

Session B5: Offshore Consenting and Environmental Research

Guidelines in the use of Met Ocean data through the lifecycle of marine renewables projects

**Bill Cooper
Managing Director**

Presentation:

- Rationale for the project
- Scope of study
- Assembled project team
- Funders
- Publication route
- Steering group
- Timeline of activities



Rationale for the project:

- **Bourne out of frustration!**
- **Growing need to learn lessons quickly**
- **Met Ocean influences are the defining characteristic to differentiate from onshore equivalents**
- **Help to demonstrate and share examples of best practice from across the industry with others**
- **Contribute to a wider strategy of reducing risk and increasing confidence in the industry**



Scope of Study:

- **primary consideration to wind, wave and tidal issues**
- **applicable to all marine renewable development types**
- **applicable to all phases of project development**
- **relevant to different users – developers, consultants, contractors**
- **deliverable will be ‘Guidance’ and not a ‘Standards’ document**

Assembled project team:

ABPmer



SeaRoc UK



Met Office



Project leaders
Shallow water characterisations
Down-time analysis
Data quality reviews
Project reporting
Engineering managers
Marine coordinators
Contractor & developer liaison
Construction specialists
Key data providers
Forecast expertise
Met ocean analysis
Scientific review

Funders:

The Crown Estate



E.ON UK



Scottish and Southern Energy



DONG energy



Publication Route:

- Deliberate choice of an authoritative, independent, industry recognised body

CIRIA

www.ciria.org



Construction Industry Research and Information Association

A company owned by other companies, universities, government departments and other public sector agencies, organisations and regulators - including representatives from all parts of the supply chains of the modern built environment

Steering Group:

- **Comprising representatives of the project team, funders, publisher, plus an independent technical reviewer**

Bill Cooper, ABPmer

Dr Andy Saulter, Met Office

Peter Hodgetts, SeaRoc UK

Prof Mike Cowling, The Crown Estate

James Doyle, E.ON UK

Robin Burnett, Scottish and Southern Energy

Mathilde Damsgaard, DONG energy

Nick Bean, CIRIA

Ed Frost, RES

independent peer reviewer

Timeline of activities (1):

Work Packages	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Project Planning							
Industry Engagement		BWEA28					
Project Lifecycle							
Data & Formats							
Case Studies							
Reporting							
Dissemination							

Timeline of activities (2):

WP02 - Industry Engagement

- project team making deliberate efforts to advertise the project and obtain feedback
- project has already drawn positive endorsement from a cross-section of the industry, including:
 - oceanographic survey companies, project developers, installation contractors, design engineers, consultants, stakeholders, industry associations, insurers
- aim to compile a list interested groups to receive updates and involve in dissemination phase

Timeline of activities (3):

WP03 – Project Lifecycle



- Pre-consent: site selection, resource validation, outline design, environmental impact assessment
- Post-consent: preliminary design, detailed design, planning & procurement
- Construction: build contractor plant, weather risks
- Operation & Maintenance: service plant, weather risks
- Decommissioning: contractor plant, weather risks

Timeline of activities (4):

WP04 – Data & Formats

- **guidance for different data types through project phases, and associated data limitations**
 - selecting data to be ‘fit for purpose’ according to project requirement
 - quality, accuracy, reliability, confidence and risk
 - time & cost
- **data types**
 - measurement, modelled
 - broad to fine scale, short to long-term, deep to shallow water, etc
 - analysis and presentation

Timeline of activities (5):

WP05 – Case Studies

- review examples of best practice already being demonstrated across the marine renewable industry
- inclusion of offshore wind, wave and tidal projects
- inclusion of best practice from other industries
- key involvement of industry



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Timeline of activities (6):

WP06 – Project reporting

- participation of steering group
- independent peer review

WP07 – Dissemination

- activity managed by CIRIA
- scheduled for March 2007
- considering dissemination event(s) now – details tbc





Thank you

Project Contact: Nick Bean, CIRIA

Email: marinerenewables@ciria.org

<http://www.ciria.org/rp742.htm>