

Great Lakes Wind Collaborative Update

Michigan Wind Working Group
MARCH 29, 2011

Outline

- Overview of GLC-GLWC (for any newbies)
- GLWC Recent Activities and Products
- Current Projects
- State Updates
 - Legislative updates and offshore projects around the basin

Great Lakes Commission and Great Lakes Wind Collaborative Service Area

From West to
East:

- Minnesota
- Wisconsin
- Illinois
- Indiana
- Michigan
- Ohio
- Pennsylvania
- New York
- Ontario
- Quebec

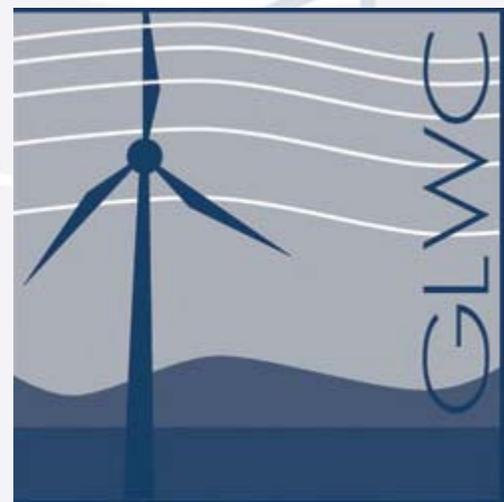


Overview of the Great Lakes Commission

- Binational agency comprised of (8) Great Lakes state members and (2) provincial associate members
- Established in 1955 via U.S. state and federal law - Great Lakes Basin Compact
- Prompted in part by impending opening of St. Lawrence Seaway
- Established “to promote the orderly, integrated and comprehensive development, use and conservation of the water resources of the Great Lakes basin.”

Great Lakes Wind Collaborative

- Multi-sector coalition of wind energy stakeholders working to facilitate the sustainable development of wind power in the binational Great Lakes region.
- Formed in late 2007 in response to stakeholder desire to have a regional voice on wind energy issues. Staffed by the GLC.



www.glc.org/energy/wind

Great Lakes Wind Collaborative



Stakeholder Input

- What are Great Lakes windpower interests of yours?
- You can join – it's free!!! (see GLWC web page or email me)
- Become as involved as you wish – join a workgroup



The background features a stylized illustration of a wind turbine on the left, with three blades extending outwards. To the right of the turbine are several horizontal, wavy lines representing wind. On the far right, the letters 'GLWC' are arranged vertically in a large, light blue, sans-serif font. The entire scene is set against a light blue background with a darker blue base at the bottom.

GLWC Recent Activities

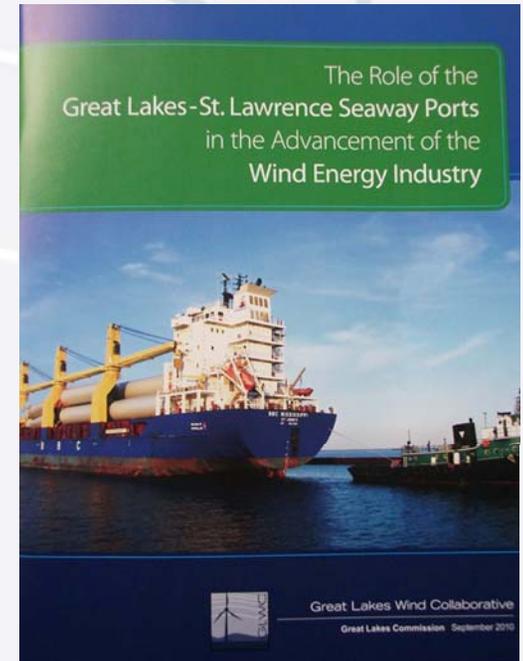
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GLWC Port Survey & Report

- Response to requests from members of GLWC Offshore Wind Workgroup who wanted “port details”
 - Interested in learning more about the underlying infrastructure of the transportation sector
 - What are the ports’ capacities to handle wind turbine cargo?
 - Provided in Appendix of Report
 - Tool for developers, transportation industry, and economic development professionals to plan projects and gear up for impact of the wind industry in the coming years
 - Report: *The Role of the Great Lakes-St. Lawrence Seaway Ports in the Advancement of the Wind Energy Industry*

Key Take Home Points

- A number of GLSLS ports have greatly benefited from a diversification of their cargo base to include wind energy cargo, and many more have expressed a high interest in increasing their role in the wind energy industry.
- The GLSLS ports have played and will continue to play a critical role in sustaining a high level of economic activity in the Great Lakes region and in supporting the successful expansion of the wind energy industry.



Available online at <http://www.glc.org/energy/wind/publications.html>

CEQ Offshore Workshop

- Held workshop of key stakeholders – Oct. 26, 2010 in Chicago to discuss OSW permitting in Great Lakes
- Objectives
 - *Learn more about and clarify the role of various federal agencies* in the siting of offshore wind power in the Great Lakes
 - *Clarify the process* by which developers, states and other stakeholders should and can engage federal and state regulators in offshore wind development in the Great Lakes
 - *Identify one or more institutional mechanisms* that can result in greater clarity and certainty regarding federal (and if possible, state) decision-making with regard to offshore wind development in the Great Lakes

Outcome: Draft MOU

Goals of MOU:

- *Improve U.S. federal and state coordination* for the development of offshore wind energy in the Great Lakes
- *Identify processes and timelines* to develop a comprehensive, consistent, and timely permitting and siting process for offshore wind energy in the Great Lakes
- *Ensure the institutional agility of MOU signatories* to apply lessons learned throughout MOU implementation to subsequent offshore wind development as part of an adaptive management regime

Current MOU Follow-up

- DOE vetting MOU through federal agencies for sign-on
- GLWC-GLC vetting through state agencies
 - *GLC and GLWC staff available to conduct briefings for state agencies to help with deliberations of signing on*
- Signatories: All federal agencies involved and the Governors of the 8 Great Lakes states

State of Science Workshop

- Held March 9-10, Indianapolis
- Purpose: To enhance the understanding of wind development effects on the biota and ecosystems of the Great Lakes region
- Objectives:
 - To provide a forum to share information on the state of research on ecological effects of wind.
 - Identify future research needs
 - To develop regional project ideas and facilitate partnerships in pursuing research priorities.

SOS Follow-up

- Post-workshop website with PDFs of presentations:
glc.org/energy/wind/sosworkshop/index.html
- Coming Soon: Proceedings document
 - Summarizes workshop findings
 - Identifies Great Lakes wind-wildlife regional research needs.

RGOS Webinar

- February 8, 2011: Midwest ISO – w/ State Regulators and Industry Stakeholders
- Implementing RPS, and meeting the lowest delivered dollar per MWh cost, requires a reliability and economics based regional transmission solution.
- Study findings: Identification of three regional transmission scenarios that enable the renewable mandates and goals of the states within the Midwest ISO footprint.
- Webinar Presentation online at <http://wiki.glin.net/display/GLWCC/Regional+Transmission>

Transmission Cost Allocation Webinar

- **October 25, 2011** – Representatives from the major transmission organizations in the Great Lakes region
 - MISO, NYISO, PJM, Hydro One (Ontario)
- Overviews of their respective cost allocation processes and plans for future changes.
 - As it pertains to the connection of wind energy facilities to the grid.
- Webinar Presentation online at <http://wiki.glin.net/display/GLWCC/Regional+Transmission>

Current Projects

Best Practices to Accelerate Wind Power in the Great Lakes Region and Beyond (DOE Grant)

- Examined the policies and practices that are working best within and beyond the region
- Status: Developing factsheets that will contribute to an online toolbox
- Summer: Conduct briefings to Great Lakes decision makers
 - Great Lakes Legislative Caucus
 - Midwestern Governors Association
 - Great Lakes and St. Lawrence Cities Initiative

Current Projects

An Integrated Assessment Approach for Siting Wind Turbines in Coastal Counties in Michigan (Sea Grant)

- Led by MSU Land Policy Institute
- Assist communities in coastal counties with assessing multiple factors of wind development
- Developing tools that communities can use in making decisions
- Status: Developing factsheets for outreach:
 - Wind Energy Perceptions
 - Regulation
 - Trust
 - Policy Priorities
 - Environmental/Political Views
 - Community Views

Current Projects

- *Developing a Model for Great Lakes Offshore Wind in the Upper Peninsula of Michigan*
- Led by Superior Watershed Partnership via a grant from MPSC
- Combining GLOW Council recommendations and two prioritized GLOW Council areas (Delta and Mackinac) to:
 - Demonstrate how to engage the public
 - Identify optimal offshore sites
 - Identify the wind energy potential for those sites
 - Identify necessary regulatory approvals
 - Identify potential funders and developers to advance offshore wind technology in the Upper Peninsula of Michigan.

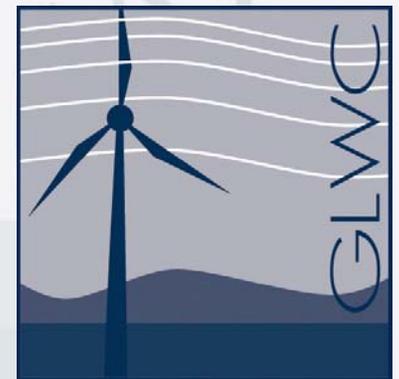
SWP Project Highlights to Date

- Tetra Tech submitted to SWP a 90-page report entitled: **Site Constraint Analyses, Environmental Studies and Preliminary Permitting Analyses**
 - Concludes that there are no fatal flaws to development of either the Delta or Mackinac WRAs but further avian, bat and interconnection studies are suggested.
 - Photo simulations indicate no significant adverse visual impacts at distances of 7-15 miles; additional photo-simulations are warranted for Beaver and Washington Islands
- **Great Lakes Commission**
 - Compiled results from 1000 community surveys (300 residences in Mackinac County and 700 in Delta County). Results largely positive.
 - Planning spring/summer 2011 public engagement sessions

Coming This Fall

Great Lakes Wind Collaborative 4th Annual Meeting

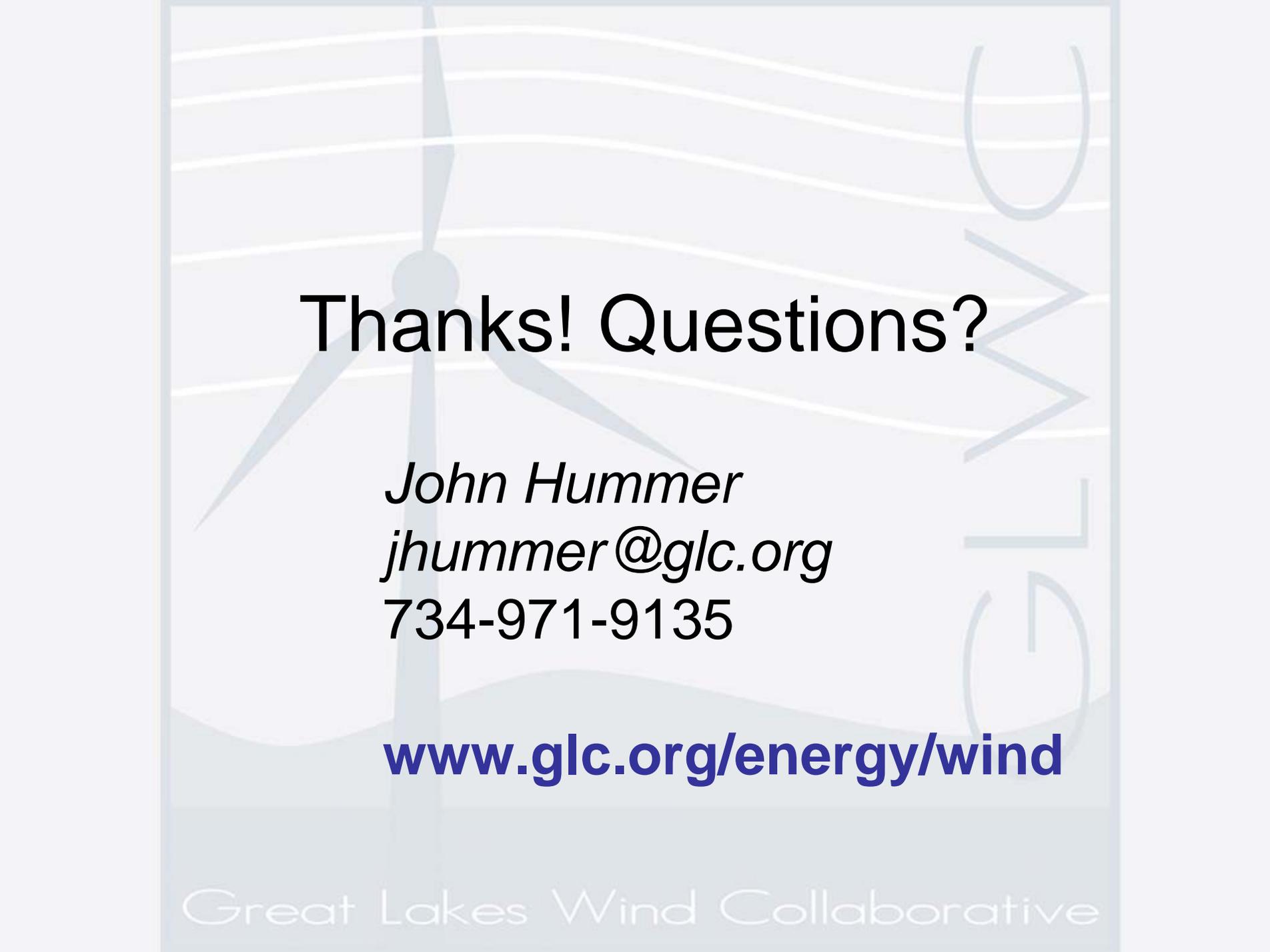
- Location and Date TBD
- Possibly held in conjunction with NOAA Coastal and Marine Spatial Planning Workshop for the the Great Lakes
- Welcome input or you can join our Planning Committee





**“With public sentiment nothing can fail;
without it, nothing can succeed.”**

- A. Lincoln



Thanks! Questions?

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www.glc.org/energy/wind

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