Maine Offshore Ocean Energy Demonstration Siting Initiative





Robert G. Marvinney
Director, Maine Geological Survey
Department of Conservation

Purpose and Timeline

- Legislation
- Siting Requirements
- DOC and SPO: Conduct Collaborative Process
- Scoping Meetings, Public Meeting
- December 15 Deadline

STILLE BEQUIREMENTS

DEMONSTRATION SITE



Photo courtesy of Statoil Hydro

COMMERCIAL WIND FARM



OFFSHORE WIND

- Maine's Niche: Aided By Geography
 - ➤ Deep Water
 - Proximity to the Gulf of Maine Superb Wind Resource
 - ➤ Deepwater Ports and Infrastructure: Eastport, Searsport, Portland, etc
- Existing Industrial Partners
- Ideal Research Partner: University of Maine

LONG TERM OPPORTUNITY

Large Projects Offshore in the Gulf (>20 miles)



Photo Courtesy of Gizmag.com



Photo Courtesy of Civil.usyd.edu

Maine People Research

LONG TERM OPPORTUNITIES

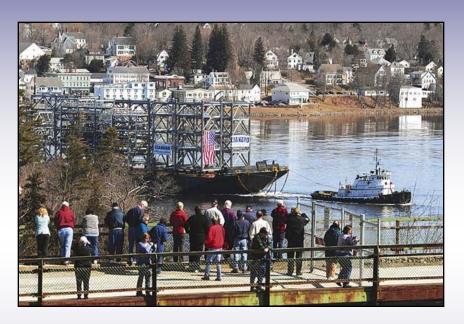


Photo Courtesy of Bangor Daily News



Photo Courtesy of New York Times

Maine People Build Platforms, Towers, Blades

LONG TERM OPPORTUNITIES



Courtesy of the Boston.com



Photo Courtesy of Navytime.com

Maine People Build Ships

LONG TERM OPPORTUNITIES



Photo Courtesy of Videopro



Photo Courtesy of MaineToday

Maine People Install and Service

PLANNIG AREAS

Within Maine's Coastal Waters

At least 200 Feet Deep (30 Fathoms)

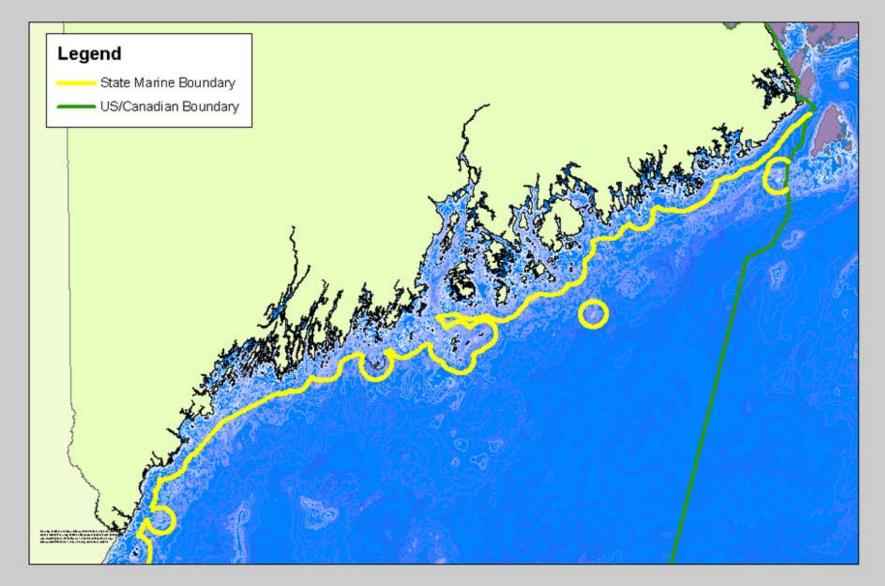
Average Annual Wind Speeds of >17 MPH

No Obstructions



Maine Marine Boundaries

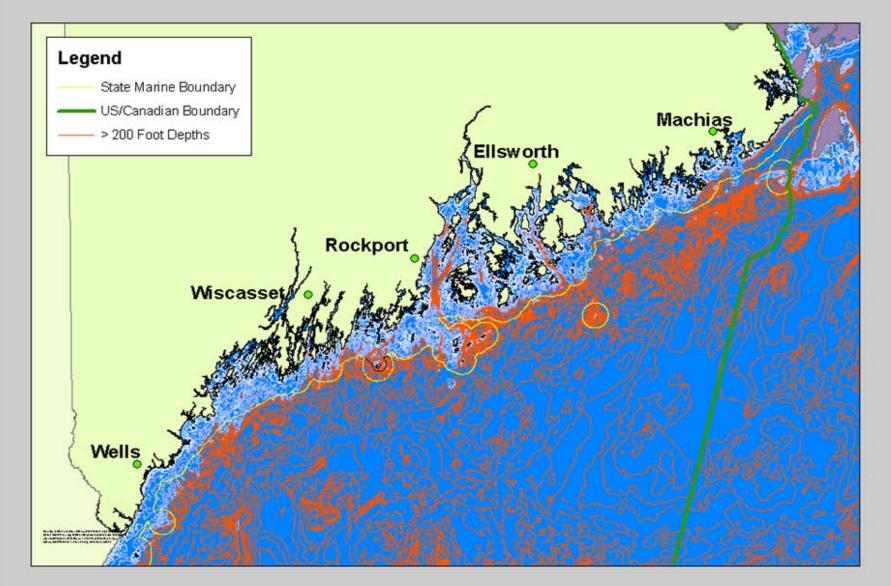






DEEP WATER (>200 FEET) DEPTHS IN THE GULF OF MAINE

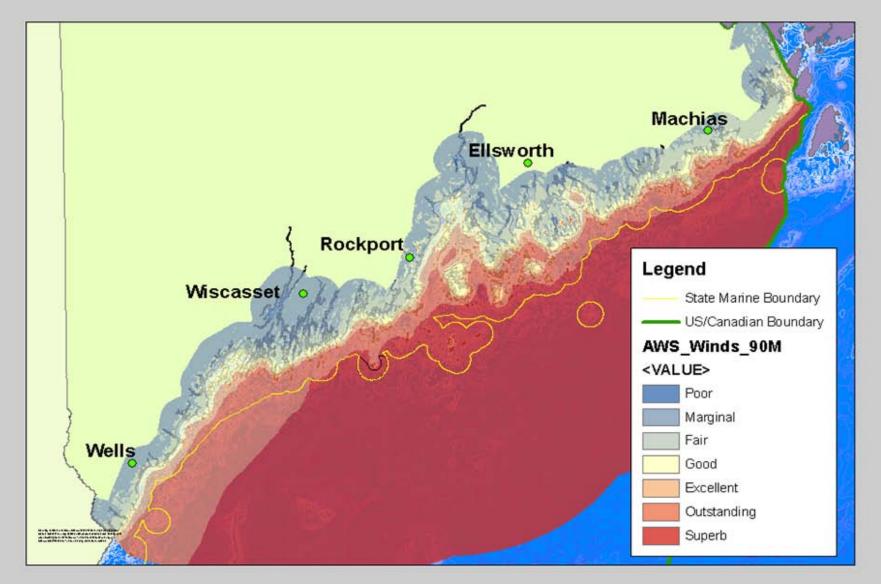






WIND RESOURCES IN THE GULF OF MAINE (NREL ESTIMATES)

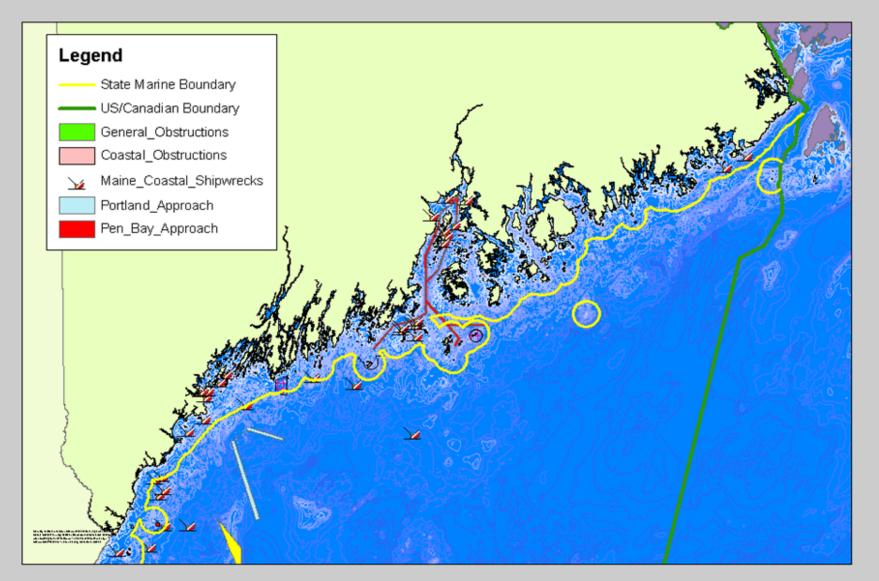




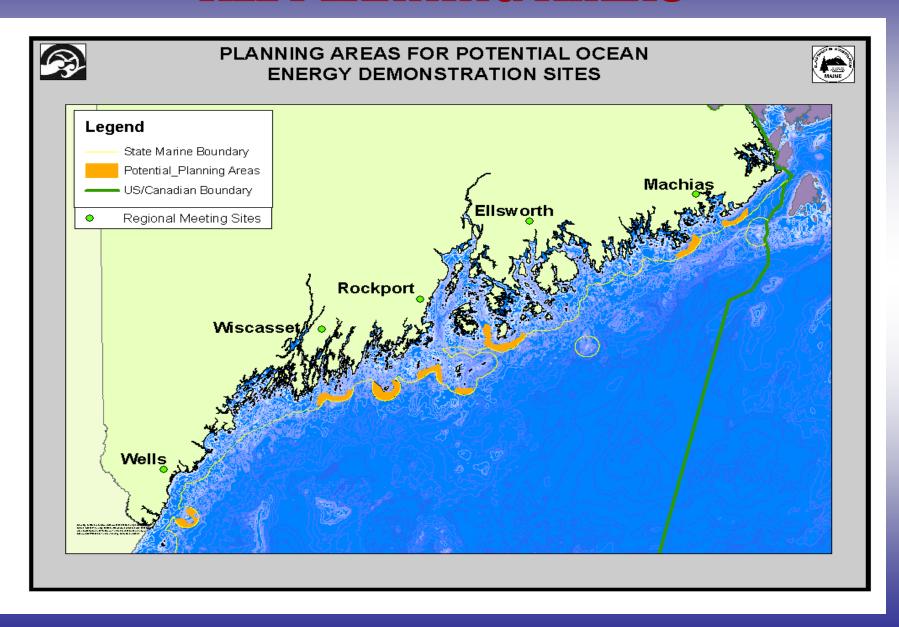


Maine Coastal Marine Obstructions

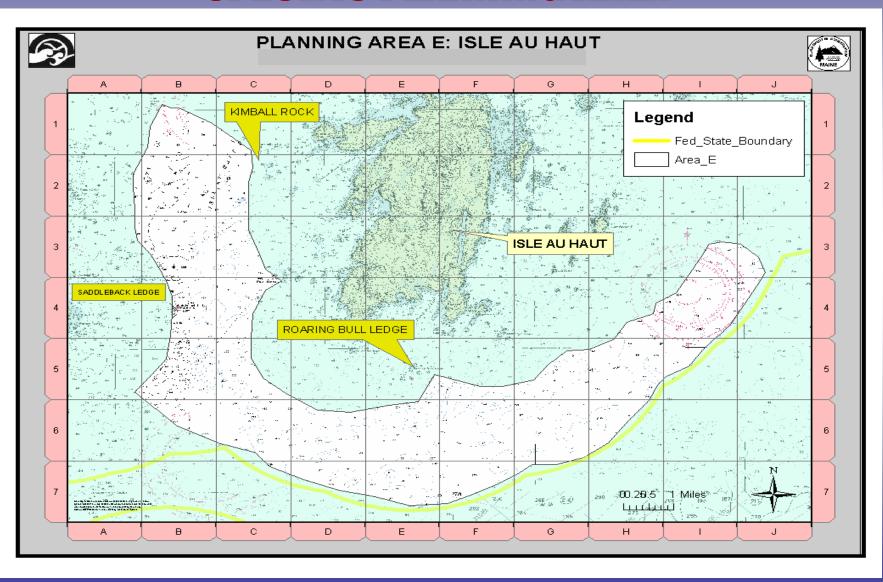




ALL PLANNING AREAS



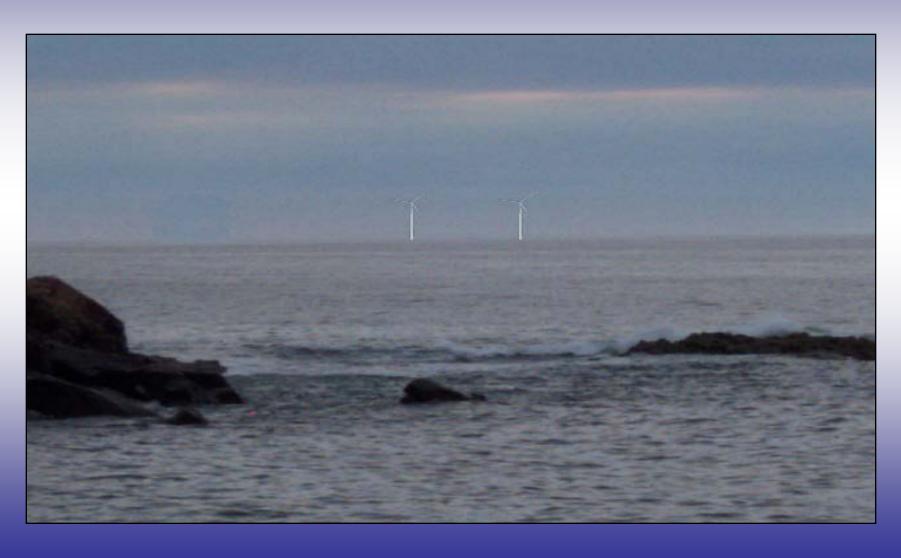
SPECIFIC PLANNING AREA



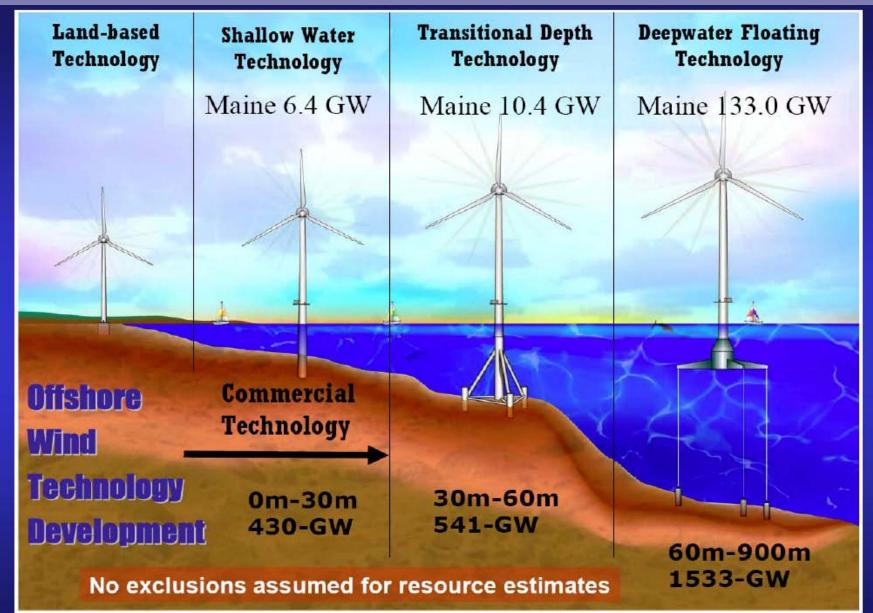
DEMONSTRATION SITES

- Initial Mapping: 7 Large "Possible" Areas
- Further Siting Considerations:
 - Impacts on protected natural resources and scenic resources
 - Impacts on marine mammals
 - Impacts on commercial fishing and navigation
 - Impacts on recreation, existing public access, and other existing uses
 - Proximity to deep water port facilities, transportation and transmission infrastructure, and existing environmental monitoring devices
 - Geology of the ocean bottom

One Developer, Two Turbines, Three Miles From Shore



WIND TURBINE EVOLUTION



SUMMERY

- State & National Energy Goals
- Opportunity Now, Jobs To Maine People
- Feedback, Collaboration, Next Steps



Photo Courtesy of Blue H



Photo Courtesy of Principle Power

NEW STEPS

- September Public Meetings continue
- Mid- October Draft Sites selected
- Oct-Nov Meet with communities to further explore specific draft sites
- Mid-November Public comment period closes
- December 15 Final Sites selected

Thank You

Questionsp

Robert.G.Marvinney@Maine.gov

www.maine.gov/spo/specialprojects/OETF/index.htm

http://www.maine.gov/doc/initiatives/oceanenergy/oceanenergy.shtml