



April 19-20, 2007

at the

UNIVERSITY OF RHODE ISLAND
Bay Campus, Corless Auditorium

From Local to Global
The Rhode Island Model
for Harnessing
Wind Power Worldwide

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From Local to Global

The Rhode Island Model for Harnessing Wind Power Worldwide

From Local to Global: The Rhode Island Model for Harnessing Wind Power Worldwide

will convene leaders and experts on wind energy, and local, state and federal government officials to address ways to meet Rhode Island Governor Donald L. Carcieri's call for 15 percent of the state's electricity to be generated by wind within the next five years. The conference will provide an in-depth examination of the complex issues involved in local development of clean renewable energy. By focusing on efforts to implement wind power in Rhode Island, the conference will demonstrate how a local initiative can become a national and global model for increasing clean renewable energy sources.

The conference will also serve as a platform for disclosing and discussing the results of RIWINDS, a yearlong study on wind energy development in Rhode Island. The Rhode Island Office of Energy Resources commissioned the study, which was conducted by Applied Technology & Management Inc. of Newport, R.I.

On the global level, three key arguments support the development of wind-generated energy:

Depletion of nonrenewable energy resources is causing shortages, resulting in spiraling increases of energy costs and harming the global economy.

Catastrophic damage from pollution and climate change from fossil fuel combustion are an increasing and measurable danger to the global environment.

International tensions over diminishing energy resources are causing geopolitical instability, including terrorism, that threatens global peace.

To pre-register please visit <http://windri.org/conference/>

Late pre-registrations will be provided with seating in an overflow room equipped with a TV screen for viewing the conference.

Conference contact

Lefteris Pavlides, epavlides@rwu.edu, 401 662.7521

8:00 - noon **Registration**

8:30 - 9:00 **Welcome and Introductions**

Robert Carothers, Ph.D, *President of the University of Rhode Island*

Andrew Dzykewicz, *Commissioner, Rhode Island Office of Energy Resources*

9:00 -10:30 **Session 1 Importance of Developing Clean Renewable Local Energy Resources**

Moderator Eleftherios Pavlides, Ph.D., AIA, *Director, Wind Power Rhode Island Project and Professor of Architecture Roger Williams University*

Presenters Willett Kempton Ph.D., *University of Delaware*

The Macro View of Offshore Wind Power Potential off the East Coast

Mark Jacobson, Ph.D., *Stanford University*

The Macro View of Wind Power Potential in the United States

10:30- 10:45 **Break**

10:45-12:15 **Session 2 Clean Renewable Energy and Global Health**

Moderator: Robert Vanderslice, Ph.D. *Chief, Office of Environmental Health Risk Assessment for RI Department of Health*

Presenters: Jonathan Levy, Ph.D., *Harvard School of Public Health*

Modeling the Health Benefits of Power Plant Emission Controls

Mark Jacobson, Ph.D. *Stanford University*

Comparing Wind, Biofuels, Coal, and Natural Gas Economics including health, climate, and landuse

Chuck Kleekamp, RE, *Clean Power Now*

Health Interpolations for Savings Resulting from the Cape Wind Project

Discussants: Bruce Egan, Sc.D., *Meteorologist expert on pollution distribution modeling*

12:15-1:30 **Lunch**

1:30-3:00 **Session 3** **Who Supports and Who Opposes Wind Energy and Why?**

Moderator: **Bob Whitcomb**, *Author “Cape Wind” and Providence Journal editor*

Presenters: **Jana Hesser**, Ph.D., *Clinical Assistant Professor Brown University*

Eleftherios Pavlides, Ph.D., *Professor, Roger Williams University*

Public Opinion in Rhode Island

Jeremy Firestone, Ph.D., *Assistant Professor, University of Delaware*

Willett Kempton, Ph.D., *Associate Professor, University of Delaware*

Public Opinion in Delaware

Lennart Damsbo-Andersen, *(former Mayor), Nysted, Denmark*

Opinions Before and After Installation in a Danish Coastal Town

Kenneth Marshall, *President, Bristol Town Council*

3:00- 3:15 **Break**

3:15- 4:45 **Session 4** **Legal & Regulatory Framework Affecting Economic Viability of Wind Power**

Wind energy poses unique challenges to the current power distribution system and triggers the following questions:

1. What will be the interconnection rules?
2. How will offshore wind power be regulated?
3. How wind electricity access the wholesale market?
4. What capacity payment will wind get?
5. What are critical regulations in support of REC markets?

Moderator: **John A. Herrick**, *Chief Counsel United States Department of Energy*

Panelists: **Robert P. LaBelle**, *The Deputy Associate Director for Offshore Minerals Management*

Dave LaPlant, *Vice President, Markets Development, ISO New England*

Mike Jacobs, *Deputy Policy Director, American Wind Energy Association*

David Kopans, CPA, CMA, *Director of Regulatory Affairs, F. S. Technologies*

Thursday Evening Program at Portsmouth Abbey

6:00 - 6:30 **Portsmouth Abbey Wind Turbine tour**

6:30 - 7:00 **Brother Joseph Byron & Paul Jestings**, *Chief of Operations, Portsmouth Abbey*

A Year's Experience at the Portsmouth Abbey

7:00 - 7:30 **Jim Gordon**, *CEO, Cape Wind*, **Keynote Address**

The Promise and Challenges of Offshore Wind

7:30 - 9:30 **Reception and Light Fare at the Portsmouth Abbey**

8:00-noon **Registration**

9:00-10:30 **Session 5 Rhode Island Wind Turbine Siting Study Presentation of Findings**

Moderator: Andy Dzykewicz, *Commissioner, Rhode Island Office of Energy Resources*

Presenters: Dennis Loria, *Project Director of RIWINDS*

Dan Mendelsohn, *VP, Applied Technology Management*

Official Presentation of RIWINDS findings - study commissioned by RI to investigate how to implement the 15% RI wind electricity goal

Patrick Charles and RWU Architecture Students

Perspective view of designing for wind

10:30-10:45 **Break**

10:45-12:15 **Session 6 Financial and business models for Rhode Island implementation**

1. Who will own the turbines? RI State Power Authority? Community wind?
2. Who will buy the electricity? Long-term purchase agreements by towns or state?
3. How will the installation be paid for?
4. How will the Renewable Energy Portfolio funds be used?

Moderator: Kenneth F. Payne, *Ph.D. Senior Policy Advisor, Rhode Island Senate*

Presenters: Matt Karcher, *Principal, Deacon Harbor Financial, L.P*

Economic Analysis Of The RIWINDS Study

Chris Stolarski, *VP Senior Vice President, Mizuho Corporate Bank Ltd.*

RI Wind Projects: A Financial Expert's View

George Sakellaris, *CEO Ameresco*

RI Wind Projects: A Developer's View

Jim Manwell, *Ph.D., Director of Renewable Research Laboratory, UMass*

Financial Models for Wind Development

Jamie Ballem, *Minister of the Environment, Prince Edward Island*

Prince Edward Island Wind Power Bonds

12:15 -1:30 **Lunch**

1:30-3:00 **Session 7** **Wind Power Impact on Wildlife**

Moderator: **David Taylor**, Ph.D. *RWU Assistant Professor of Biology*

Presenters: **Thomas K. Christiansen**, *Ministry of the Environment, Denmark*

Assessing effects of offshore wind farms on birds - conclusions from 6 years' monitoring

Jim Newman, Ph.D. *Pandion Systems, Inc.*

Comparing Morbidity & Mortality from Power Generation Sources on Avian Populations; study commissioned by NYSERDA New York State Energy and Research Development Authority

Discussants: **Eugenia Marks**, *RI Audubon Society*

John Torgan, *Save the Bay, RI*

3:00 - 3:15 **Break**

3:15-5:00 **Session 8** **Round Table Discussion, Consensus and Next Steps**

Moderator: **Eleftherios Pavlides**, Ph.D., *AIA, Professor, Architecture RWU*

Panelists: **Rhode Island Wind Power Committees and Rhode Island Wind Alliance**

Update of Rhode Island Town initiatives

Barrington

Brown University

Bristol

Jamestown

Little Compton

Middletown

Narragansett Bay Commission

Portsmouth

South Kingstown

Warren

Westerly

Andrew Dzykewicz, *Commissioner Rhode Island Office of Energy Resources*

Wind Energy Development in Rhode Island

5:00 **Reception**

HOW TO REACH THE URI NARRAGANSETT BAY CAMPUS

From Connecticut, New York, and Points West:

Via Route 1. Interstate 95N to Exit 92 in Conn. Right turn after leaving expressway, then about 1.5 miles on Conn. 2 to 78. Take Rte. 78E (a barrier divides roadway) 4 miles to Rte. 1N in Westerly, R.I. Left on Rte. 1N for about 27 miles to intersection of Rtes. 1 and 138. Make a right onto Bridgetown Rd. Continue to next traffic signal (intersection of Bridgetown Rd. and Scenic 1A). Cross intersection onto South Ferry Rd.

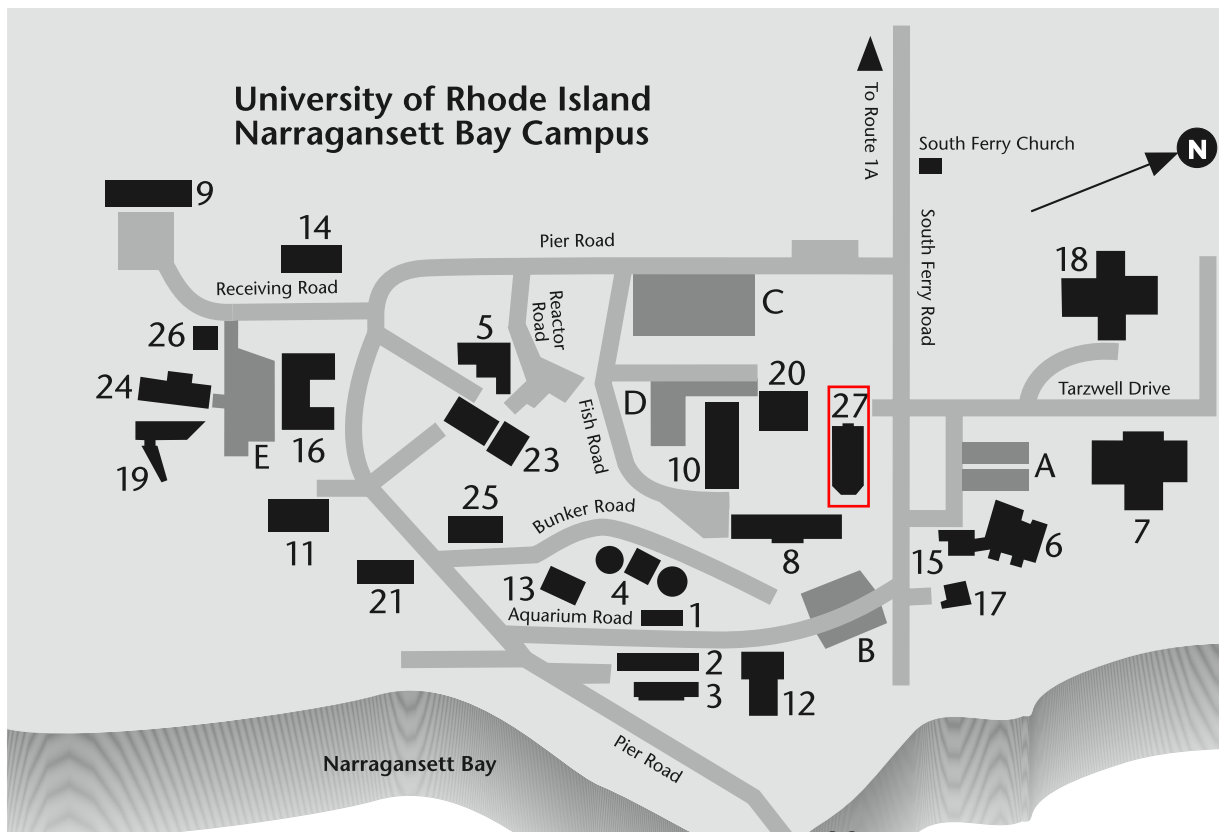
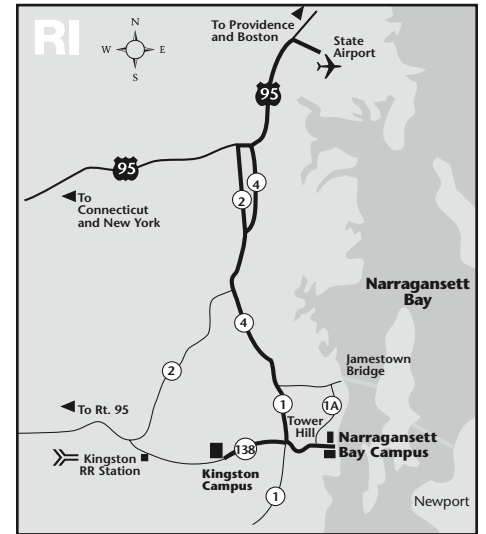
Via Route 138. Interstate 95N to exit 3A in R.I. (Kingston exit). Right turn off exit ramp onto Rte. 138E (Kingstown Rd.). Continue on 138 (passing the University's Kingston Campus on the left) to Rte. 1 and cross the junction onto Bridgetown Rd. Continue on Bridgetown Rd. to South Ferry Rd.

From Providence, Boston, and Points North:

Interstate 95S toward N.Y. and Narragansett. (From T.F. Green Airport, follow the Airport Connector signs to join 95S at Exit 13.) Continue on 95S to Exit 9 and exit in left lane off highway onto Rte. 4S. Continue to Rte. 1 and the junction of Rte. 138W. Take a left at the tower onto Bridgetown Rd. Continue to South Ferry Rd.

From Cape Cod and Points East: Rte. 195 to 24S to 138W. Cross Newport and Jamestown Bridges. Take the first Narragansett/Wickford exit and turn south (right) onto Scenic Rte. 1A. Continue south to the first traffic signal and make a left onto South Ferry Rd.

Once on South Ferry Road: Continue past South Ferry Industrial Park on the right and South Ferry Church on the left. Entrance to campus is on the right.



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|---|---|---|
| 1 Aquarium Annex | 13 Marine Building | 22 Research Vessel Pier |
| 2 Ann Durbin Aquarium Building/Ark Building | 14 Marine Geological Samples Laboratory | 23 Rhode Island Nuclear Science Center |
| 3 Aquaculture Facility | 15 Marine Resources Building | 24 Sheets Building/Ocean Engineering Department |
| 4 Bunkers A and C | 16 Middleton Building/South Laboratory | 25 Technical Services Building |
| 5 Center for Atmospheric Chemistry Studies | 17 Mosby Center/Food Service | 26 URI Foundation Annex/Boat Storage Area |
| 6 Coastal Institute on Narragansett Bay/Conference and Visitor Center | 18 NOAA/NMFS/Northeast Fisheries | 27 Watkins Laboratory/Corless Auditorium |
| 7 EPA Atlantic Ecology Division | 19 Ocean Technology Center/Equipment Development Laboratory | A Coastal Institute Parking Lot |
| 8 Fish Laboratory/Graduate School of Oceanography Administration | 20 Pell Marine Science Library/Challenger Room | B Lower Parking Lot |
| 9 Furtado Building/Central Receiving | 21 Perkins Small Boat Facility | C Upper Parking Lot |
| 10 Horn Laboratory | | D Horn Laboratory Parking Lot |
| 11 Maintenance Building/Marine Office | | E Ocean Engineering Parking Lot |
| 12 Marine Ecosystems Research Laboratory (MERL) | | |