



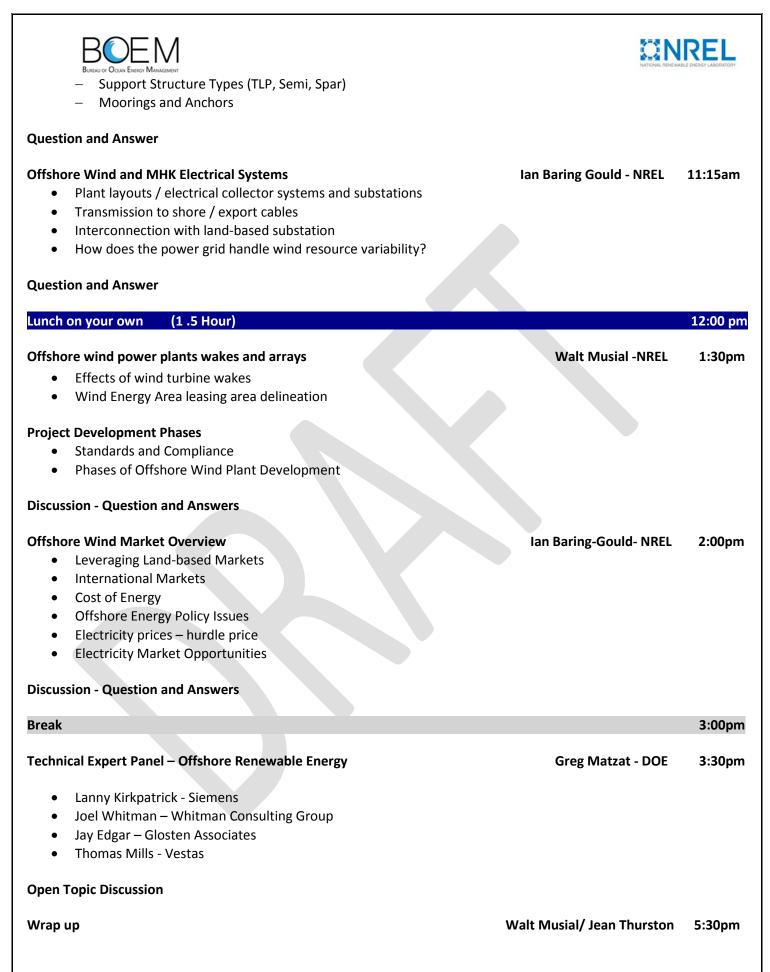
## **BOEM Offshore Renewable Energy Workshop**

**Oregon Museum of Science and Industry** 

1945 SE Water Ave Portland, Oregon May 21 - 22 2013

## Sponsor: Bureau of Ocean Energy Management Training Coordinator: National Renewable Energy Laboratory

Day 1 - May 21 Offshore Wind Focus		
<ul> <li>Opening Session – Offshore Wind</li> <li>Welcome and Opening remarks</li> <li>BOEM HQ (BOEM)</li> <li>Meeting Goals and Objectives (NREL)</li> </ul>	Walt Musial - NREL	8:30am
<ul> <li>Regulatory Introduction BOEM</li> <li>Evolution of Offshore Wind Regulation on the OCS <ul> <li>EPAct 2005 Requirements and Consequences</li> <li>National Programmatic EIS</li> <li>Overview of 30 CFR 585 Framework</li> <li>"Smart from the Start" Program</li> <li>FERC/BOEM interface on the OCS</li> <li>BOEM Intergovernmental Oregon State Task Forces</li> </ul> </li> </ul>	Jean Thurston - BOEM	8:45am
<ul> <li>DOE - Offshore Wind and MHK Overview</li> <li>DOE National Offshore Strategy</li> <li>Review of DOE Projects and Programs</li> </ul>	Greg Matzat - DOE	9:15am
<ul> <li>Wind Technology Overview</li> <li>Energy in the Wind</li> <li>How to Judge a good wind resource potential</li> <li>Wind Turbine 101 – How do wind turbines work?</li> </ul>	Ian Baring Gould - NREL	9:30am
BREAK		10:00am
<ul> <li>Offshore Wind Overview</li> <li>What do offshore wind turbines look like?</li> <li>Industry Status</li> <li>Modern multi-MW offshore wind turbines</li> <li>Floating Wind Turbines <ul> <li>Why go floating? Possible benefits</li> <li>Resource potential in deep water</li> <li>Industry status</li> </ul> </li> </ul>	Walt Musial - NREL	10:30am







## Marine Hydokinetic Focus

Day 2 - May 22 N	larine Hydokinetic Fo	cus	
<ul> <li>Opening Session – MHK</li> <li>Opening remarks and key Message</li> <li>Regulatory opening remarks (BOEN</li> <li>Meeting Goals and Objectives (NRE</li> </ul>	л)	Musial/Thurston	8:30am
<ul> <li>FERC Regulatory Perspective</li> <li>FERC jurisdiction on the OCS</li> <li>Types of authorizations</li> <li>Licensing process</li> <li>Key concepts and implementation</li> </ul>		Ann Miles - FERC (invited)	8:45am
Environmental Lessons -Terrestrial Wind a	nd MHK Research	Robert Thresher- NREL	9:15am
Offshore Wind Impacts, Competing Uses, Discussion – Questions and Answers	and Economic Development	Ian Baring-Gould - NREL	9:45am
Break			10:15am
<ul> <li>Ocean Wave Energy Technology</li> <li>Marine energy resource estimates</li> <li>Ocean wave technology - present &amp;</li> <li>Wakes and Arrays (alternative use</li> <li>Modeling and Analysis – Design Co</li> <li>Highlight in electrical aspects differ</li> <li>International Markets/Projects</li> <li>U.S. projects being developed</li> <li>Projected cost of energy</li> <li>Device Testing and the National Mathematical Markets</li> <li>The Technology Readiness Level detection</li> </ul>	impacts e.g. fishing) des rence from offshore wind arine Energy Centers	Robert Thresher - NREL	10:45am
Discussion - Question and Answers			11:30am
Lunch on your own (1 ½ hours)			12:00 noon
<ul> <li>Industry Panel Discussion - Marine Hydrol</li> <li>Reenst Lesemann, Columbia Power</li> <li>Bill Staby, Resolute Marine Energy</li> <li>Jason Bush – Oregon Wave Energy</li> </ul>	r Technologies	Robert Thresher – NREL	1:30pm
Meeting Wrap-Up		Jean Thurston – BOEM	2:45pm
Adjourn Public Meeting			3:00pm