerical modelling, validated against scale model array tests (laboratory & sea).
Commercial tools released in Q2 2014 Tidal Farmer & Wave Farmer to optimise array designs



Why?

- To de-risk project investment and improve array economics





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