



Renewable Energy Research Laboratory

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Wind Energy in New England Islands and Coastal Communities: Wind Energy on the Community Scale

Agenda

Islands and coastal communities have a special interest in wind power for several reasons:

1. They have wind. Much of New England's best wind resource is on its islands and along the coast.
2. Energy often sells at a premium on islands, whether the island is connected to the grid by cable or they produce power locally. Some coastal communities also either use submarine cables, or are the on-shore terminus for island power.
3. Coastal communities and islands share some environmental issues that can influence the feasibility of wind power. They also may share similar impacts from the forecast rising ocean levels caused by global warming.

These and other issues will be discussed by experts in the field at this conference.

Wednesday, December 4th: Wind Energy Technology workshop & tour

Time	Program	Speaker
8:00	Registration and Continental Breakfast	
8:30	Welcome & Introduction	Christine Reinfelds, Deputy Director, US DOE Boston Regional Office
8:45	Wind Technology Today: Applications at various scales	
	<ul style="list-style-type: none"> • Home, small business, and farm -scale 	Trudy Forsyth, National Renewable Energy Laboratory
	<ul style="list-style-type: none"> • Community-scale (50 kW – 4 MW, grid-connected) 	Tony Rogers, UMass-Amherst; John McLeod, Hull Municipal Light Board
	<ul style="list-style-type: none"> • Hybrids: power for islands that aren't connected by cable to the mainland 	Lawrence Mott, Northern Power Systems
	<ul style="list-style-type: none"> • Offshore Wind Power & Submarine power cables 	Jim Manwell, UMass, RERL
12:30	Tour of Hull Municipal Light Plant Vestas 660 kW (Bag Lunch, bus to wharf, charter boat to Hull, tour & presentation in Hull, boat & bus back to UMass Boston)	John MacLeod & Malcolm Brown, Hull Light Jim Manwell, UMass, RERL Presentation by DOE
4:30	Reception on the boat, moored at Hull, cash bar. Return by boat and bus	
7:30	Arrive back at UMass Boston	

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Thursday, December 5th, Morning: Informational panels

7:45	Registration And Continental Breakfast	
8:15	Welcome and Introductory Remarks	Richard Michaud, US Department of Energy, Boston Regional Office
8:30	Wind Energy: Technology, Markets & Economics	Walter Musial, National Renewable Energy Laboratory
9:00	Environmental & Economic Benefits Of Wind Power	Deborah Donovan, Union of Concerned Scientists
9:30	Panel #1: Wind Energy On Islands – What Are Islands’ Special Issues? <ul style="list-style-type: none"> • Overview of power for islands: why islands have their own power issues. • Power options for islands • Wind Power feasibility in the New England Islands Presentation of RERL/DOE New England Island study • Renewable Energy Feasibility in the Boston Harbor Islands: Presentation of UHI/RERL/MRET study of renewable energy for Boston Harbor Islands issues 	Chair: Sally Wright, RERL, UMass <ul style="list-style-type: none"> • Malcolm Lodge, Island Technologies Inc. • Lawrence Mott, Northern Power Systems • Mohit Dua, Renewable Energy Research Laboratory, UMass, Amherst • Jack Wiggan, Urban Harbors Institute, University of Massachusetts at Boston
10:50	Break with refreshments in the exhibit area	
11:10	Panel #2: Legal Issues Faced By Coastal Communities & Islands That Want Wind Power <ul style="list-style-type: none"> • Permitting, zoning • Noise, setbacks • Coastal zone requirements in and near water • Land use questions <ul style="list-style-type: none"> • Public land • Private lands, protected for forestry, agriculture, etc. (e.g. MA Chapter 61) • Conservation commissions 	Chair: Rich Delaney, Urban Harbors Institute <ul style="list-style-type: none"> • Steve Burrington, Conservation Law Foundation • Jane Mead, Project Review Coordinator, Massachusetts Office of Coastal Zone Management • Rob Sydney, Massachusetts Division of Energy Resources • Peter Gish, UPC Wind Partners, LLC
12:00	Luncheon Presentation	Dan Reicher, Executive VP, Northern Power Systems & Managing Partner, New Energy Capital

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Thursday, December 5th, Afternoon: Informational panels

1:15	<p>Panel #3: State & Federal Incentives & Programs Supporting Wind Power</p> <ul style="list-style-type: none"> • Overview of incentives & programs in each state: RPS, taxes, net metering, “Green Tags” or renewable energy credits • System benefits funds • Federal PTC • Which incentives/programs apply to remote grids 	<p>Chair: Pat Stanton, Massachusetts Division of Energy Resources</p> <ul style="list-style-type: none"> • Roger Clark, Sustainable Development Fund • Nils Bolgen, Massachusetts Renewable Energy Trust Fund • TBD • Henry duPont, Lorax Energy Systems
2:15	Break with refreshments in the exhibit area	
2:40	<p>Panel #4: Development & Financing Options:</p> <p>Relationship among:</p> <ul style="list-style-type: none"> • The developer • Equity • Ultimate ownership • Power purchase agreement • Renewable energy credit or “green tags” dealer <p>And the possibilities for:</p> <ul style="list-style-type: none"> • Co-ops • Municipal electric companies • Traditional developers for smaller scale projects 	<p>Chair: Michael Tennis</p> <p>Panelists:</p> <ul style="list-style-type: none"> • <i>Co-op</i>: Chris Tuttle, USDA, Rural Utilities Service • <i>Municipal Utility</i>: Jon Fitch, Princeton Municipal Light Dept. • <i>Credit marketing</i>: Larry Chretien, MassEnergy • <i>Developer</i>: Harley Lee, Endless Energy • <i>Marketing perspective</i>: Brent Alderfer, Community Energy, Inc. • <i>Lending</i>: John Harper, ABB Energy Capital
4:30-5:00	Review / Closing	UMass-RERL