



US Offshore Wind Collaborative

September 2008

Status of US Offshore Wind Development Activity by State

Public sector initiatives and responses to development proposals

State	Responsible Party	Action	Status
NORTHEAST			
Maine Contact: Todd Burrowes, Maine Coastal Program todd.burrowes@maine.gov	Maine Department of Environmental Protection and Land Use Regulation Commission (state agencies with primary permitting authority); and State Planning Office/Maine Coastal Program	Executive Order 31 FY 06/07, established the <i>Governor's Task Force on Wind Power Development</i> , to examine the regulatory processes and financing options currently applicable to wind power projects proposed in Maine and to recommend changes to state policies, regulatory requirements and financial incentives necessary to facilitate siting wind power projects in Maine in a way that generates the benefits of this indigenous, renewable energy resource for Maine without undue adverse effects on other natural resources values and uses.	In April 2008, Task Force's legislative recommendations were enacted, including setting ambitious goals for wind power capacity by 2020 – 300 MW from offshore wind. http://www.maine.gov/windpower (link to Task Force's report and resulting legislation)
New Hampshire Contact: Ted Diers, NH Coastal Program ted.diers@des.nh.gov	NH Office of Energy & Planning; NH Dept. of Environmental Services	NH has a “one stop” process for energy siting; procedures being developed for streamlined on-shore wind permitting that could be adapted to offshore.	Offshore wind development is more likely in adjacent state waters; high interest in developing regional siting criteria, research and technology testing.

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Massachusetts Contact: Greg Watson, Senior Advisor for Clean Energy Technology Greg.watson@state.ma.us	Energy & Environmental Affairs	Energy Facilities Siting Board approved cabling and grid connection Secretary of EEA signed-off on the Final EIR for Cape Wind.	Permitting process for project components in state waters is on-going. MMS issued a Draft Environmental Impact Statement (DEIS) received public comment; FEIS anticipated by the end of the year.
Contact: Deerin Babb-Brott, Asst. Secretary for Oceans, Deerin.babb-brott@state.ma.us		In May 2008 the MA Ocean Management Act became law, mandating the development of a comprehensive plan for state waters, including identification of offshore wind development sites,, by December 2009	The Ocean Renewables Interagency Working Group is one of several identifying sector-specific resources and needs to support the planning process. A MA Ocean Council and Science Advisory Council has been appointed. http://www.mass.gov/czm/oceanmanagement/index.htm
Contact: Nils Bolgen, Program Manager bolgen@masstech.org	Mass Technology Collaborative	Providing \$1.7 million in a forgivable pre-development loan to the Town of Hull Municipal Light Plant (HMLP) to do preliminary environ. & engineer. studies for a four turbine wind farm approximately 1.5 miles from shore Completed business plan and providing \$150k funding for formation stage for a national Offshore Wind Collaborative, to execute the tech, environ, econ and policy agenda outlined in the Framework for Offshore Wind Energy in the United States	Hull submitted an Environmental Notification Form (ENF); Secretary issued Scope for a Draft Environmental Impact Report (DEIR). Technical analysis on-going. MA Energy and Environmental Affairs now an active participant (previous administration not supportive). 8 member self-selected steering committee (AWEA, Mass Audubon, CESA, Batelle, NOAA, MTC, EEA, MIT) to meet in March 2008 to draft a six-month launch strategy
	MTC, U Mass; Energy & Environmental Affairs; Economic Affairs	Responded to the NREL CRADA to construct a Blade Test Facility at the Massport Carport;	Proposal selected for development, along with Texas; design under way
Rhode Island	Office of Energy Resources (OER)	Results released from a 2006 Governor-commissioned wind siting study to assess the feasibility of meeting 15% of state's energy needs from wind. Conclusions included that in gross terms wind could provide 75% of need, much of it from offshore sites. ID'd 10 potential sites. Also suggested that RI would benefit from establishing a RI Power Authority. Initiated stakeholder process to review the 10 possible sites.	OER issued Offshore Wind Stakeholders Final Report in Feb 2008. Identified issues to be considered in siting and questions requiring analysis.

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		In January 2008 OER signed MOU with URI, providing \$200,000 to fund the RI Energy Partnership and the creation of a Center of Excellence in Research for Offshore Renewable Energy.	The center was approved and created in May 2008 and research and public outreach activities launched in Fall 2008.
		Issued an RFP seeking proposals from companies to <i>design, build, finance and operate a wind generation facility in the waters off [Rhode Island's] coast to supply not less than 15% of the energy consumed by RI's electricity customers (not less than 1.3 million MW-hrs./yr.)</i> The presumptive preferred site is identified in <i>RIWINDS, Phase I: Wind Energy Siting Study</i> , but other sites may be considered.	Seven proposals were submitted. On September 26, 2008 Governor Carcieri announced Deepwater Wind was chosen as the developer.
	Coastal Resources Management Council (CRMC)	Will define use zones for Rhode Island's offshore waters, including "wind energy zones," through a research and planning process that integrates the best available science and coastal/ocean management experience with open public input and involvement. In partnership with 60-member multi-disciplinary team from URI. \$1.6 million initial funding from the State Energy Office. The two-year commitment from OER is \$3.6 million.	Launched
New York	Long Island Power Authority	Pursued development of a 40-turbine wind farm off Jones beach. FPL was successful respondent to an RFP requesting a developer in 2004. LIPA conducted initial baseline assessment, identified development area, and intended to construct the cable.	Project tabled over concerns about escalating construction and materials costs.
		In September 2008, formed a working group with Con Edison to explore the feasibility of an up to 300 MW wind farm, possibly at a location 10 miles off the Rockaways in Queens NY.	Development of the project, which is 2X the size of the initial LIPA proposal will hinge on economic feasibility.
	NYSERDA	Funded studies to explore the feasibility of developing offshore wind in near shore Lake Erie; and consider jurisdictional issues.	In process

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	Governor's Office	Directed state agencies to work with Great Lakes Wind Collaborative to develop a framework and action plan for NYS Offshore Wind State agencies engaged in regulatory review of 10 MW wind farm in Gardiners Bay (Winergy).	In process
MID-ATLANTIC			
New Jersey	Department of Environmental Protection	Issued RFP for an 18 month, \$4.5 million Ocean/Wind Power Ecological Baseline Study. Study area is waters offshore New Jersey out 20 miles (approx. 100-ft. contour), excluding Delaware Bay and other specified areas. Fulfilling recommendation of Blue Ribbon Panel on offshore wind development, to assist in determining areas for development.	Award to GMI, Inc. studies, beginning January 2008, include acoustical, oceanographic, radar and thermal imaging.
	Board of Public Utilities	Issued Solicitation for Proposals to Develop Offshore Wind Renewable Energy, offering a \$19 million, 5-year production credit for construction and operation of an up-to 350 MW facility. Ten percent to be made available up front to support studies and permitting.	5 proposals submitted. Expect an award to one of the five applicants in October. 5 sites offshore New Jersey selected by MMS for wind assessment work under the Interim Rule.
Delaware Contact: Mark Finrock, Delmarva Power and Light 202-872-2680	Delmarva Power and Light	After a competitive bidding process, Delmarva was directed by consensus of the Delaware Public Services Commission, Office of Management and Budget, State Controller & Natural Resource/Enviro. Control Dept. to negotiate a long term power purchase agreement with Bluewater Wind to provide needed power supply in the state through construction of a 200 - 300 MW offshore wind farm.	The state recently announced the first ever offshore wind Power Purchase Agreement between Delmarva Power and Bluewater Wind for 200 MW of offshore wind, 12 miles off the coast of Delaware
	University of Delaware	Conducted an assessment of offshore wind resources from MA to N Carolina, keyed to technology-limiting factors and accounting for exclusion zones (wildlife, shipping lanes, etc.).	Published. Estimates an average 330-gigwatt output; suggests an integrated offshore grid to address fluctuations in output across a large region.
Maryland	Maryland Energy Administration	Issued informal expressions of interest to offshore wind developers	Ongoing

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Virginia	Virginia General Assembly	In 2006, established the Virginia Coastal Energy Research Consortium , through passage of the VA Energy Plan, "to serve as an interdisciplinary study, research and information resource for the Commonwealth on coastal energy issues." Board of Directors has 8 university members and 6 government and industry partners.	FY 08 appropriation of about \$750,000 for offshore wind, renewed for FY09. First year results to be published in October.
SOUTHEAST			
North Carolina	NC Wind Working Group	General outreach and education on wind issues; participated in joint DOE application for regional transmission studies re: offshore wind.	expansive shallow, state waters in NC, SC and GA offer significant potential opportunity, despite lesser wind speeds compared to NE
South Carolina Contact: South Carolina Energy Office (803) 737-8030.	Informal research-industry-developer-utility group	Monitoring 50-meter coastal anemometer towers; results will likely support further work offshore; applied to MMS for offshore 2 sites under the interim rule; Santee Cooper (public utility) has an offshore wind feasibility study underway, and several other physical and economic factors are being considered in partnership with several local universities	Draft feasibility report to be released shortly. Assessment site not selected in 1st MMS round; will resubmit.
Georgia	Georgia Wind Working Group	Promotes responsible development and use of wind power. Fifty members including utilities, wind developers, government, universities, and other stakeholders. Oversees a Georgia offshore-coastal wind committee.	Convened successful offshore wind roundtable in 2006, planner's workshop and public forum in 2007. Filed public comments on MMS proposed interim testing policy and leasing rule.
	<i>Southern Winds Project:</i> Georgia Tech Strategic Energy Institute/Southern Company	Conducted a 2-year feasibility study assessing all aspects of constructing and operating wind farm off the Georgia Coast. Identified promising sites based wind resources, geophysical characteristics, environmental considerations, competing usage, distance from shore and comparative costs (public acceptance v. cost of additional cabling)	Final report issued in 2007. Conclusion stated that the concept is feasible, but that regulatory issues, cost and insurability issues remain. Three offshore Georgia sites selected by MMS for offshore wind related assessment work under the interim rule. An interim lease was granted and Southern Company is proceeding with the process. The first stakeholder meeting involving state and local agencies, MMS, Southern Co. and the public is scheduled for November, 2008.
GULF COAST			
Texas	Texas General Lands Office	The GLO currently has five active leases being explored for wind generation, They conducted the first open bidding for leases in 2006	Resource assessment work in process

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	Lone Star Wind Alliance (Texas Lands Office; U Houston; others)	Responded to the NREL CRADA to construct a Blade Test Facility	Proposal selected for development, along with Massachusetts
GREAT LAKES			
	Great Lakes Wind Collaborative	Established in 2008 to build consensus, identify and address issues affecting the planning, development and operation of wind power facilities in the Great Lakes region. First year funding from Wind Powering America and a major wind company (\$100k total). GLWC has been formally adopted as an initiative of the Great Lakes Commission, which will serve as Secretariat, providing staff support. Membership includes 9 states/provinces; US and Canadian agencies, industry, academic, environmental and stakeholder interests.	GLWC established an offshore wind working group
Indiana	Department of Natural Resources	Responded to an email inquiry concerning the possibility of building an off-shore wind facility in Lake Michigan.	Recommended the developer go through a more formal early coordination process with IDNR.
Ohio	Cuyahoga County Regional Energy Development Task Force	Issued an RFQ for development of a 20 MW offshore wind demo project in Lake Erie near downtown Cleveland + feasibility study of establishing an R&D center for utility scale wind technology. As recommended in Feb 8, 2007 report Building a New Energy Future.	\$1,041,454 contract approved with JW Great Lakes Wind llc. Study to be completed in 2009.
	Office of Coastal Management (ODNR)	Drafting offshore regulations for submerged lands	In process
Michigan	State Wind Outreach Team (DOE sponsored)	Conducted a permitting dry-run on 2 hypothetical sites on Michigan's Great Lakes	

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Wisconsin Contacts: John Shenot - Policy Advisor, Public Service Commission of Wisconsin 608 267-3798 John.shenot@wisconsin.gov David Siebert – Director, Wisconsin Department of Natural Resources 608 264-6048 David.siebert@wisconsin.gov	PSCW Office of Energy and Environmental Analysis, WDNR	Governor’s Global Warming Task Force Recommended a study of the potential for offshore wind development. In response, the Public Service Commission, with cooperation from the State DNR, has convened a high-level panel (Wind on Water – W.O.W) to consider the full range of legal/regulatory, environmental, community, technical and economic issues related to developing offshore wind.	Commission will report to the Governor in late 2008.
WEST COAST			
California	Stanford University, Civil and Environmental Engineering Department	Conducted a study of CA offshore wind energy potential . Concluded that despite steep bathymetry, significant development potential exists, particularly with new floating platform designs currently under development. Identified significant potential at 200 meter depths; assumes a 15-20 yr. time horizon for development	Published.