UK Science & Innovation Network

Summary Report

UK-India Workshop on Wave & Tidal Energy

Wednesday, 29 October 2014
Chennai, India

Jointly organised by:
UK Science & Innovation Network India
and
Knowledge Economy

in partnership with:
Energy, Climate and Growth Unit

For more information about this workshop, please contact:
Dr Vijay Iyer
UK Science & Innovation Network India

AGENDA

0930	Registration
0945	Introduction and Welcome
1000	Showcasing the UK's capabilities in wave and tidal energy • **Robin Wallace**, University of Edinburgh • **Lucy Greenhill**, Scottish Association for Marine Science • **Tim O'Doherty**, Cardiff University • **Gregorio Iglesias**, Plymouth University • **Vengatesan Venugopal**, University of Edinburgh • **David Ingram**, University of Edinburgh
1115	Tea/Coffee
1130	**S. A. Sannasiraj**, Indian Institute of Technology Madras
1145	**M. A. Atmanand/Purnima Jalihal**, National Institute of Ocean Technology
1215	Group Discussion
1300	Lunch
1345	Next Steps
1445	Tea/Coffee and Close

Summary of potential UK-India collaboration opportunities

Opportunities
• Development of an experimental tidal plant • Identification of gaps in national policies • Engagement with stakeholders from industry and government • Capacity development in research organisations in India • Development of roadmaps – R&D, deployment, policy, sectoral development • Engagement with local community • Engaging with funders using a top-down approach • Exploring various funding programmes such as UKIERI, Global Innovation Initiative, Prosperity Fund
Potential joint research projects
• Transfer of human capacity (skills development) • Wave farms for coastal defence • Reliable slow speed generators • Affordable condition monitoring • Floating tidal stream turbines • Roadmap for workable offshore renewable energy industry in India • Wave farm aquaculture/offshore renewable energy with off grid applications • Marine microgeneration • Fluid structure interaction • Resource assessment and mapping • Desalination using Ocean Thermal Energy Conversion • Morphodynamics in the presence of tidal stream turbines • 1 MW feasible wave farm under water (demonstration project) • Installation vessels/rigs • Energy storage • River basin technologies • Extremes and scalability • Ecosystem impact • Substructure concepts for offshore wind