

NextEra Energy Canada Jericho Wind Energy Centre

Community Liaison Committee (CLC): Meeting #1

September 9th, 2014 6:00 p.m. to 8:00 p.m.

The Legacy Recreation Centre

16 Allen Street, Thedford

September 9, 2014



Introductions

CLC Members:

- Carol Clay
- Jason Cole
- John Couwenberg
- Dean Jacobs
- Mary Lynn Metras
- John Moons
- Marina Plain
- Jamie Tabor
- Eddy Van Engelen

CLC Coordinators and Facilitators (AECOM):

- Avril Fiskén
- Adam Wright

NextEra Energy Canada:

- Ben Greenhouse, Director, Development
- Cassandra Bowers, Project Manager, Development
- Jeff Damen, Construction
- Nancy O'Neill, Environmental Services Project Manager
- Doug McIntosh, Regional Operations Manager

Agenda

1. Introductions
2. Review purpose, objectives and conduct for the CLC
3. Present Jericho Wind Energy Centre and update on project status
4. Discuss construction process and plans
5. Information requests and items to be discussed at future CLC meetings
6. Depositions, if any requests received
7. Plus/Delta

Purpose of the Community Liaison Committee

The Ministry of the Environment (MOE) issued a Renewable Energy Approval (REA) in April 2014 for the Jericho Wind Energy Centre. One condition is that NextEra make reasonable efforts to establish a Community Liaison Committee (CLC) and hold at least 2 meetings per year over the next two years.

The purpose of the CLC is to:

- Act as a liaison, facilitating two way communication between NextEra Energy Canada and members of the public with respect to issues related to: construction, installation, use, operation, maintenance, and retirement of the Facility.
- Provide a forum for NextEra Energy Canada to provide regular updates on the project and to discuss issues or concerns relating to the construction, installation, use, operation, maintenance and retirement of the Facility with members of the public; and
- Ensure that any issues or concerns resulting from the construction, installation, use, operation, maintenance and retirement of the Facility are discussed and communicated to NextEra Energy Canada.

CLC Objectives

- Increase the public's knowledge base of wind energy by providing accurate and up-to-date information on the:
 - Construction
 - Installation
 - Use
 - Operation
 - Maintenance, and
 - Retirement of the Facility

Note: The CLC will not re-visit matters previously raised during the proposal/planning stage for the Facility (e.g. location of a Wind Centre, the *Green Energy Act*, the MOE's approval process, etc.).

- Help NextEra Energy Canada better understand the public's concerns and perception of the risks and effects of wind energy and of the Facility; and
- Engage in meaningful and open dialogue in order to identify opportunities for improvements and mitigation and work towards resolving or minimizing conflicts, as well as gain support/acceptance for the Facility.

What is expected of CLC Members

Be Present. Attendance is critical to an effective Committee. Feel free to send a delegate if you can't attend.

- If the first two meetings are missed, the Chair may require the member to forfeit their position.

Be Prepared. Review any materials, like minutes, sent in advance of the meeting.

Be Involved.

- Participate in discussions, working within the terms of membership agreed to in the CLC Charter.
- Bring forward areas of concern or interest pertaining to the construction, operation and retirement of the facility.
- Suggest ways to improve plans and provide constructive feedback on mitigation strategies suggested by NextEra and its staff and specialists.
- Participate in the evaluation of requests for public depositions

Be Respectful. Listen to and consider information provided by representatives of NextEra Energy Canada, and the opinions and suggestions of other CLC members.

Share. Help NextEra Energy Canada keep people informed about the Wind Energy Centre by sharing your knowledge and perspectives through your existing community networks.

What is expected NextEra representatives

Be Present. Attendance is critical to an effective Committee.

Be Prepared. Review any materials, like minutes, sent in advance of the meeting.

Be Involved.

- Provide the CLC (and the general public) with accurate and up-to-date information on the construction, installation, use, operation, maintenance and retirement of the Facility
- Participate in discussions and provide answers and additional follow-up information
- Through AECOM, provide administrative support for CLC members (e.g., coordination of meetings, photocopying of materials.)

Be Respectful.

- Listen to and consider the opinions, concerns and suggestions of the CLC members and depositions made by members of the general public;
- Work within the Charter for the CLC;

Share. Post Community Liaison Committee materials to the project website, including Agendas, Minutes and other appropriate information

Role of AECOM

As Meeting Coordinators

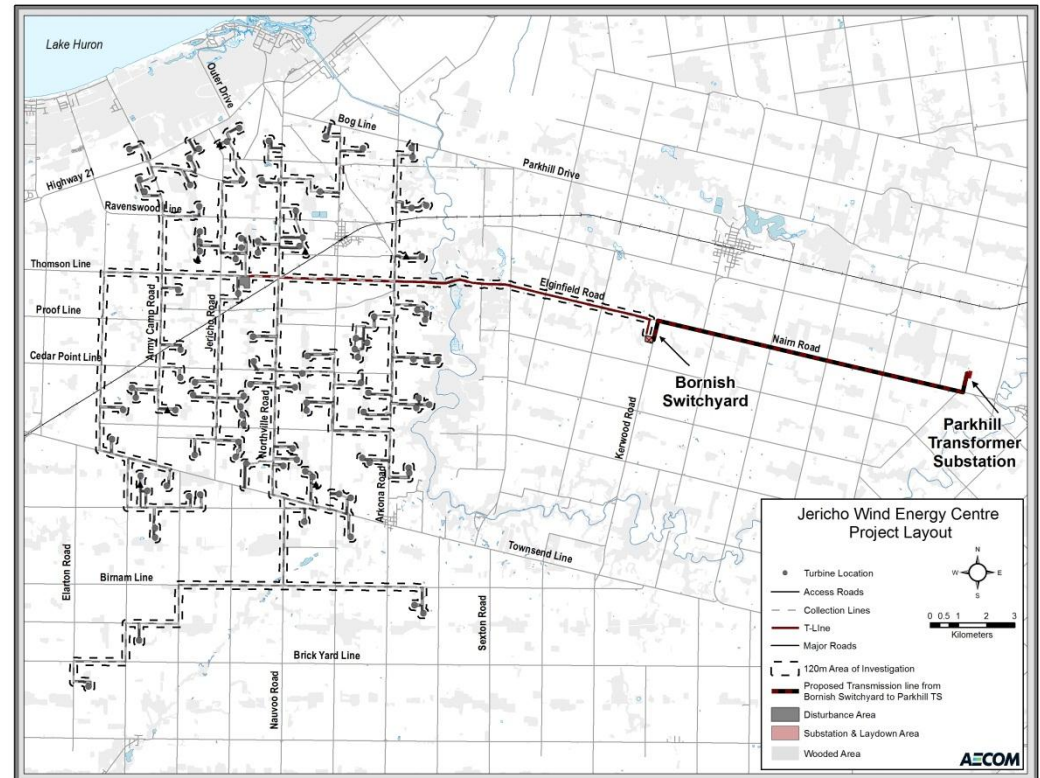
- Organize all CLC meetings, including setting Agendas and distribution of meeting information and minutes
- Liaise with NextEra Energy Canada to collect and distribute additional information requested by the CLC members
- Track CLC and public inquiries regarding the Facility to ensure the following meeting Agendas address relevant inquiries (including public depositions)
- Coordinate the posting of any information prepared by or presented to the CLC on NextEra's website

As Meeting Facilitators

- Ensure CLC members are provided with information and technical support to allow them to contribute to CLC discussions
- Moderate the meetings to meet the agreed upon Agenda and time schedule
- Encourage constructive and thorough discussion
- Ensure members respect other members and participant's opinions and questions, and that no one interrupts or dominates the discussion
- As Chair, AECOM has the right to excuse or replace any member of the CLC or public observer who is interfering with or disrupting with the CLC meetings
- Oversee the review and selection of public depositions, with input from CLC members

Overview of the Jericho Wind Energy Centre

- The Class 4 Wind Facility is being constructed in the Municipality of Lambton Shores and the Township of Warwick, in Lambton County, Ontario and in the Municipality of North Middlesex, in Middlesex County.
- The ninety-two turbines, each with 80 metre towers and three blades up to 50.5 metres in length, will have a generating capacity of 149-megawatts, capable of generating electricity to power nearly 37,500 homes.
- The project consists of turbines, overhead and underground electrical lines, two met towers, electrical substation, transformer substation (to connect to the Hydro One transmission system) required roads and the construction laydown area.
- The Facility, with the exception of some electrical lines, is being built on privately owned land, which can remain in agricultural use.



Project Activities and Status

1. Planning and Resource Assessments

- **Surveying** ongoing – this will happen over the life of the construction project to support various needs and ultimately wrap up after construction with the production of as-built surveys
- **Geotechnical Studies and Sampling** complete however there may be more needed as construction continues
- **Archaeological Assessments** All initial fieldwork to start construction is complete; remaining work

2. Permitting and Clearances

- **Awarded Feed-in-Tariff contract by the Ontario Power Authority** April 2011
- **Renewable Energy Approval (REA)** issued April 2014
- **Ausable Bayfield Conservation Authority** received
- **St. Clair Region Conservation Authority** received
- **Municipality of Lambton Shores (building permits)** received, one remaining (under review)
- **Municipality of Warwick (building permits)** received
- **Leave to Construct** Received May 6, 2014

Project Activities and Status

3. Detailed Design

- Road Design Complete
- Turbine Foundations Complete
- Substation Complete

4. Construction

Began May 2014

5. Operations

anticipated to commence 4Q 2014

6. Decommissioning

to happen at the end of useful life of the project (e.g. after 25 to 30 years of operations)

Construction Process and Anticipated Timing

	2014/2015											
	Complete	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ja	Feb
Land Clearing												
Access Roads & Paths (temporary and permanent)												
Construction Laydown Area												
Turbine Site and Crane Pad Construction												
Turbine Foundations												
Wind Turbine Assembly and Installation												
Underground Electrical Cables												
Electrical Substation												
Above-ground Electrical Transmission Lines												
Meteorological Towers												
Clean up and Reclamation Following Construction												
Repairs to Municipal or Provincial Roads												
Turbine Commissioning (testing and inspections)												

CLC Meeting #1 – Local Labour

Construction Stats

- General Contractor is Borea Construction Canada
- Many **Southwestern Ontario Companies** used (subcontractors and suppliers) on the Jericho project.
- There is at least **\$40M** in contracts with subcontractors and suppliers in the southwestern Ontario region.
- Peak volume of individuals on site including subcontractors is approximately 200. Currently, we are at peak volume with about 200 staff members on site.
- Indirect economic benefits have not been measured, but local hotels, restaurants, home improvement stores, gas stations, machine shops, pubs and grocery stores have seen an increase in business since the start of the project.

Projected Economic Impact

Construction Jobs:	200
Full Time Operations Jobs:	8 - 10
Capital Expenditures	Over \$400 Million
Corporate Income Tax	Over \$200 Million*
Property Taxes:	About \$20 Million*
Landowner Payments:	About \$30 Million*

*Estimated over first 20 years of the project.



Construction Progress Images



Operations

- The operation phase will be approximately 25 years and the operations building in North Middlesex will require full time staff (i.e., site supervisor and wind technicians).
- Turbines will require scheduled maintenance (i.e., oil change, gearbox cleaning and lubrication, replacement of worn parts). Routine preventative maintenance activities will be scheduled as required, in accordance with manufacturer requirements.
- Spill prevention best practices utilized during the Construction Phase will also be implemented during operational maintenance.
- If unscheduled maintenance of a turbine is required (i.e. component failure), then the turbine will be taken out of service until the repair is complete. Larger trucks and cranes may be required periodically for larger repairs, but this is expected to occur infrequently.
- To monitor subsystems within each turbine and the local wind conditions, a comprehensive control system is installed and networked to the local operator and to NextEra's central operations centre (staff on-site 24/7). The operations building will be notified if an event occurs outside a turbine's normal operating range, and the turbine will be shut down. Turbines can be controlled remotely from the central operations centre.
- Operation decisions based on meteorological data include turbine shut down under icy or extreme weather, and cut-in and cut-out wind speed.

NOTE: Meeting #2 will get into more detail on operations.

Construction and Operations – Local Concerns

- **Turbine Fire:** Fire prevention is a key element in wind turbine design with fire prevention systems and other controls. In the unlikely event that a fire should occur, the operator's instruction to plant staff and to local fire fighters is to establish a safety exclusion zone around the structure to provide protection to the plant staff, landowner and the public. The operator will work with local fire fighters on fire protection procedures and protocols and these will be communicated with the local community.
- **Complaint Resolution Process:** The Ministry of the Environment has approved the process whereby Jericho Wind will address and work towards resolving any and all complaints that are received from the public. Should any complaints arise from the construction, operations, and decommissioning phases, a Project rep will contact the complainant within 24 hours to understand and seek a resolution. The project rep will notify the MOE district office of the complaint and prep/file an initial Complaint Record.

Additional information about this process can be found in Design and Operations Report on the Project website:

http://www.nexteraenergycanada.com/pdf/jericho/FinalReports/DO_Rpt.pdf

Additional Items for Discussion

- Update on the Environmental Review Tribunal
- How will residents and landowners' concerns be addressed during construction?
- Does NextEra foresee any future/additional land requirements?
- Potential for community funding/community improvements?
- More

Tentative Items for Discussion at Future CLC Meetings

CLC Meeting #2

- Update on Project Construction and Installation
- Operations and Maintenance
- Other

CLC Meeting #3

- Post-Construction Activities (e.g., reclamation or required repairs)
- Update on Operations and Maintenance
- Monitoring
- Mitigation Measures
- Provisions for Decommissioning
- Other

CLC Meeting #4

- Update on Operations and Maintenance
- Monitoring
- Mitigation Measures
- Other

- Archaeological Reports
- Community Liaison Committee Materials
- Community Newsletter
- Construction Plan Report
- Consultation Reports, Information Packages and Other Communication
- Decommissioning Plan Report
- Design and Operations Report
- Heritage Assessment Report
- Noise Study Report
- Ontario Energy Board - Documents
- Project Description Report
- Project Modifications
- Renewable Energy Approval documents
- Shadow Flicker Report
- Turbine Visualization Images
- Water Assessment & Water Body Report
- Wind Turbine Specification Report

Depositions from Members of the Public

- The CLC meetings are open to the general public for observation.
- Notices of upcoming meetings will be posted on NextEra's website (www.NextEraEnergyCanada.com). AECOM will also publish Notices in the local newspapers.
- Brief depositions (up to 3 per meeting, at a maximum of 5 minutes each) may be made by members of the general public, providing the depositions pertain to items on the meeting agenda (i.e., the construction, installation, use, operation, maintenance and retirement of the Facility).
- Depositions will be selected at the discretion of the CLC Facilitator and in consultation with the CLC members and NextEra.
- To be considered for a public deposition, a request along with the written deposition must be submitted to AECOM at least one week in advance of the CLC meeting:

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