

## Appendix A4. First Public Meeting – Township of Warwick





**NOTICE OF PUBLIC MEETING**  
**To be held by Jericho Wind, Inc., regarding a**  
**Proposal to Engage in a Renewable Energy Project**

**Project Name:** Jericho Wind Energy Centre

**Project Location:** the Municipality of Lambton Shores and the Township of Warwick, Lambton County and the Municipality of North Middlesex, Middlesex County, Ontario

**Dated at Lambton and Middlesex Counties this the 13 of June 2012**

Jericho Wind, Inc., is planning to engage in a renewable energy project in respect of which the issuance of a renewable energy approval is required. The proposal to engage in the project and the project itself is subject to the provisions of the *Environmental Protection Act* (ACT) Part V.0.1 and Ontario Regulation 359/09 (Regulation). This notice must be distributed in accordance with section 15 of the Regulation prior to an application being submitted and assessed for completeness by the Ministry of the Environment.

**Meeting Location:**

**DATE:** July 17, 2012

**TIME:** 5:00 p.m. to 8:00 p.m.

**PLACE:** Centennial Hall – 101 Centennial Avenue, Watford, Ontario

*Please note that the meeting will be in an Open House format allowing attendees to visit any time during the event.*

**Project Description:** Pursuant to the Act and Regulation, the facility, in respect of which this project is to be engaged in, is a Class 4 Wind Facility. If approved, this facility would have a total maximum name plate capacity of 150-megawatts.

**Documents for Public Inspection:** The Draft Project Description Report titled "Project Description Report – Jericho Wind Energy Centre" describes the project as consisting of approximately 92 wind turbines, turbine access roads, step-up transformers, an operations building, meteorological tower(s), construction staging areas and underground electrical collector lines in the Wind Energy Centre Study Area and an overhead 115 kV transmission line from a proposed Jericho transformer substation to the proposed Bornish Switchyard and continuing to the proposed Parkhill Transformer Substation in the Transmission Line Study Area.

A written copy of the Draft Project Description Report will be made available for public inspection on June 15, 2012, at [www.NextEraEnergyCanada.com](http://www.NextEraEnergyCanada.com) and the Municipality of Lambton Shores, Township of Warwick, Lambton County, Municipality of North Middlesex and Middlesex County municipal offices.

Municipality of Lambton Shores  
7883 Amtelecom Parkway, Forest, ON

Middlesex County  
399 Ridout Street North, London, ON

Township of Warwick  
6332 Nauvoo Road, Watford, ON

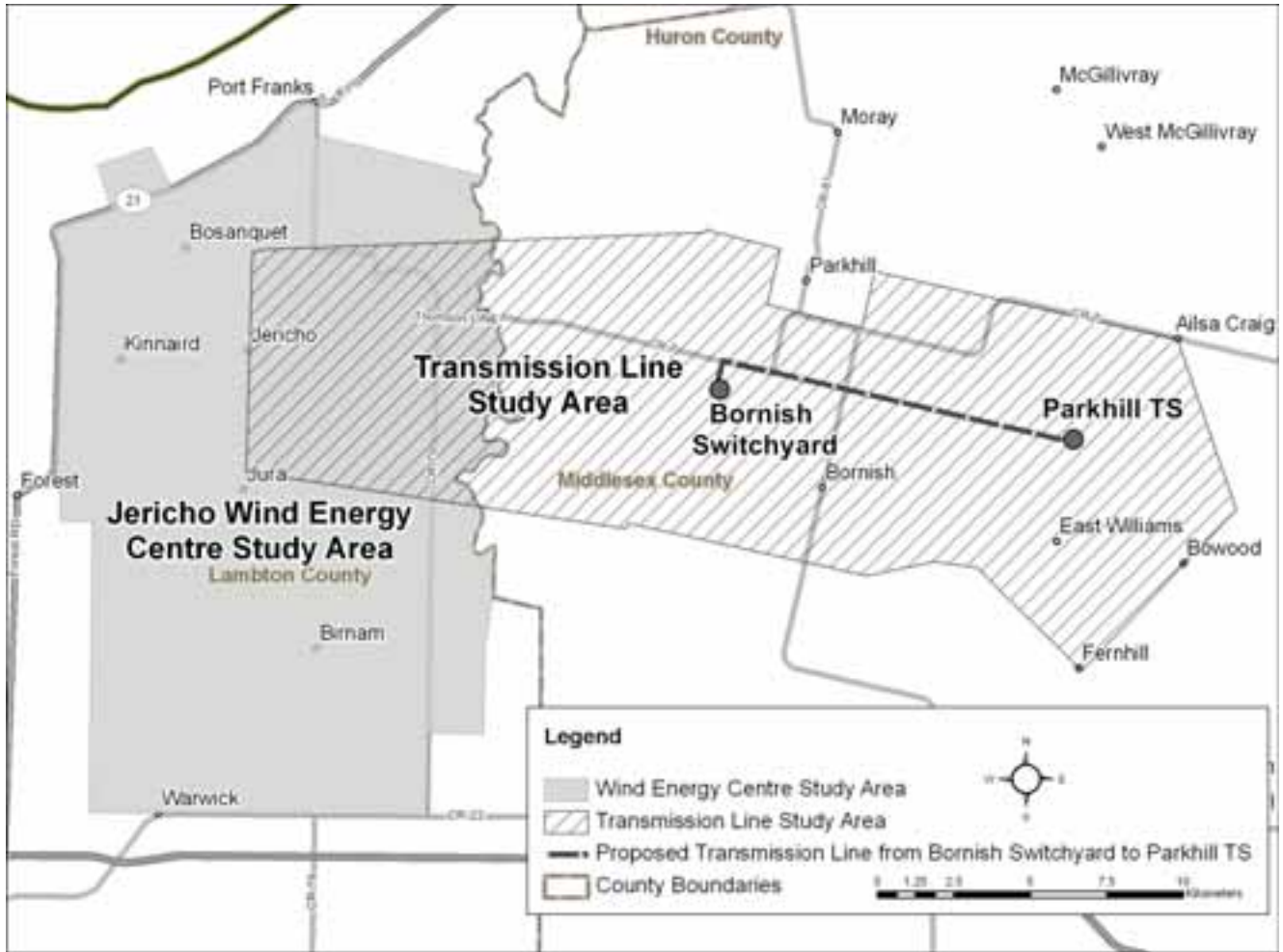
Municipality of North Middlesex  
229 Parkhill Main Street, Parkhill, ON

Lambton County  
789 Broadway Street, Wyoming, ON

**Project Contact and Information:** To learn more about the project proposal, public meetings, or to communicate concerns please contact:

Derek Dudek  
Community Relations Consultant  
NextEra Energy Canada, ULC  
5500 North Service Road, Suite 205  
Burlington, ON, L7L 6W6  
Phone: 1-877-257-7330  
Email: [EastDurham.Wind@nexteraenergy.com](mailto:EastDurham.Wind@nexteraenergy.com)  
Website: [www.NextEraEnergyCanada.com](http://www.NextEraEnergyCanada.com)

# Project and Transmission Study Area Map



# Welcome!

NextEra Energy Canada welcomes you to tonight's event.

We are here to:

- ✦ Describe the Proposed Jericho Wind Energy Centre
- ✦ Provide you with information on the Renewable Energy Approvals process
- ✦ Answer your questions
- ✦ Receive your comments



# WIND ENERGY CENTRE - OPEN HOUSE

## A Leader in Clean Energy

NextEra Energy Canada is an indirect, wholly-owned subsidiary of NextEra Energy Resources. NextEra Energy Resources, LLC is the largest generator of wind energy in North America.

## NextEra Energy Canada

NextEra Energy Canada is a leading renewable energy developer in Canada focused on developing electricity derived from clean, renewable sources. Our Canadian operations are headquartered in Burlington, Ontario. We are the owner and operator of four wind energy projects and two solar energy projects in the following provinces:

- ✦ Quebec: Mount Copper and Mount Miller Wind Energy Centres
- ✦ Nova Scotia: Pubnico Point Wind Energy Centre
- ✦ Alberta: Ghost Pine Wind Energy Centre
- ✦ Ontario: Sombra and Moore Solar Energy Centres

NextEra Energy Canada is seeking approval for six wind energy centres in Ontario and has already received Renewable Energy Approval (REA) for another two.

## NextEra Energy Resources

- ✦ The operator of 90 wind projects in 18 states and three provinces with nearly 9,000 wind turbines providing over 8,700 megawatts of generation
- ✦ Is the leading clean energy provider operating wind, natural gas, solar, hydroelectric and nuclear power plants, and the second largest global generator of renewable energy
- ✦ Has more than 16,700 megawatts of generating capacity in North America

## Did you know? NextEra Energy Resources...

- ✦ Began developing renewable energy projects in 1989
- ✦ Has approximately 4,500 employees in North America
- ✦ Generates approximately 95% of its electricity from clean or renewable sources



## Why is Southwestern Ontario considered a great choice for wind energy?

Wind developers favour Southwestern Ontario for two main reasons:

1. Strong and consistent wind levels, particularly around the Great Lakes
2. Available and adjacent electricity transmission
  - ✦ Wind data measuring wind speeds at heights of 30 metres (98 feet), 41.5 metres (136 feet) and 48.5 metres (159 feet) has been collected in the Project Study Area since 2007
  - ✦ Wind speeds are viable for commercial wind energy generation
  - ✦ The region is well served by existing and planned transmission lines (such as Hydro One's Bruce to Milton line) that have available capacity to receive the electricity generated by the project



# WIND ENERGY CENTRE - OPEN HOUSE

## Benefits of Wind Power

### Environmental Compatibility

- ✦ Creates no air or water pollution
- ✦ Minimal greenhouse gas emissions
- ✦ Efficient and reliable
- ✦ Allows land to remain in agricultural use
- ✦ Does not use water to generate power
- ✦ Low environmental impact
- ✦ Free, renewable energy source

### Local Economic Benefits

- ✦ Provides new employment opportunities
- ✦ Adds tax base to the local municipalities
- ✦ Supports the economy through purchases of regional goods and services
- ✦ Provides 8 to 10 full time jobs, and 200 to 300 construction jobs
- ✦ Delivers landowner lease payments
- ✦ Provides Community Vibrancy Funds to support local initiatives

Over the next 20 years, we estimate the project will contribute more than:

- ✦ \$200 million in corporate income tax
- ✦ \$20 million in property tax revenue
- ✦ \$30 million in landowner payments

### Price Stability

- ✦ Decentralizes power production
- ✦ No fuel cost
- ✦ Helps stabilize the cost of power
- ✦ Electricity produced domestically





## Ontario's Renewable Energy Approval Process

- ✦ The Renewable Energy Approval (REA) process, outlined in Ontario Regulation 359/09, is a requirement for large wind power projects under Ontario's Green Energy Act
- ✦ NextEra Energy Canada will submit a Renewable Energy Approval application to the Ontario Ministry of the Environment (MOE) for each project
- ✦ The MOE will assess the application for completeness and then undertake a technical review to determine whether to issue an approval
- ✦ Other agencies, including the Ministry of Natural Resources (MNR), the Ministry of Transportation (MTO), the Ministry of Tourism, Culture and Sport (MTCS) and local conservation authorities, will provide input

## Reports included in application:

- ✦ **Project Description Report** – to provide an overview of the project and a summary of all the required REA reports
- ✦ **Archaeology and Cultural Heritage Assessment Reports** – to identify potential effects on archaeological or cultural heritage resources
- ✦ **Natural Heritage Assessment Report** – to identify potential effects on birds, bats, other wildlife, woodlands, wetlands and areas of natural and scientific interest
- ✦ **Noise Study Report** – to ensure the project is in compliance with noise regulations
- ✦ **Water Body and Water Assessment Report** – to identify potential effects on streams, seepage areas and lakes
- ✦ **Construction Plan, Design and Operation, Decommissioning Reports** – to describe these activities and identify any potential effects resulting from the various project phases
- ✦ **Consultation Report** – to demonstrate how NextEra Energy Canada engaged local and Aboriginal governments, and the community, during the project
- ✦ **Wind Turbine Specifications** – to describe the turbine technology selected for the project

# WIND ENERGY CENTRE - OPEN HOUSE

## Renewable Energy in Ontario

### The Green Energy and Green Economy Act

- ✦ Developed to stimulate the “green” economy in Ontario

### Key Components:

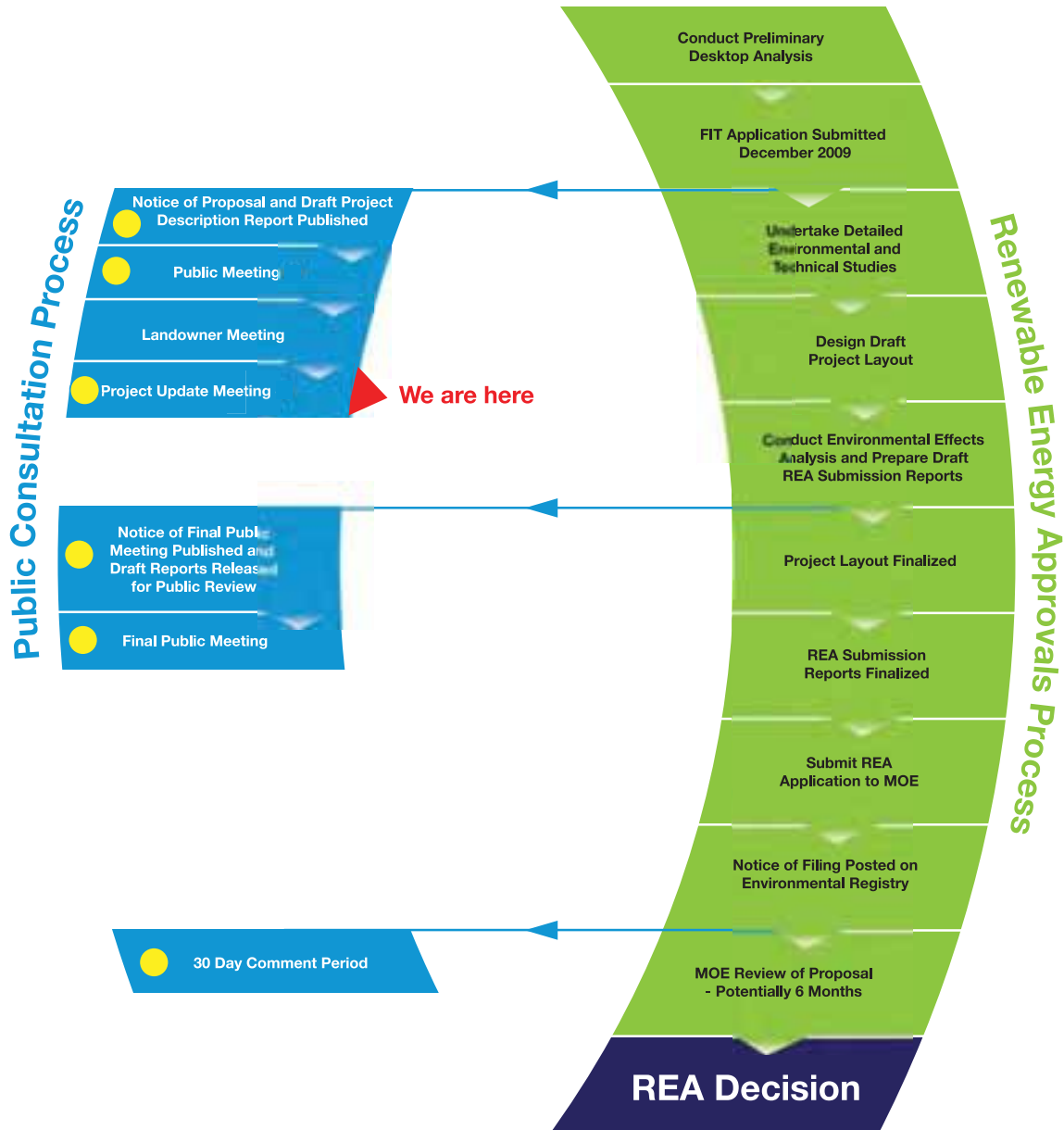
- ✦ Provincial obligation to purchase green energy
- ✦ Priority grid access for renewable energy projects
- ✦ Long-term fixed-price power contracts
- ✦ Coordinated regulatory and approvals process



### Provincial Green Energy Initiatives and the Feed-in-Tariff Program:

- ✦ Feed-in-Tariff (FIT) Program, launched by the Ontario Power Authority, is North America’s first comprehensive guaranteed pricing structure for renewable electricity production
- ✦ The FIT Program offers stable prices and long-term contracts to green energy projects that encourage investment in renewable energy and economic development across the Province
- ✦ NextEra Energy Canada had six projects that were awarded FIT contracts on July 4, 2011:
  - ✦ Adelaide Wind Energy Centre
  - ✦ Bluewater Wind Energy Centre
  - ✦ Bornish Wind Energy Centre
  - ✦ East Durham Wind Energy Centre
  - ✦ Goshen Wind Energy Centre
  - ✦ Jericho Wind Energy Centre
- ✦ We have two additional projects (Conestogo and Summerhaven Wind Energy Centres) which have been awarded a FIT contract by the Ontario Power Authority and have received the Renewable Energy Approval.

## Renewable Energy Approval Process



 **Mandatory Consultation Activity**

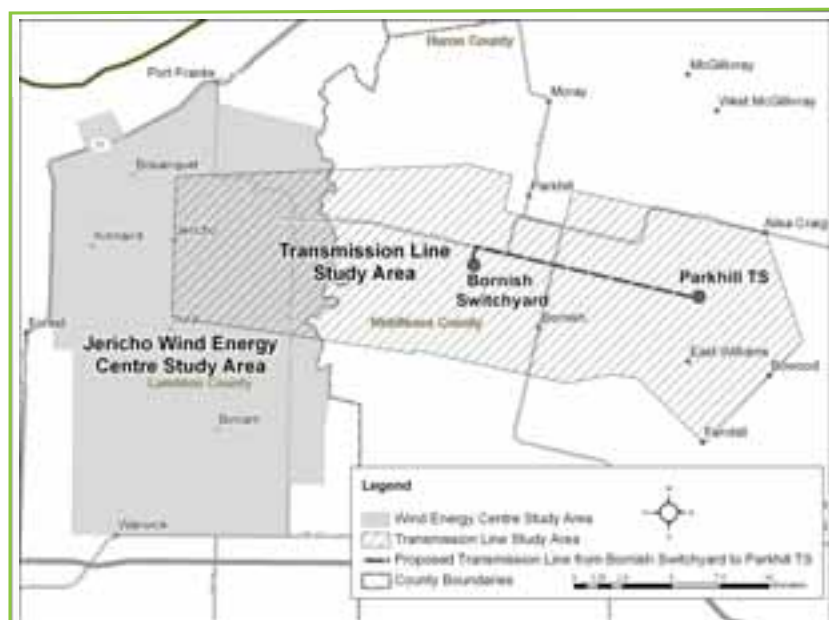
# WIND ENERGY CENTRE - OPEN HOUSE

## The Jericho Project

- ✦ The proposed Jericho Wind Energy Centre is located in the Municipality of Lambton Shores and the Township of Warwick in Lambton County and the Municipality of North Middlesex in Middlesex County
- ✦ The Wind Energy Centre will be able to generate up to 150 megawatts of electricity
- ✦ It is estimated that between 92 and 98 turbines will be constructed

### Facility components for the Jericho Wind Energy Centre will include:

- ✦ Laydown and storage areas (including temporary staging areas) for construction equipment and supplies
- ✦ Underground 34.5 kV electrical collection lines to connect the turbines to the transformer substation
- ✦ A 115 kV transmission line to run from the proposed transformer substation to the Bornish Switchyard. A common 115 kV transmission line will carry electricity from NextEra's proposed Adelaide, Bornish and Jericho Wind Energy Centres to Hydro One's 500 kV transmission line at the east end of the Transmission Line Study Area.
- ✦ Access roads for construction and maintenance
- ✦ Permanent meteorological towers to measure wind speeds, wind direction, temperature and humidity during operation



## Turbine Siting Process

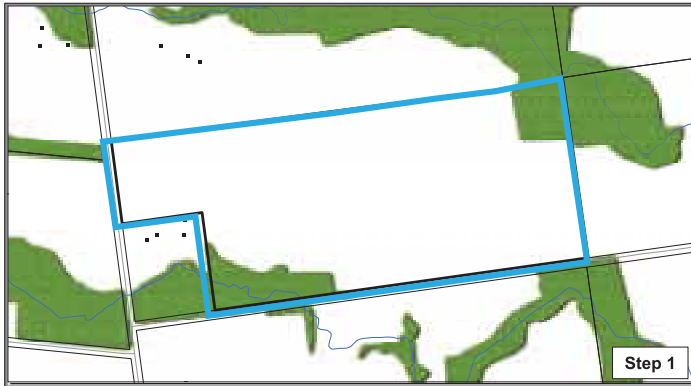
### Developing a Site Plan

The following steps outline the process of developing a project site plan:

1. Identify a sufficient wind resource and study the wind regime for several consecutive years
2. Work with local landowners to option land for wind turbines and ancillary facilities (i.e., collection lines and access roads)
3. Identify technical and environmental constraints based on input from project engineers, ecologists and aquatic biologists, cultural experts, local landowners, Aboriginal communities and government agencies
4. Identify locations to site project infrastructure by balancing technical and environmental constraints while adhering to the setback distances prescribed by the Province (i.e., Ontario Regulation 359/09)

# WIND ENERGY CENTRE - OPEN HOUSE

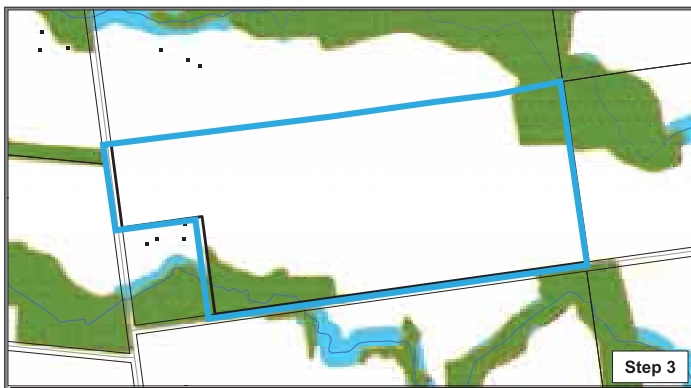
## Turbine Siting Process



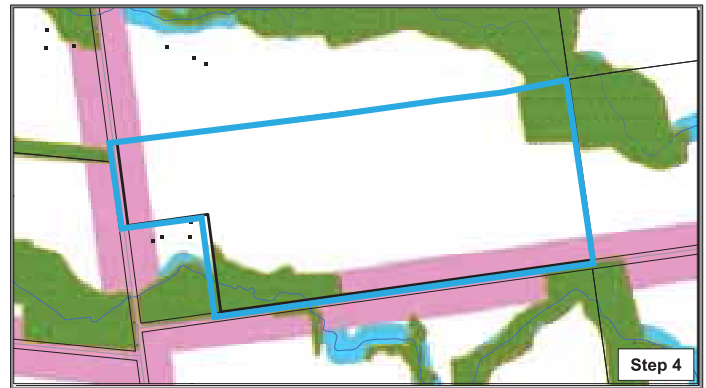
✦ Step 1: Work with local landowners to option land



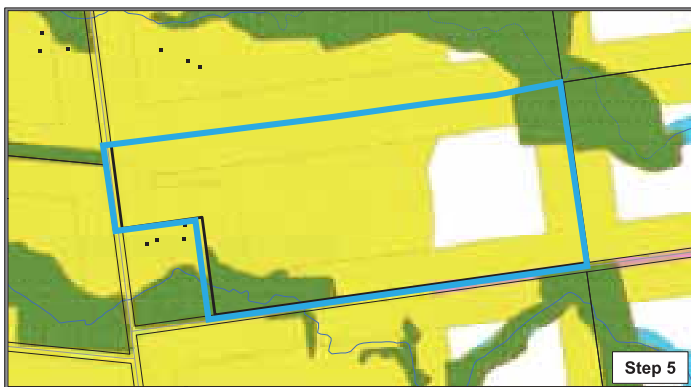
✦ Step 2: Identify terrestrial constraints



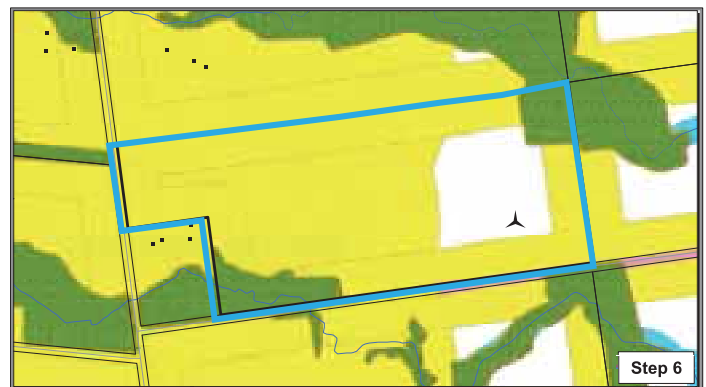
✦ Step 3: Identify aquatic constraints



✦ Step 4: Identify local infrastructure constraints



✦ Step 5: Identify socio-economic constraints



✦ Step 6: Site turbine within remaining land available

### Legend

Turbine Location	<b>Socio-Economic</b>	<b>Setback</b>
<b>Terrestrial Features</b>	Noise Receptor	Terrestrial Setback
Woodlots	<b>Local Infrastructure</b>	Aquatic Setback
<b>Aquatic Features</b>	Major Road	Local Infrastructure Setback
Waterbody		Socio-Economic Setback



## Transmission Route Overview

- ✦ NextEra will build a 115 kV transmission line on private property or within existing road right-of-ways from the Project's transformer substation to the connection point with the provincial electricity grid
- ✦ The proposed transmission line will pass through the Bornish switchyard, located in the Transmission Line Study Area, where the electricity from NextEra's proposed Adelaide and Bornish Wind Energy Centres will converge
- ✦ From this point, the proposed 115 kV line will carry electricity generated by all three projects to the connection point on the existing Hydro One 500 kV transmission line
- ✦ The electricity collected via the 34.5 kV underground collection lines will converge at the transformer substation where the electricity will be "stepped-up" to 115 kV for transmission and then routed to a breaker switch station
- ✦ The breaker switch station is the point of interconnect with the existing Hydro One transmission line
- ✦ Distance between the transmission line, existing structures and environmentally sensitive features is considered when selecting a route

### Land Owners and Easement Agreements

- ✦ NextEra Energy Canada is committed to working with landowners within the transmission corridor to find a mutually acceptable route for the transmission line
- ✦ Compensation will be made for property damage - including crop - caused during construction and operation of the transmission line

## Construction of a Transmission System

The construction of the transmission system is being considered on municipal rights of way, private lands or a combination of both within the transmission study area.

- ✦ Transmission structures will typically be single poles made of metal, wood, or concrete
- ✦ Poles will be approximately 18 to 27 metres (60 to 90 feet) in height
- ✦ Transmission lines must be constructed to standards outlined by the Province and/or electrical codes

### Transmission Approvals Process

- ✦ Transmission lines (lines with voltages higher than 50 kV) that are longer than 2 km require a Leave to Construct from the Ontario Energy Board
- ✦ This process examines the need for the line and the proposed routing to ensure that the priorities given to the Ontario Energy Board by the government are met
- ✦ The line is also permitted as part of the Renewable Energy Approval (REA) process
- ✦ Natural heritage and Archaeological studies are being conducted along proposed routes within the transmission study area including:
  - ✦ Vegetation studies
  - ✦ Aquatic habitat assessments
  - ✦ Birds, bat and wildlife studies
- ✦ Any additional studies that may be required as a result of route selection will be conducted prior to construction



## Construction of the Jericho Wind Energy Centre

### Turbine siting and surveys

- ✦ Site preparation will include final turbine siting and surveys
- ✦ During these surveys, boundaries of turbine sites will be staked and existing buried infrastructure will be located and marked

### Access roads

- ✦ Municipal and Provincial roads will be used to transport equipment to the construction sites
- ✦ Minor modifications may be required to some of the existing roads (e.g., widening the turning radius) to transport equipment
- ✦ New access roads will typically be 11 m (36 feet) wide during the construction phase
- ✦ No permanent paved roads will need to be constructed for the turbines
- ✦ Equipment will be delivered by truck and trailer as needed throughout the construction phase and stored at temporary laydown sites surrounding each turbine



## Construction of the Jericho Wind Energy Centre

### Electrical Collector System:

- ✦ This system consists of a mixture of underground cables, pad mounted transformers and a substation
- ✦ Ploughing and trenching will be used to install the underground cables
- ✦ The cabling will be buried at a depth that will not interfere with normal agricultural practices and maps of cable locations will be provided to landowners

### Wind Turbines:

- ✦ Foundations will be made of poured concrete, reinforced with steel rebar to provide strength
- ✦ Each foundation will require an excavation of approximately 3 metres (10 feet) deep, and 20 metres (66 feet) by 20 metres (66 feet) square
- ✦ Only the tower base portion of the foundation will be left above ground
- ✦ The turbine will then be anchored to the foundation by large bolts set in the concrete foundation
- ✦ Turbine assembly and installation will typically require 4 to 5 days per turbine
- ✦ Following commissioning, the area surrounding the turbine will be returned to its pre-construction state

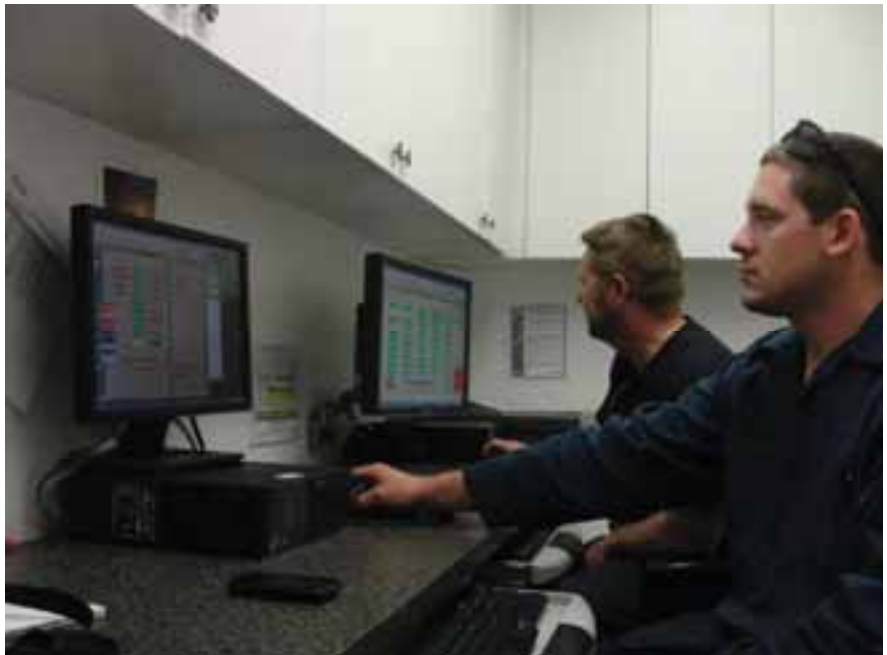


# WIND ENERGY CENTRE - OPEN HOUSE

## Operations and Maintenance

NextEra Energy believes in “prevention” versus “event response” through component condition and performance assessment.

- ✦ Experienced operations and maintenance managers
- ✦ On-going training and mentoring programs to maintain safe and efficient operation
- ✦ Site staff supported by centralized maintenance and environmental staff
- ✦ Supported by 24/7 Fleet Performance and Diagnostic Centre
- ✦ Local operations team available to answer questions and address concerns



# WIND ENERGY CENTRE - OPEN HOUSE

## Decommissioning

- ✦ The anticipated life of the project is approximately 30 years. Decommissioning of the turbines will occur following the operations phase. A plan has been developed to dismantle or decommission the Project and to restore the land and manage excess water or waste
- ✦ Decommissioning will be done in accordance with the Ontario Health and Safety Act and any applicable municipal, provincial and federal regulations and standards
- ✦ The following components will be removed during dismantling:
  - ✦ Turbines
  - ✦ Overhead lines and poles
  - ✦ Transformer substations

## Restoration of land and water

- ✦ All areas, including the access roads, transformer pads and crane pads will be restored as much as practical to their original condition with native soils and seeding
- ✦ There is the option for turbines to be “re-powered” meaning that components could be replaced to extend the life of the Project and delay decommissioning. This is optional and turbines may still be decommissioned





# WIND ENERGY CENTRE - OPEN HOUSE

## Health and Wind Power

- ✦ Many studies have been conducted world-wide to examine the relationship between wind turbines and possible human health effects (e.g., audible/inaudible noise, shadow flicker, electromagnetic fields (EMF))
- ✦ **Audible / Inaudible Noise:** Ontario's Chief Medical Officer of Health (May 2010) conducted a review of the scientific literature related to wind turbines and public health. The review concluded that:

*"while some people living near wind turbines report symptoms such as dizziness, headaches, and sleep disturbance, the scientific evidence available to date does not demonstrate a direct causal link between wind turbine noise and adverse health effects. The sound level from wind turbines at common residential setbacks is not sufficient to cause hearing impairment or other direct health effects, although some people may find it annoying."*

- ✦ **Shadow flicker:** Scientific evidence suggests that shadow flicker from wind turbines does not pose a risk of photo-induced seizures; modern wind turbines simply don't rotate at a speed that has been linked to this condition (generally less than 20 rpm vs. over 60 rpm)
- ✦ **EMF:** Health Canada (2010) has stated:

*"You do not need to take action regarding daily exposures to electric and magnetic fields at extremely low frequencies. There is no conclusive evidence of any harm caused by exposures at levels found in Canadian homes and schools, including those located just outside the boundaries of power line corridors."*

- ✦ Overall, health and medical agencies agree that when sited properly, wind turbines are not causally related to adverse effects\*

*"Ontario doctors, nurses, and other health professionals support energy conservation combined with wind and solar power – to help us move away from coal."\*\**

- ✦ Scientists and medical experts around the world continue to publish research in this area. Through our health consultants, Intrinsic is committed to keeping informed on this issue.

\*Chatham-Kent Public Health Unit, 2008; Australian Government, National Health and Medical Research Council, 2010; Australian Government, 2011; Massachusetts Department of Environmental Protection (MassDEP) and Massachusetts Department of Public Health (MDPH), 2012.

\*\*Ontario College of Family Physicians, Registered Nurses Association of Ontario, Canadian Association of Physicians for the Environment, Physicians for Global Survival, the Asthma Society of Canada, and the Lung Association.

# WIND ENERGY CENTRE - OPEN HOUSE

## Noise Studies

Noise studies will be conducted to help determine the final turbine layouts. The noise studies comprise the following steps:

- ✦ Step 1: Identify points of reception – dwellings (typically houses) that are within 2 km of the wind turbines
- ✦ Step 2: Obtain wind turbine specifications and noise emission ratings from the manufacturer
- ✦ Step 3: Using initial wind turbine layouts, predict the noise levels generated at points of reception using a noise prediction model to ensure allowable limits are not exceeded. The noise model is designed in accordance with standards set by the Ministry of Environment (MOE)
- ✦ Step 4: Using the noise model results, revise turbine layouts as necessary to ensure that the final turbine layouts meet all applicable noise guidelines

### Noise requirements under Renewable Energy Approval Regulation (O.Reg. 359/09)

- ✦ Wind turbines will be set back from dwelling units that are not part of the project by at least 550 m (1804 ft) and must be at or below 40 dBA
- ✦ Noise from turbines must meet provincial noise limits as outlined in MOE publication 4709e “Noise Guidelines for Wind Farms”



## Aboriginal Consultation



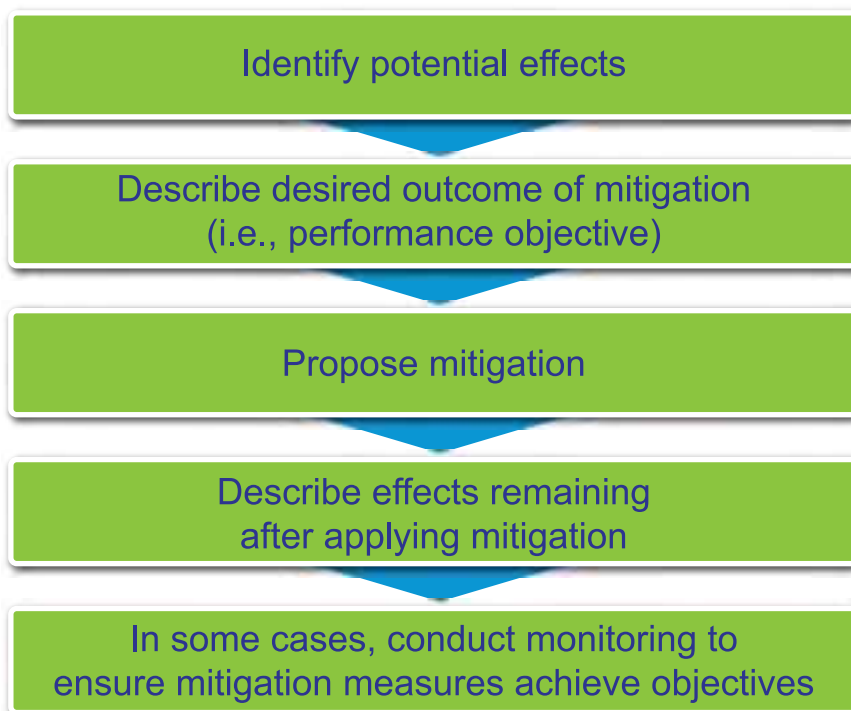
- ✦ Canada's Constitution Act, 1982, recognizes the rights of Aboriginal peoples (First Nation, Inuit and Métis)
- ✦ Ontario Regulation 359/09 has specific requirements for Aboriginal consultation
- ✦ Ontario Power Authority's Feed-in-Tariff program reinforces the importance of Aboriginal consultation
- ✦ Project proponents are delegated the "procedural aspects" of Aboriginal consultation
- ✦ Aboriginal consultation may include environmental, archaeological, cultural and spiritual issues
- ✦ NextEra Energy Canada is working closely with Aboriginal communities and leadership as required by law and good practice to:
  - ✦ Offer meaningful information about its projects
  - ✦ Seek information that helps ensure good planning to avoid or minimize impacts
  - ✦ Openly discuss issues, interests and concerns
  - ✦ Seek workable and mutually acceptable solutions
  - ✦ Foster relationships of mutual respect

## Potential Benefits and Effects

NextEra will conduct a wide range of studies to understand the potential benefits and effects of the Jericho Wind Energy Centre. In doing so, we'll consider impacts of construction, operation and decommissioning of the wind energy centre on the following:

- ✦ Archaeological and Cultural Resources
- ✦ Natural Environment and Wildlife
- ✦ Water Bodies
- ✦ Noise

We'll take the following steps to minimize or eliminate any impacts:





## Natural Heritage: Birds

- NextEra Energy Canada has utilized an avian (bird) monitoring protocol that meets the requirements of MNR's natural heritage assessment guidelines for turbines and birds
- Bird surveys have included Spring Bird Migration Surveys, Breeding Bird Surveys, Fall Bird Surveys and Winter Bird Surveys
- Bird surveys are being conducted over all four seasons to profile species and look at the following factors:
  - ✦ Migration Patterns
  - ✦ Breeding Activity
  - ✦ Behaviour Patterns
  - ✦ Significant or Critical Habitats
- The bird surveys are being conducted by establishing survey plots, visual and sound observations, and a search of habitat in the study area
- Bird studies are ongoing and data from the studies are currently being analyzed and compiled
- The results of these studies will be submitted to the MNR for review and approval as part of the Natural Heritage Assessment Report
- Findings from the natural heritage studies are being considered in the wind farm design to minimize impacts



## Natural Heritage: Bats

- Properties that contain wooded areas within 120 m (394 feet) of proposed infrastructure were examined by biologists to search for suitable bat habitat
- After examining the habitats, certain properties were chosen for more extensive monitoring which involved installation of bat monitoring equipment within (or adjacent to) the wooded habitats for 10 days in June 2012 to record the number of bat passes
- These properties also require 10 nights of visual surveys, to be completed in mid-July 2012, which involves examining woodlands with spotlights and microphones to look for bat activity
- Bat monitoring is being conducted in accordance with the Ministry of Natural Resources “Bats and Bat Habitats: Guidelines for Wind Power Projects (July 2011)” and will be reviewed by the Ministry of Natural Resources as part of the REA’s Natural Heritage Assessment requirements
- Findings from these studies will be considered in the wind farm design to minimize impacts



## Natural Heritage: Water

- Aquatic studies have been underway since the summer of 2011
- This work involves aquatic biologists visiting watercourses within 120 m (394 feet) of proposed project infrastructure and conducting investigations to:
  - ✦ Measure stream width and depth
  - ✦ Characterize vegetation cover, substrate composition and water flow patterns
  - ✦ Observe the presence of fish and groundwater
- Findings from these studies will be used to determine potential effects on fish, water quality and surface and ground water quantity as a result of the proposed project. These findings are being considered in the wind farm design to minimize impacts
- NextEra Energy Canada will submit a Water Assessment and Water Body Report to the Ministry of the Environment that will outline potential effects, proposed mitigation measures and monitoring commitments and determine the significance of residual effects
- NextEra Energy Canada will obtain all applicable permits from the appropriate approval agencies, including the Ausable Bayfield Conservation Authority, St. Clair Region Conservation Authority and the Ministry of Natural Resources (MNR)



## Archaeological Studies

- The work is being completed by licensed archaeologists according to Ministry of Tourism, Culture and Sport (MTCS) standards. An independent First Nations monitor is accompanying crews who report directly to four First Nations
- An Archaeological Assessment Study will be submitted to MTCS for review and will:
  - ✦ Identify archaeological resources within the study area
  - ✦ Describe potential negative effects on archaeological resources during construction, operation and decommissioning
  - ✦ Propose mitigation measures to avoid or minimize negative effects on those resources
- A desktop archaeological study (Stage 1 Archaeological Assessment) was carried out in Fall 2010 to determine if there is potential to identify previously undiscovered archaeological resources within the study area
- A Stage 2 Archaeological Assessment is ongoing and involves pedestrian surveys at 5m (16ft) intervals to identify/ collect any artifacts found in areas of potential disturbance
- The results of this assessment will determine whether site-specific Stage 3 Archaeological Assessments are required – these site-specific assessments involve further research and fieldwork to identify the boundaries of any archaeological sites identified during Stage 2 work
- Upon completion, a comprehensive Stage 2 Archaeological Assessment will be submitted to the MTCS for acceptance into the Ontario Public Register of Archaeological Reports
- Findings from the archaeological studies are being considered in the wind farm design to minimize impacts as much as possible





## Cultural Heritage

- A Cultural Heritage Assessment is being carried out to assess built heritage resources and cultural heritage landscapes in the study area
- This assessment involves:
  - ✦ The development of a land use history of the study area through the use of historical archival research and a review of historical mapping
  - ✦ The identification of protected properties, built heritage resources (e.g., buildings) and cultural heritage landscapes through municipal consultation, a windshield survey and background research
  - ✦ Public consultation with knowledgeable members of the historical community including local historians and archivists
- Site visits will be conducted to identify built heritage resources and cultural heritage landscapes in the study area
- A Cultural Heritage Assessment report will be submitted to the Ministry of Tourism, Culture and Sport for review and will:
  - ✦ Identify cultural heritage resources within the study area
  - ✦ Describe potential negative effects on heritage resources during construction, operation and decommissioning
  - ✦ Propose mitigation measures to avoid or minimize negative effects on those resources
- It is anticipated that there will be no detrimental direct or indirect impacts to the built or cultural heritage resources located in the study area

## Answers to your Questions

### **Q: How loud are wind turbines?**

**A:** With the evolution of modern wind turbine technology, the mechanical noise from the turbine is almost undetectable. Turbines only run when the wind is blowing and the sound of the wind masks most of the noise. What's more, wind projects in Ontario are under strict sound guidelines, as prescribed by the Ministry of the Environment. For residences in the area, the Jericho Wind Energy Centre will be quieter than many common sounds – such as a quiet room.

NextEra is committed to meeting the sound limit requirements set by the Ministry of the Environment. If concerns regarding sound level arise, we will investigate and, if necessary, remedy the situation as soon as possible.

### **Q: This area is a stopping point for migrating Tundra Swans. Will you consider this when deciding where to put a wind turbine?**

**A:** Yes, we continue to consult with local organizations to understand the swans' migration route and stopover areas. This information will be considered, along with environmental, local infrastructure and socio-economic information, when determining where best to place a wind turbine.

### **Q: Do turbines pose a danger to area wildlife (e.g., birds or bats)?**

**A:** When properly sited, wind turbines present less of a danger to wildlife than other structures such as buildings and roads. Turbines will be located as carefully as possible to minimize any effects on wildlife. NextEra Energy Canada will work closely with the relevant experts to assess any potential effects on wildlife, including birds and bats.

### **Q: What impact do wind turbines have on our health?**

**A:** NextEra takes concerns about human health very seriously. Although much has been written about health effects associated with wind turbines, we have found no credible, scientifically peer-reviewed study that demonstrates a link between wind turbines and negative health effects. For more information, please review the Health and Wind Turbines information board.

# WIND ENERGY CENTRE - OPEN HOUSE

## Answers to Your Questions

### **Q: What effect will a wind farm have on the value of my property?**

**A:** Based on available research, we are not aware of any credible evidence to indicate a decline in property values from the siting of a wind farm. Independent studies have been conducted by Ontario municipalities, leading universities, and other entities which have concluded that the construction of a wind facility does not detract from property values.

### **Q: Do wind turbines cause stray voltage?**

**A:** Stray voltage is a low-level current or shock (typically under 10 volts) that can be caused by improper grounding or, in some cases, an ungrounded electrical system. Stray voltage is not a consequence of wind energy. It may be present in any electrical distribution system regardless of source and may be especially prevalent on working farms because of the nature of these operations.

NextEra will adopt industry best practices at all times to minimize the risk of stray voltage and ensure our Wind Energy Centres are built and maintained within acceptable levels, as prescribed by the local safety code. While we do not intend to connect the Jericho Wind Energy Centre to the local distribution system that serves barns and houses in the area, we are aware that transmission lines – when not properly designed – can induce current on nearby distribution lines. To address this and to minimize the impact on local distribution customers, we are already working closely with Hydro One.

### **Q: Who pays to decommission the turbines?**

**A:** Jericho Wind Energy Centre is responsible for any decommissioning costs. The process to decommission the turbines will be established through the Renewable Energy Approval process, which specifies the need for a Decommissioning Plan. The community will have an opportunity to provide input and comment on the plan that will be part of the application filed with the Ministry of the Environment.

### **Q: When can we expect to see a final transmission line route?**

**A:** NextEra Energy Canada is currently working with the municipality, local landowners, project engineers and biologists to identify a preferred route that takes into consideration local economic, geographic and social considerations. The final proposed transmission line route will be presented 60 days prior to the final public meeting, which will likely take place this winter.

For a complete list of comments and questions from the public, please visit the Frequently Asked Questions sections on our website. We will also publish concerns and inquiries in the public consultation report, which will be filed with the REA documents and posted on our website.

# WIND ENERGY CENTRE - OPEN HOUSE

## *Thank you for Attending!*

- ✦ Thank you for attending this evening's Community Update Open House
- ✦ Your input is important to us: please fill out an exit questionnaire and either leave it with us tonight or mail it to us using the contact information below
- ✦ Our next meeting is tentatively scheduled for the fall when we will present the final turbine and transmission line layouts, identify potential effects and discuss mitigation measures.
- ✦ Should you have any further questions or comments, please do not hesitate to contact us:

**E-mail:** [Jericho.Wind@NextEraEnergy.com](mailto:Jericho.Wind@NextEraEnergy.com)

**Phone:** 1-877-257-7330

**Mail:** Derek Dudek  
Community Relations Consultant  
NextEra Energy Canada  
5550 North Service Road, Suite 205  
Burlington, ON, L7L 6W6

## Our environmental consultants:

Jericho Wind Energy Project  
AECOM  
Marc Rose, Project Manager  
905-477-8400, Ext. 388  
[Marc.Rose@aecom.com](mailto:Marc.Rose@aecom.com)



[www.NextEraEnergyCanada.com](http://www.NextEraEnergyCanada.com)



COMMENT FORM • July 17, 2012

**Your comments will be considered. We are collecting this information to help us understand and address your concerns about the Project. Comments will become part of the public record with the exception of personal information.**

1. Did the information at the meeting meet your expectations?

- Yes
- Somewhat
- No

Please explain: \_\_\_\_\_

\_\_\_\_\_

2. If you asked questions during the meeting did you get a satisfactory response?

- Yes
- Didn't speak to anyone
- Somewhat
- No

Please explain: \_\_\_\_\_

\_\_\_\_\_

3. After attending the meeting, how do you feel about the Project?

- Supportive
- Undecided
- Undecided and would like more information
- Non supportive

Please explain and let us know what other information you would like to receive: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. What topics would you like to learn more about? (check all that apply)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Aboriginal interests | <input checked="" type="checkbox"/> Community Partnerships |
| <input checked="" type="checkbox"/> Socio-economic       | <input checked="" type="checkbox"/> Transmission           |
| <input checked="" type="checkbox"/> Environment          | <input checked="" type="checkbox"/> Project Details        |
| <input checked="" type="checkbox"/> Human Health         | <input checked="" type="checkbox"/> Other (Specify) _____  |

\_\_\_\_\_

5. Please provide your comments or questions in the space provided below:

You R NOT Welcome  
in my community  
Sunco has better  
catering.

If you would like to be kept informed about the status of the Goshen Wind Energy Project, please provide your contact information below

Name: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City/Province: \_\_\_\_\_  
Postal Code: \_\_\_\_\_ Email: \_\_\_\_\_

To learn more about the Project, or to send your completed comment form to us, please contact:

Derek Dudek  
Community Relations Consultant  
NextEra Energy Canada, ULC  
5500 North Service Road, Suite 205  
Burlington, Ontario L7L 6W6

Toll Free: 1-877-257-7330  
Email: [Jericho.Wind@NextEraEnergy.com](mailto:Jericho.Wind@NextEraEnergy.com)  
Website: [www.NextEraEnergyCanada.com](http://www.NextEraEnergyCanada.com)

# Jericho Wind Energy Centre



COMMENT FORM • July 17, 2012

**Your comments will be considered. We are collecting this information to help us understand and address your concerns about the Project. Comments will become part of the public record with the exception of personal information.**

1. Did the information at the meeting meet your expectations?

- Yes
- Somewhat
- No

Please explain: \_\_\_\_\_

\_\_\_\_\_

2. If you asked questions during the meeting did you get a satisfactory response?

- Yes
- Didn't speak to anyone
- Somewhat
- No

Please explain: \_\_\_\_\_

\_\_\_\_\_

3. After attending the meeting, how do you feel about the Project?

- Supportive
- Undecided
- Undecided and would like more information
- Non supportive

Please explain and let us know what other information you would like to receive: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. What topics would you like to learn more about? (check all that apply)

- |   |   |
|---|---|
| <input type="checkbox"/> Aboriginal interests | <input type="checkbox"/> Community Partnerships |
| <input type="checkbox"/> Socio-economic       | <input type="checkbox"/> Transmission           |
| <input type="checkbox"/> Environment          | <input type="checkbox"/> Project Details        |
| <input type="checkbox"/> Human Health         | <input type="checkbox"/> Other (Specify) _____  |

\_\_\_\_\_

# Jericho Wind Energy Centre



5. Please provide your comments or questions in the space provided below:

Learn to cut!  
paste

If you would like to be kept informed about the status of the Goshen Wind Energy Project, please provide your contact information below.

Name: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City/Province: \_\_\_\_\_  
Postal Code: \_\_\_\_\_ Email: \_\_\_\_\_

To learn more about the Project, or to send your completed comment form to us, please contact:

Derek Dudek  
Community Relations Consultant  
NextEra Energy Canada, ULC  
5500 North Service Road, Suite 205  
Burlington, Ontario L7L 6W6

Toll Free: 1-877-257-7330  
Email: [Jericho.Wind@NextEraEnergy.com](mailto:Jericho.Wind@NextEraEnergy.com)  
Website: [www.NextEraEnergyCanada.com](http://www.NextEraEnergyCanada.com)

# Jericho Wind Energy Centre



COMMENT FORM • July 17, 2012

**Your comments will be considered. We are collecting this information to help us understand and address your concerns about the Project. Comments will become part of the public record with the exception of personal information.**

1. Did the information at the meeting meet your expectations?

- Yes
- Somewhat
- No

Please explain: \_\_\_\_\_  
\_\_\_\_\_

2. If you asked questions during the meeting did you get a satisfactory response?

- Yes
- Didn't speak to anyone
- Somewhat
- No

Please explain: \_\_\_\_\_  
\_\_\_\_\_

3. After attending the meeting, how do you feel about the Project?

- Supportive
- Undecided
- Undecided and would like more information
- Non supportive

Please explain and let us know what other information you would like to receive: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. What topics would you like to learn more about? (check all that apply)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Aboriginal interests | <input checked="" type="checkbox"/> Community Partnerships |
| <input checked="" type="checkbox"/> Socio-economic       | <input checked="" type="checkbox"/> Transmission           |
| <input type="checkbox"/> Environment                     | <input type="checkbox"/> Project Details                   |
| <input checked="" type="checkbox"/> Human Health         | <input checked="" type="checkbox"/> Other (Specify) _____  |

\_\_\_\_\_



# Jericho Wind Energy Centre



5. Please provide your comments or questions in the space provided below:

New Green Energy  
job  
Project reader

If you would like to be kept informed about the status of the Goshen Wind Energy Project, please provide your contact information below.

Name: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City/Province: \_\_\_\_\_  
Postal Code: \_\_\_\_\_ Email: \_\_\_\_\_

To learn more about the Project, or to send your completed comment form to us, please contact:

Derek Dudek  
Community Relations Consultant  
NextEra Energy Canada, ULC  
5500 North Service Road, Suite 205  
Burlington, Ontario L7L 6W6

Toll Free: 1-877-257-7330  
Email: [Jericho.Wind@NextEraEnergy.com](mailto:Jericho.Wind@NextEraEnergy.com)  
Website: [www.NextEraEnergyCanada.com](http://www.NextEraEnergyCanada.com)

# Jericho Wind Energy Centre



COMMENT FORM • July 17, 2012

**Your comments will be considered. We are collecting this information to help us understand and address your concerns about the Project. Comments will become part of the public record with the exception of personal information**

1. Did the information at the meeting meet your expectations?

- Yes
- Somewhat
- No

Please explain: \_\_\_\_\_

2. If you asked questions during the meeting did you get a satisfactory response?

- Yes
- Didn't speak to anyone
- Somewhat
- No

Please explain: \_\_\_\_\_

3. After attending the meeting, how do you feel about the Project?

- Supportive
- Undecided
- Undecided and would like more information
- Non supportive

Please explain and let us know what other information you would like to receive: \_\_\_\_\_

*↳ you are not welcome*

4. What topics would you like to learn more about? (check all that apply)

- |   |   |
|---|---|
| <input type="checkbox"/> Aboriginal interests | <input type="checkbox"/> Community Partnerships |
| <input type="checkbox"/> Socio-economic       | <input type="checkbox"/> Transmission           |
| <input type="checkbox"/> Environment          | <input type="checkbox"/> Project Details        |
| <input type="checkbox"/> Human Health         | <input type="checkbox"/> Other (Specify) _____  |

\_\_\_\_\_

5. Please provide your comments or questions in the space provided below:

wrong  
project.



If you would like to be kept informed about the status of the Goshen Wind Energy Project, please provide your contact information below

Name: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City/Province: \_\_\_\_\_  
Postal Code: \_\_\_\_\_ Email: \_\_\_\_\_

To learn more about the Project, or to send your completed comment form to us, please contact:

Derek Dudek  
Community Relations Consultant  
NextEra Energy Canada, ULC  
5500 North Service Road, Suite 205  
Burlington, Ontario L7L 6W6

Toll Free: 1-877-257-7330  
Email: [Jericho.Wind@NextEraEnergy.com](mailto:Jericho.Wind@NextEraEnergy.com)  
Website: [www.NextEraEnergyCanada.com](http://www.NextEraEnergyCanada.com)



# Jericho Wind Energy Centre



COMMENT FORM • July 17, 2012

**Your comments will be considered. We are collecting this information to help us understand and address your concerns about the Project. Comments will become part of the public record with the exception of personal information.**

1. Did the information at the meeting meet your expectations?

- Yes
- Somewhat
- No

Please explain: \_\_\_\_\_  
\_\_\_\_\_

2. If you asked questions during the meeting did you get a satisfactory response?

- Yes
- Didn't speak to anyone
- Somewhat
- No

Please explain: \_\_\_\_\_  
\_\_\_\_\_

3. After attending the meeting, how do you feel about the Project?

- Supportive
- Undecided
- Undecided and would like more information
- Non supportive

Please explain and let us know what other information you would like to receive: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. What topics would you like to learn more about? (check all that apply)

- |   |   |
|---|---|
| <input type="checkbox"/> Aboriginal interests | <input type="checkbox"/> Community Partnerships |
| <input type="checkbox"/> Socio-economic       | <input type="checkbox"/> Transmission           |
| <input type="checkbox"/> Environment          | <input type="checkbox"/> Project Details        |
| <input type="checkbox"/> Human Health         | <input type="checkbox"/> Other (Specify) _____  |
- \_\_\_\_\_

*NextEra  
is not welcome  
in our community!!!!*

# Jericho Wind Energy Centre



5. Please provide your comments or questions in the space provided below:

Handwritten text in the comment box: "Huh? which project is this for?!"

If you would like to be kept informed about the status of the Goshen Wind Energy Project, please provide your contact information below.

Name: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City/Province: \_\_\_\_\_  
Postal Code: \_\_\_\_\_ Email: \_\_\_\_\_

To learn more about the Project, or to send your completed comment form to us, please contact:

Derek Dudek  
Community Relations Consultant  
NextEra Energy Canada, ULC  
5500 North Service Road, Suite 205  
Burlington, Ontario L7L 6W6

Toll Free: 1-877-257-7330  
Email: [Jericho.Wind@NextEraEnergy.com](mailto:Jericho.Wind@NextEraEnergy.com)  
Website: [www.NextEraEnergyCanada.com](http://www.NextEraEnergyCanada.com)

COMMENT FORM • July 17, 2012

**Your comments will be considered. We are collecting this information to help us understand and address your concerns about the Project. Comments will become part of the public record with the exception of personal information.**

1. Did the information at the meeting meet your expectations?

- Yes
- Somewhat
- No

Please explain: \_\_\_\_\_  
\_\_\_\_\_

2. If you asked questions during the meeting did you get a satisfactory response?

- Yes
- Didn't speak to anyone
- Somewhat
- No

Please explain: \_\_\_\_\_  
\_\_\_\_\_

3. After attending the meeting, how do you feel about the Project?

- Supportive
- Undecided
- Undecided and would like more information
- Non supportive

Please explain and let us know what other information you would like to receive: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. What topics would you like to learn more about? (check all that apply)

- |   |   |
|---|---|
| <input type="checkbox"/> Aboriginal interests | <input type="checkbox"/> Community Partnerships |
| <input type="checkbox"/> Socio-economic       | <input type="checkbox"/> Transmission           |
| <input type="checkbox"/> Environment          | <input type="checkbox"/> Project Details        |
| <input type="checkbox"/> Human Health         | <input type="checkbox"/> Other (Specify) _____  |
- \_\_\_\_\_

# Jericho Wind Energy Centre



5. Please provide your comments or questions in the space provided below:

GO AWAY

If you would like to be kept informed about the status of the **Goshen Wind Energy Project**, please provide your contact information below.

Name: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City/Province: \_\_\_\_\_  
Postal Code: \_\_\_\_\_ Email: \_\_\_\_\_

To learn more about the Project, or to send your completed comment form to us, please contact:

Derek Dudek  
Community Relations Consultant  
NextEra Energy Canada, ULC  
5500 North Service Road, Suite 205  
Burlington, Ontario L7L 6W6

Toll Free: 1-877-257-7330  
Email: [Jericho.Wind@NextEraEnergy.com](mailto:Jericho.Wind@NextEraEnergy.com)  
Website: [www.NextEraEnergyCanada.com](http://www.NextEraEnergyCanada.com)

YOU ARE NOT WELCOME

# Jericho Wind Energy Centre



COMMENT FORM • July 17, 2012

**Your comments will be considered.** We are collecting this information to help us understand and address your concerns about the Project. Comments will become part of the public record with the exception of personal information

1. Did the information at the meeting meet your expectations?

- Yes
- Somewhat
- No

Please explain: \_\_\_\_\_  
\_\_\_\_\_

2. If you asked questions during the meeting did you get a satisfactory response?

- Yes
- Didn't speak to anyone
- Somewhat
- No

Please explain: \_\_\_\_\_  
\_\_\_\_\_

3. After attending the meeting, how do you feel about the Project?

- Supportive
- Undecided
- Undecided and would like more information
- Non supportive

Please explain and let us know what other information you would like to receive: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. What topics would you like to learn more about? (check all that apply)

- |   |   |
|---|---|
| <input type="checkbox"/> Aboriginal interests | <input type="checkbox"/> Community Partnerships |
| <input type="checkbox"/> Socio-economic       | <input type="checkbox"/> Transmission           |
| <input type="checkbox"/> Environment          | <input type="checkbox"/> Project Details        |
| <input type="checkbox"/> Human Health         | <input type="checkbox"/> Other (Specify) _____  |
- \_\_\_\_\_

*details  
are necessary*

*NextEra is not  
welcome in our  
community*



