

# Welcome!

NextEra Energy Canada welcomes you to tonight's event.

## We are here to:

- ✦ Provide an overview of the transmission line process and siting
- ✦ Update you on Project Status
- ✦ Illustrate changes to the turbine layout
- ✦ Answer your questions
- ✦ Receive your comments on the proposed changes





## 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 currently working toward approval of six wind energy centres in Ontario. We currently have two projects that received Renewable Energy Approval (REA).

## NextEra Energy Resources

We are:

- ✦ 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
- ✦ The second largest global generator of renewable energy
- ✦ The largest generator of both wind and solar power in North America operating wind energy facilities for over 21 years

## Did you know that 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 has been collected in the Project Study Area since 2007 measuring wind speeds at heights of 40 metres (131 feet), 50 metres (164 feet) and 60 metres (197 feet)
  - ✦ 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





## 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 in power generation
- ✦ 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
- ✦ 8-10 full time jobs
- ✦ 200-300 construction jobs
- ✦ Delivers landowner lease payments
- ✦ Community Vibrancy Funds to support local initiatives

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

- ✦ \$166 million in corporate income tax
- ✦ \$10 million in property tax revenue to Huron County
- ✦ \$21 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, areas of natural and scientific interest, etc.
- ✦ **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, as well as the public, during the project
- ✦ **Wind Turbine Specifications** – to describe the turbine technology selected for the project



## Renewable Energy in Ontario

### The Green Energy and Green Economy Act

- Developed to stimulate the “green” economy in Ontario and create up to 50,000 jobs

### 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



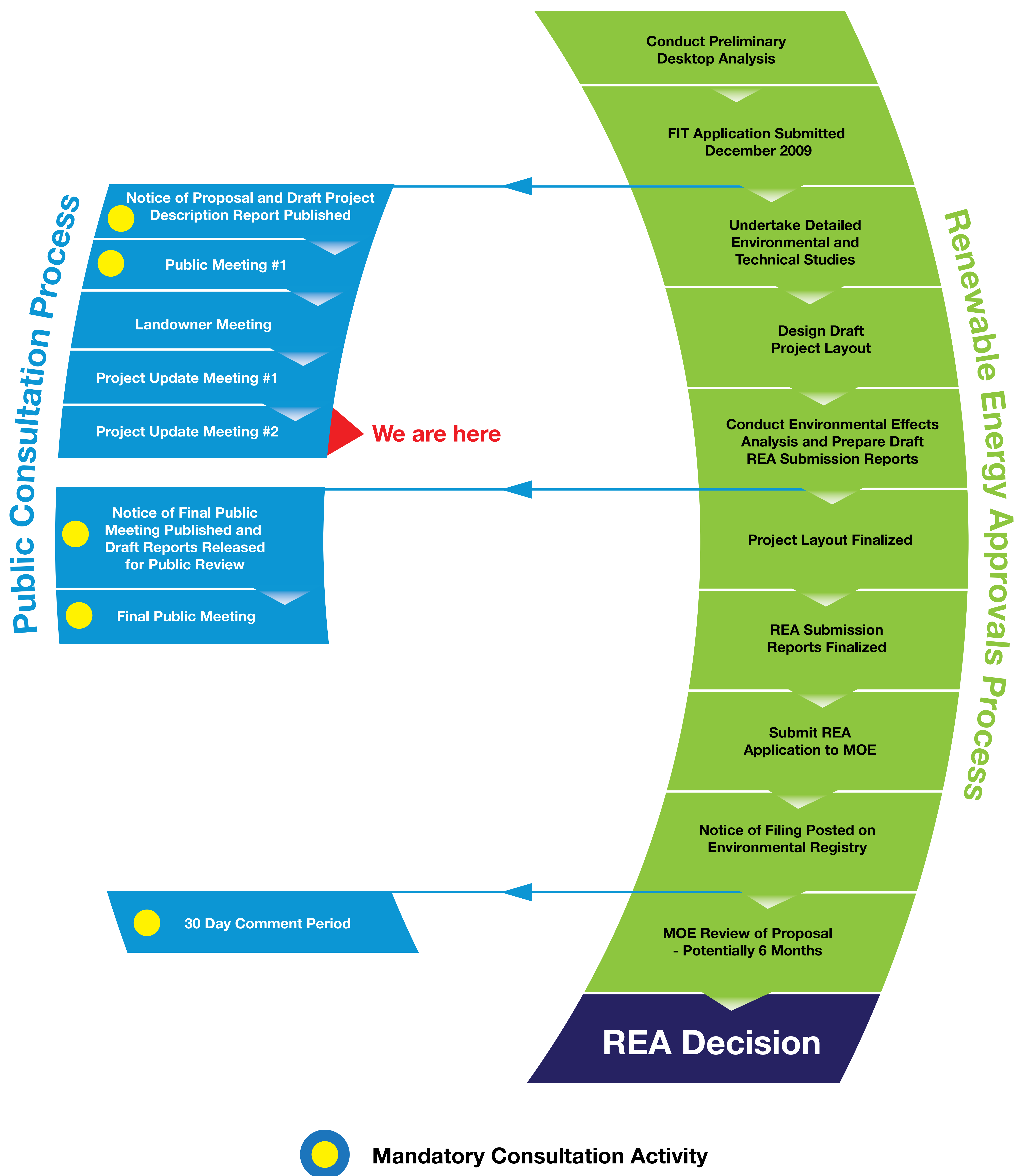
## Provincial Green Energy Initiatives and the Feed-in-Tariff Program:

- 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



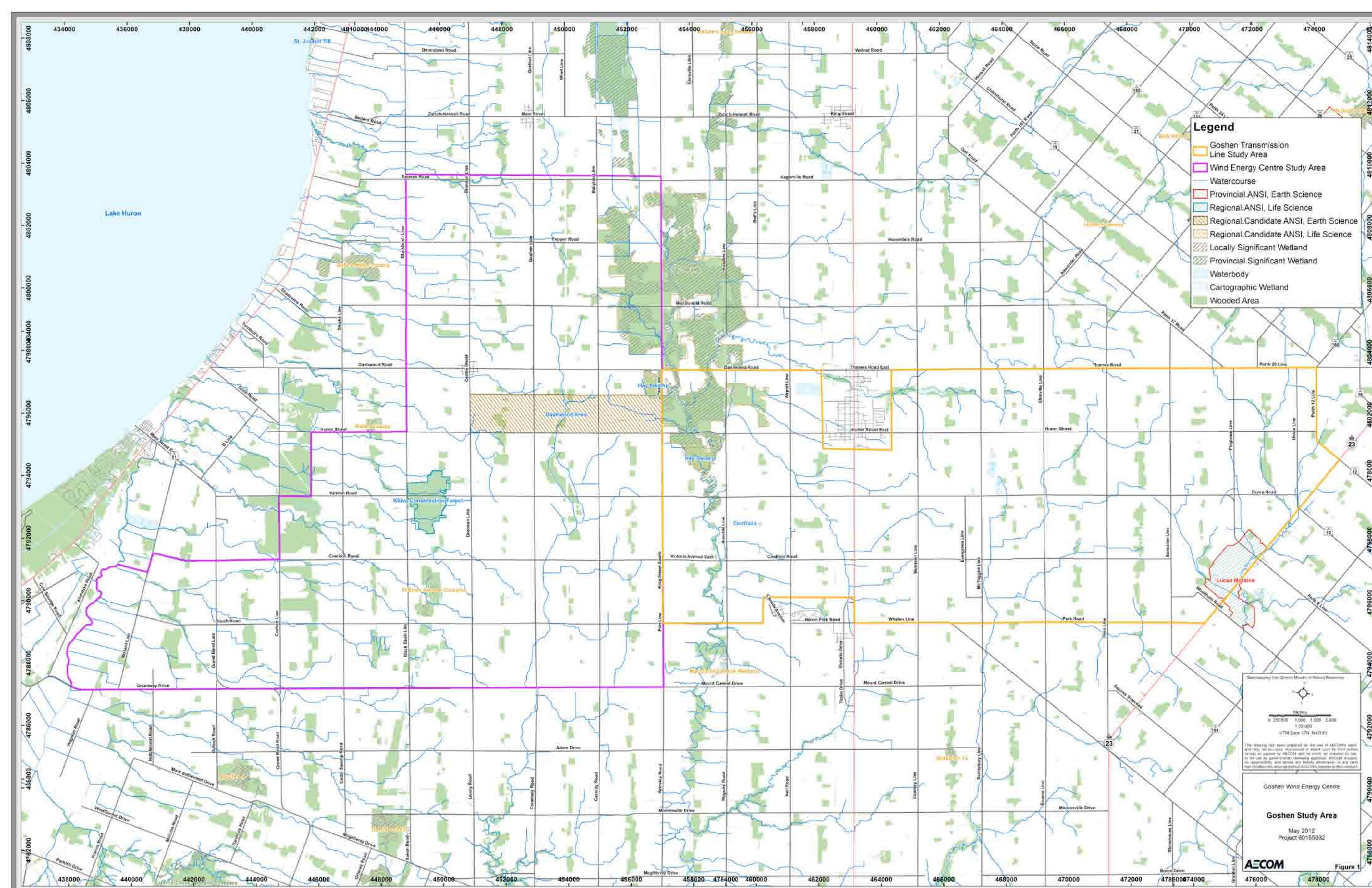


## The Goshen Project

- The proposed Goshen Wind Energy Centre project is located in the Municipalities of Bluewater and South Huron in Huron County, Ontario
- The project will be able to generate up to 102-megawatts of electricity, enough energy for nearly 25,500 homes in Ontario
- Up to 63 1.6-megawatt turbines will be constructed; however, up to 71 turbines will be permitted through the Renewable Energy Approvals process

Facility components for the Goshen Wind Energy Centre will include:

- ✦ Laydown and storage areas (including temporary staging areas) for construction equipment and supplies
- ✦ Underground electrical collection lines (on private property and in the municipal right-of-way) to connect the turbines to the transformer substation
- ✦ A transformer substation to feed the electricity generated by the project directly into the existing 115 kV transmission line in the study area
- ✦ Access roads for construction and maintenance
- ✦ Permanent meteorological towers to measure wind speeds, wind direction, temperature and humidity during operation
- ✦ A transmission line to transport electricity from the wind project to the switchyard
- ✦ An operations and maintenance building





## Your Concerns... Our Response

### **Q: How much noise will there be from turbines?**

*A: Wind projects must show that they meet the sound limit requirements prescribed by the Ministry of Environment. For non-participating residences (those that are not a part of the project) the sound limit is 40 decibels (dBA). This is quieter than many sources of sound within a home (i.e., 40 dBA is about halfway between a whisper and a normal conversation between two people less than a metre apart). Sound from a wind turbine diminishes over distance, as such; NextEra meets or exceeds the 550 metre minimum setback distance required by the Province between wind turbines and dwellings.*

### **Q: What effects will there be on wildlife? (e.g. birds, bats etc)**

*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 risks are there to my health from turbines?**

*A: There is little credible evidence to support any links between wind turbines and adverse effects on human health either related to noise or shadow flicker. NextEra will have a Complaint Resolution Process in place to address any concerns related to the project that may arise.*

### **Q: What risks are there to my health from transmission lines?**

*A: It is very unlikely that electro-magnetic fields (EMF) from high voltage power lines will have any effect on health. The EMF from power lines and transformer boxes are much weaker than those from normal household appliances.*



## Your Concerns... Our Response

**Q: I am concerned about the effect 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: What will it cost to decommission the turbines?**

*A: The decommissioning costs will be established through the Renewable Energy Approval process which will specify the requirements for a decommissioning plan and incorporate them in the permit under O.Reg. 359/09. The public will have an opportunity to provide input and comment on the plan that will be apart of the application filed with the Ministry of the Environment. The project owner will be responsible for the cost of the decommissioning.*

**Q: I have concerns about the impact on the landscape from the turbines.**

*A: The visual impact of any development is highly subjective. Through our consultation we will present visualizations of our proposed development for public comment and feedback that may result in changes that would make the development more visually appealing.*

**Q: I am concerned that wind turbines may prove distracting to motorists.**

*A: NextEra is unaware of any issues regarding our wind turbines causing distractions to drivers. We will ensure that we adhere to the guidelines put in place by the Ministry of Environment regarding setbacks from the road.*

**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.**





## 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



## 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 groups, and government agencies
4. Identify locations to site project infrastructure by balancing these technical and environmental constraints while adhering to the setback distances prescribed by the Province (i.e., Ontario Regulation 359/09) as identified in **Table 1** below. Project components can be sited within the setbacks for some terrestrial features provided that an Environmental Impact Study is completed and mitigation measures identified.

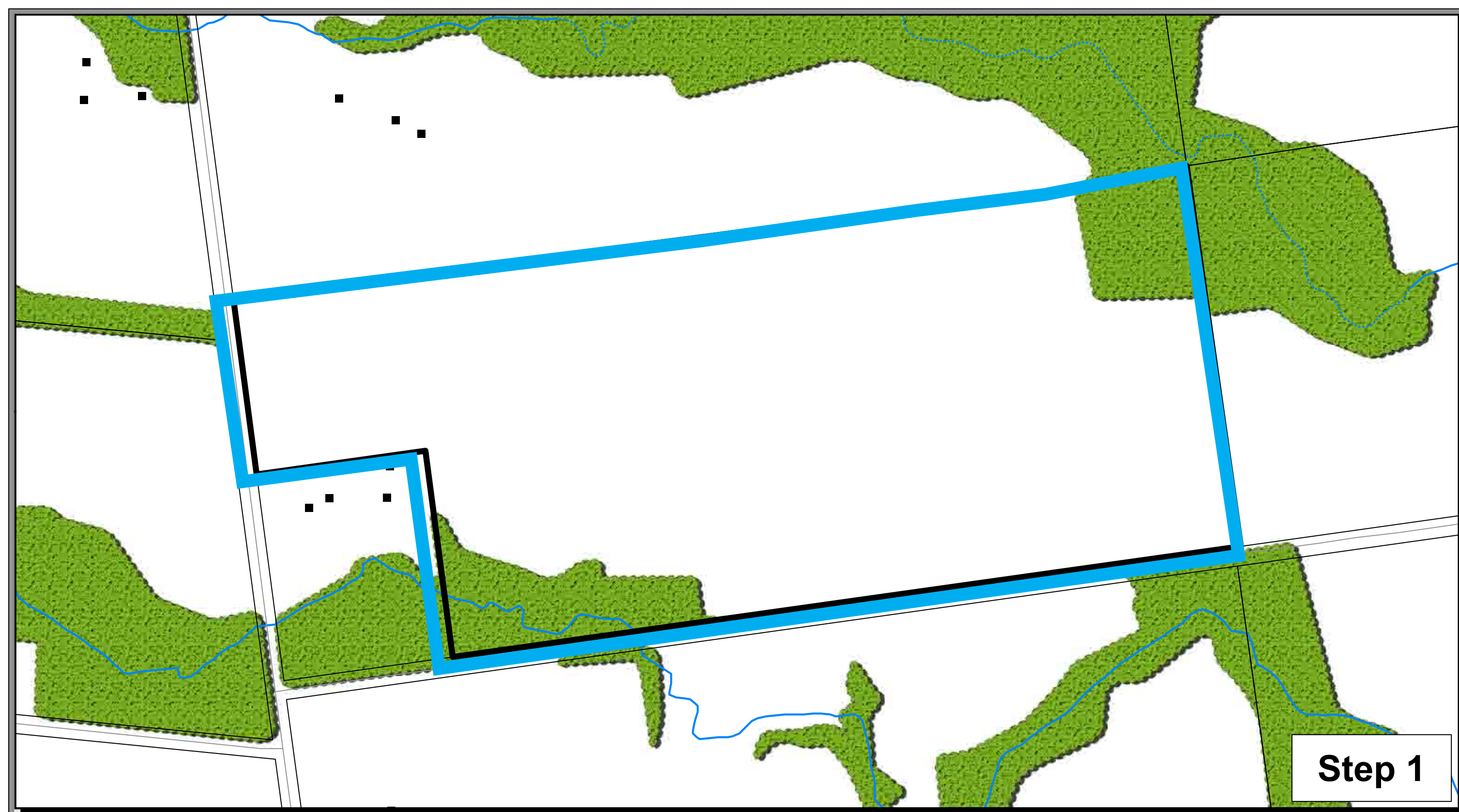
**Table 1. Turbine Siting Process Constraint Categories**

Constraint Category	Setback Distance*
Terrestrial Features	<ul style="list-style-type: none"> <li>• Area of Natural and Scientific Interest (ANSI) Earth Science: 50m</li> <li>• ANSI Life Science: 120m</li> <li>• Significant Wildlife Habitat: 120m</li> <li>• Significant Woodlands and Valleylands: 120m</li> <li>• Provincially Significant Wetland: 120m</li> </ul>
Aquatic Features	<ul style="list-style-type: none"> <li>• Streams and Waterbodies: 30m</li> </ul>
Local Infrastructure	<ul style="list-style-type: none"> <li>• Petroleum Resource Facilities: 75m</li> <li>• Road Right-of-Way: 60m</li> <li>• Railway Right-of-Way: 60m</li> </ul>
Socio-Economic	<ul style="list-style-type: none"> <li>• Property Line: 60m</li> <li>• Residents and other uses sensitive to noise: 550m</li> </ul>

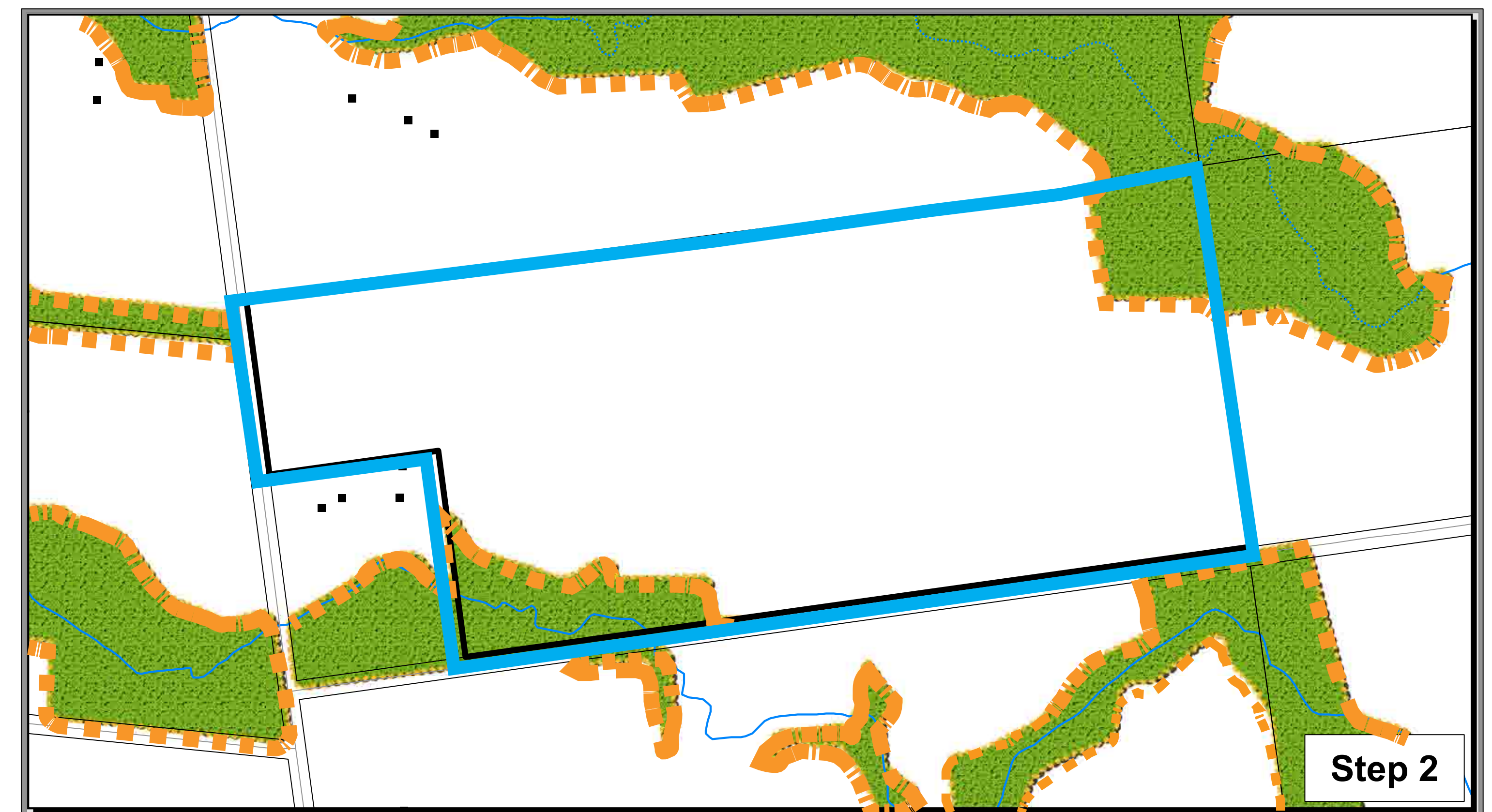
\* Note that other setback requirements may be applicable to the projects (e.g. aerodromes, pipelines, and Ministry of Transportation setbacks, etc.)



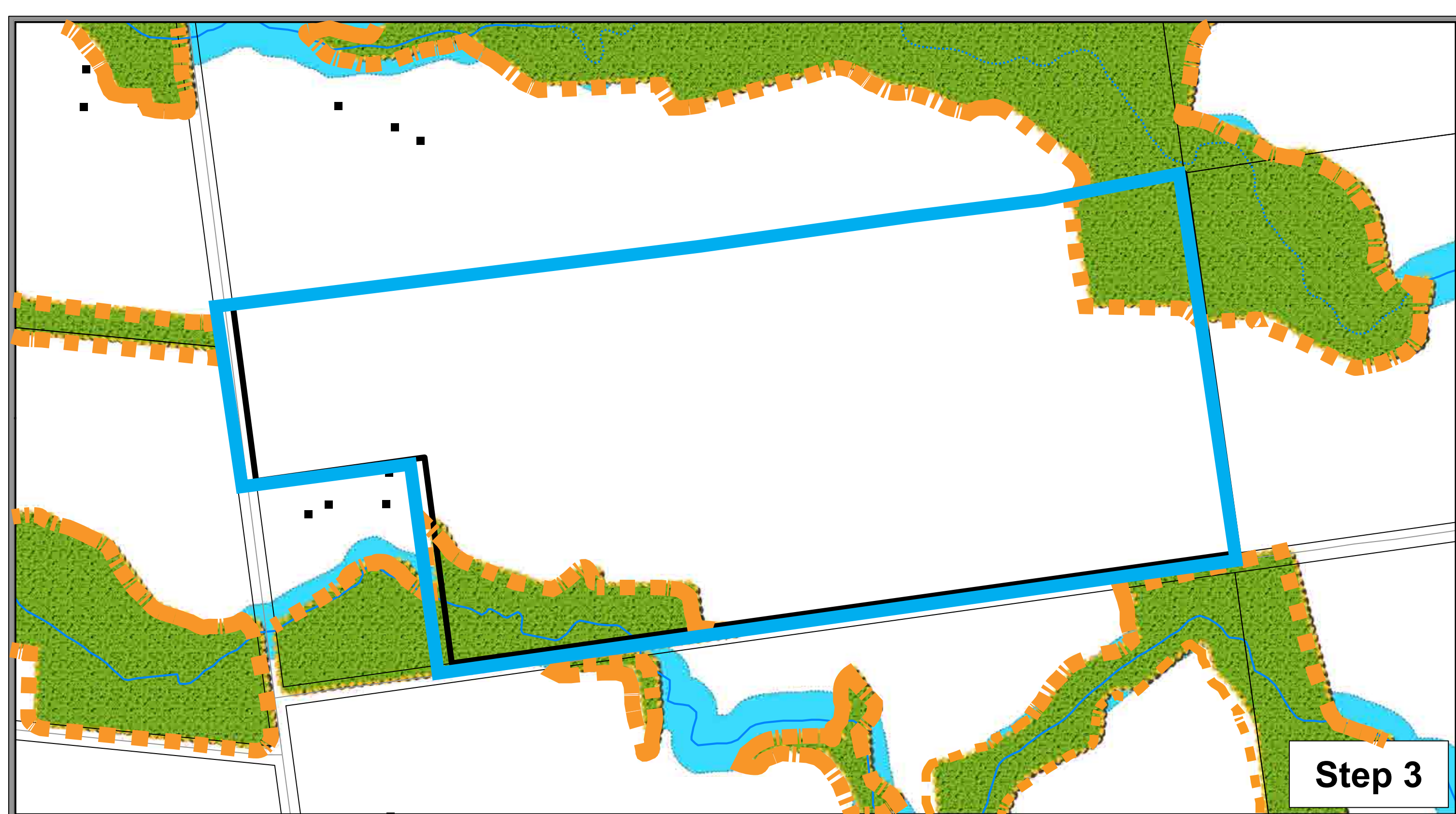
## Turbine Siting Process



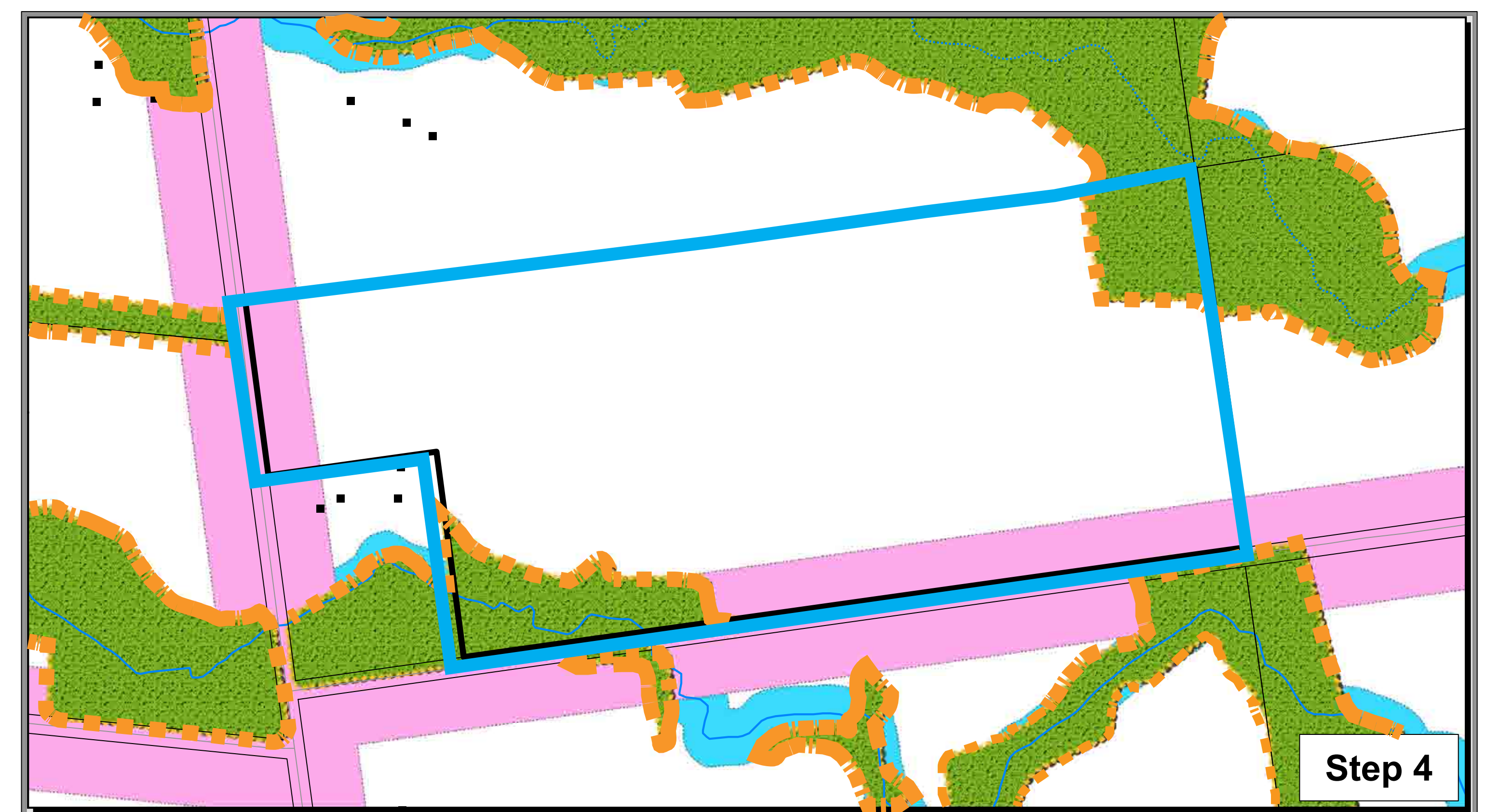
Step 1: Work with local landowners to option land



Step 2: Identify terrestrial constraints



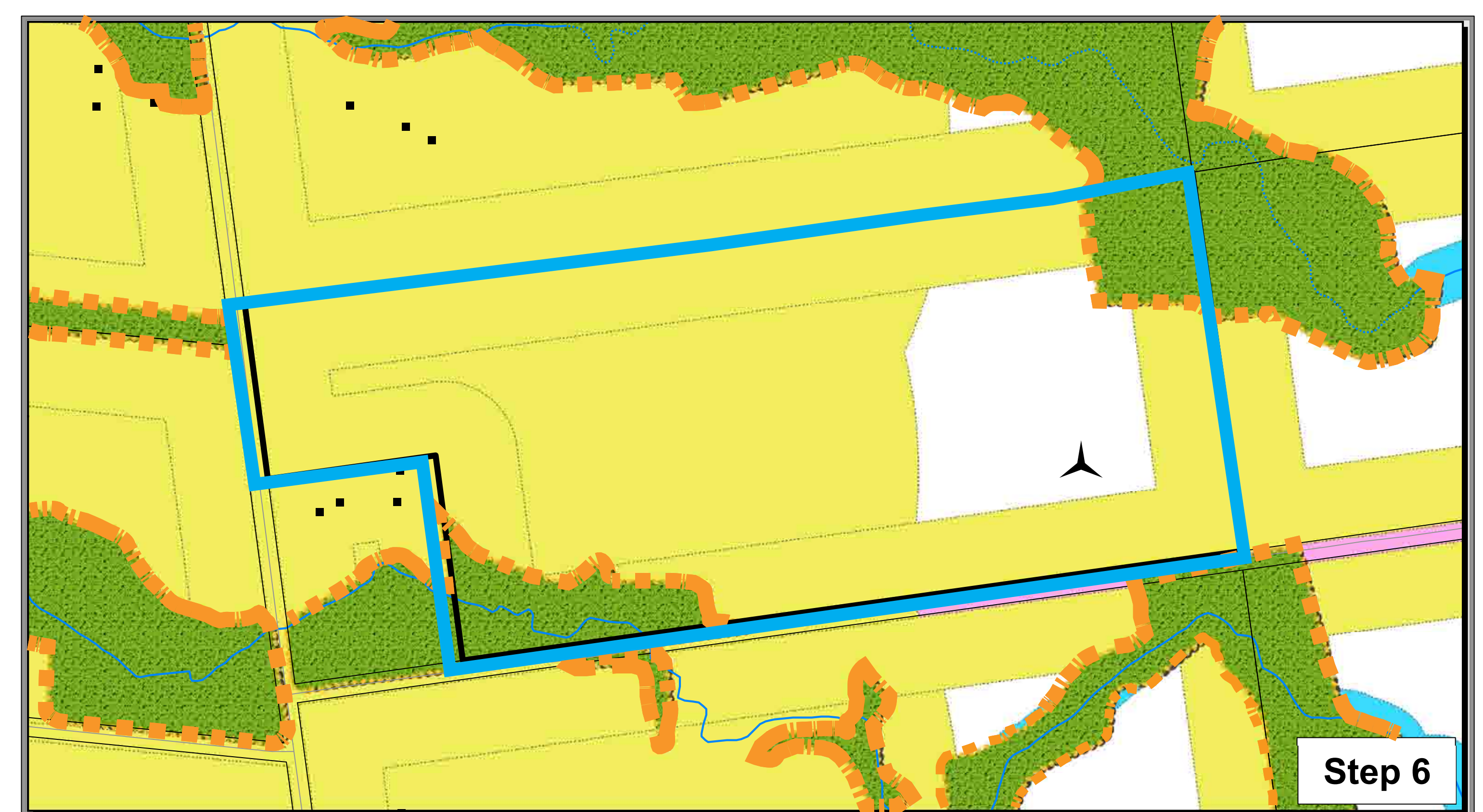
Step 3: Identify aquatic constraints



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 Line

### Transmission line - Why is it needed?

- Deliver clean energy to the Ontario system operator to reduce the use of fossil fuel generated electricity by Ontarians.
- System studies indicate there is ample capacity at this point of interconnection without significant network upgrades.
- Investment in transmission infrastructure is needed in Ontario. The plan places no additional burden on our aging infrastructure or Ontario ratepayers.





## Transmission Route Overview

- NextEra Energy Canada will build a 115 kV electrical transmission line from the step-up transformer station to the connection point with the Provincial electricity grid.
- The transmission line will be located on private property or within existing road rights-of-way.
- 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 will occupy less than 5 acres of land and is the point of interconnect with the existing Hydro One transmission line.

### Selecting a Transmission Route

- Distance between the transmission line and existing structures is considered when selecting a route.
- Easement widths located on private property will vary between 33 - 200 feet (10 - 60 metres). Widths vary due to special features on a particular parcel.
- Existing land uses and the location of environmentally sensitive features are considered when choosing 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.
- Landowners will be paid a fair market value for the property subject to an easement.
- Compensation will be made for property damage caused during construction and operation of the transmission line (including crops).



## 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 – 27 metres (60 - 90 feet) in height. The transmission line will be mounted on existing or new hydro poles.
- A typical span between poles will be 91 – 182 metres (300 - 600 feet).
- Wherever practical, transmission and distribution will be co-located on a single pole.
- 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 2km 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; and
  - ✦ Birds, bat and wildlife studies
- Any additional studies that may be required as a result of route selection will be conducted prior to construction.



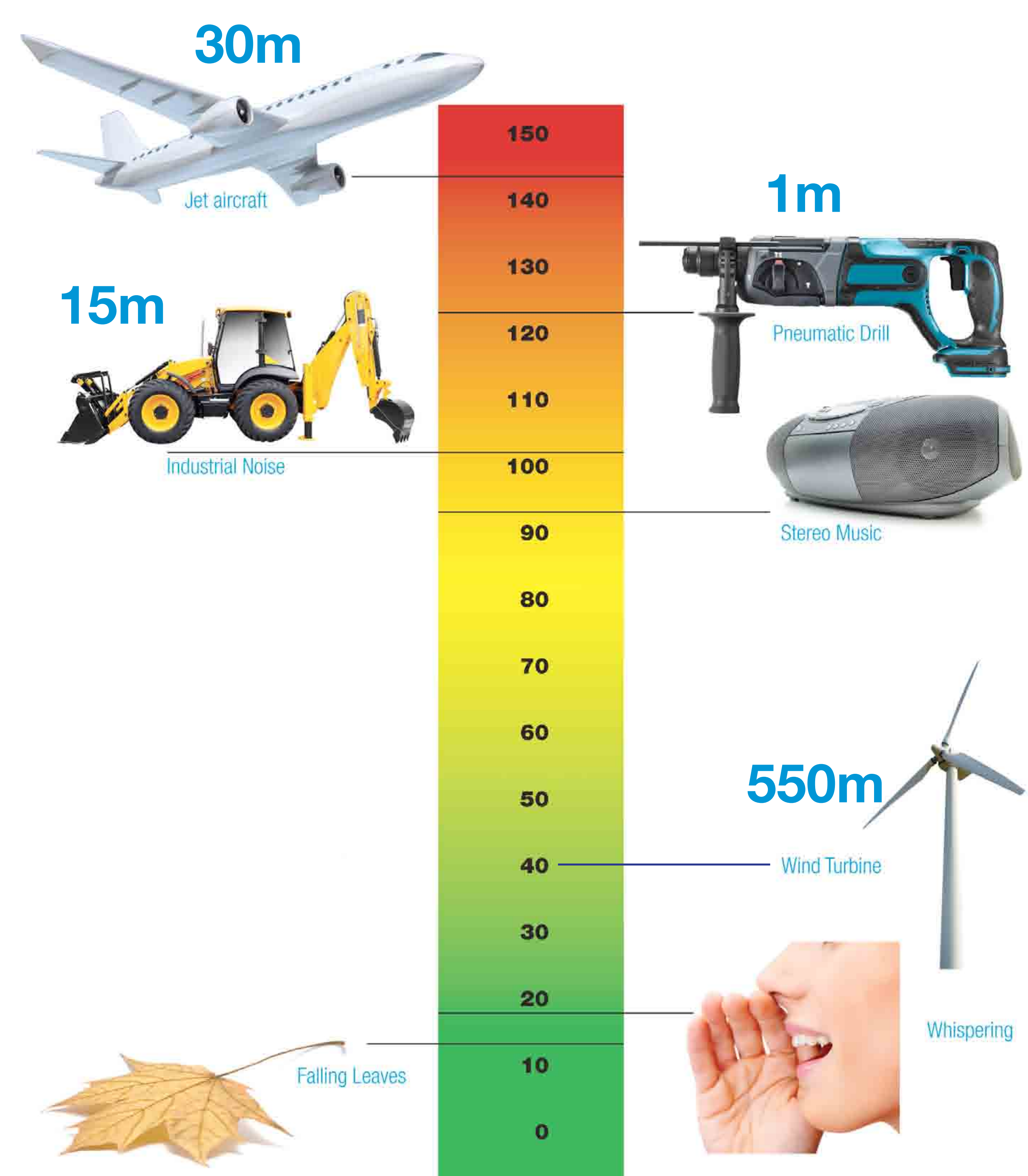
## Noise Studies

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 2km 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, turbine layouts will be revised 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 550m (1804ft) and must be at or below 40dBA.
- Noise from turbines must meet provincial noise limits as outlined in MOE publication 4709e “Noise Guidelines for Wind Farms”





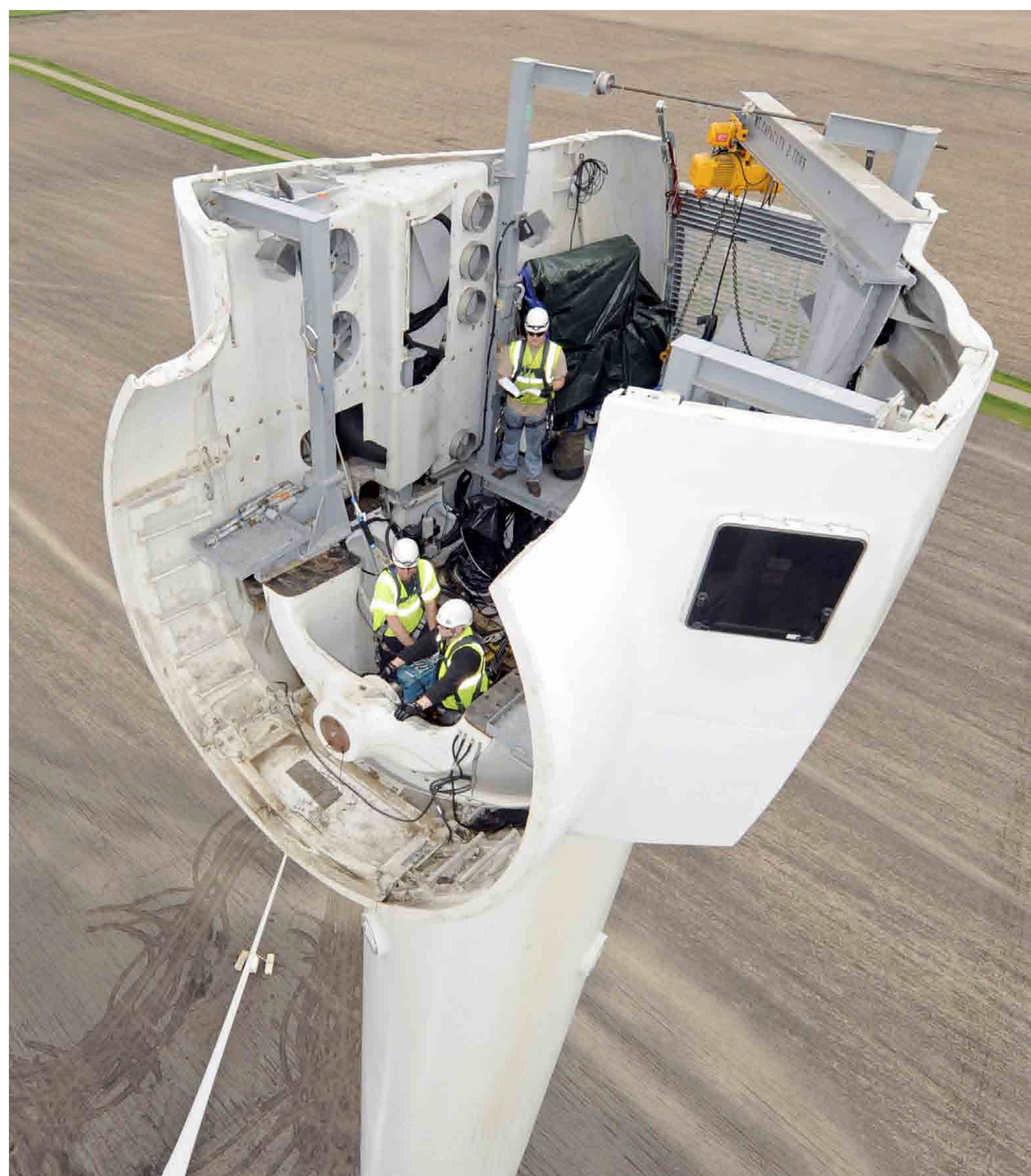
## Construction Plan

### 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 10 m (34 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 Plan

### 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 - 5 days per turbine
- ✦ Following commissioning, the area surrounding the turbine will be returned to its pre-construction state

### Operations and Maintenance Building:

- ✦ This building will be used to monitor the day-to-day operations of the wind farm and maintenance effort; Preferably, an existing building will be obtained for this purpose; otherwise, a new building will be constructed on privately held lands
- ✦ Potable water will be supplied by a well or through the municipal water system and if required, a septic bed will be constructed for the disposal of sewage
- ✦ These elements will be constructed in accordance with applicable municipal and provincial standards

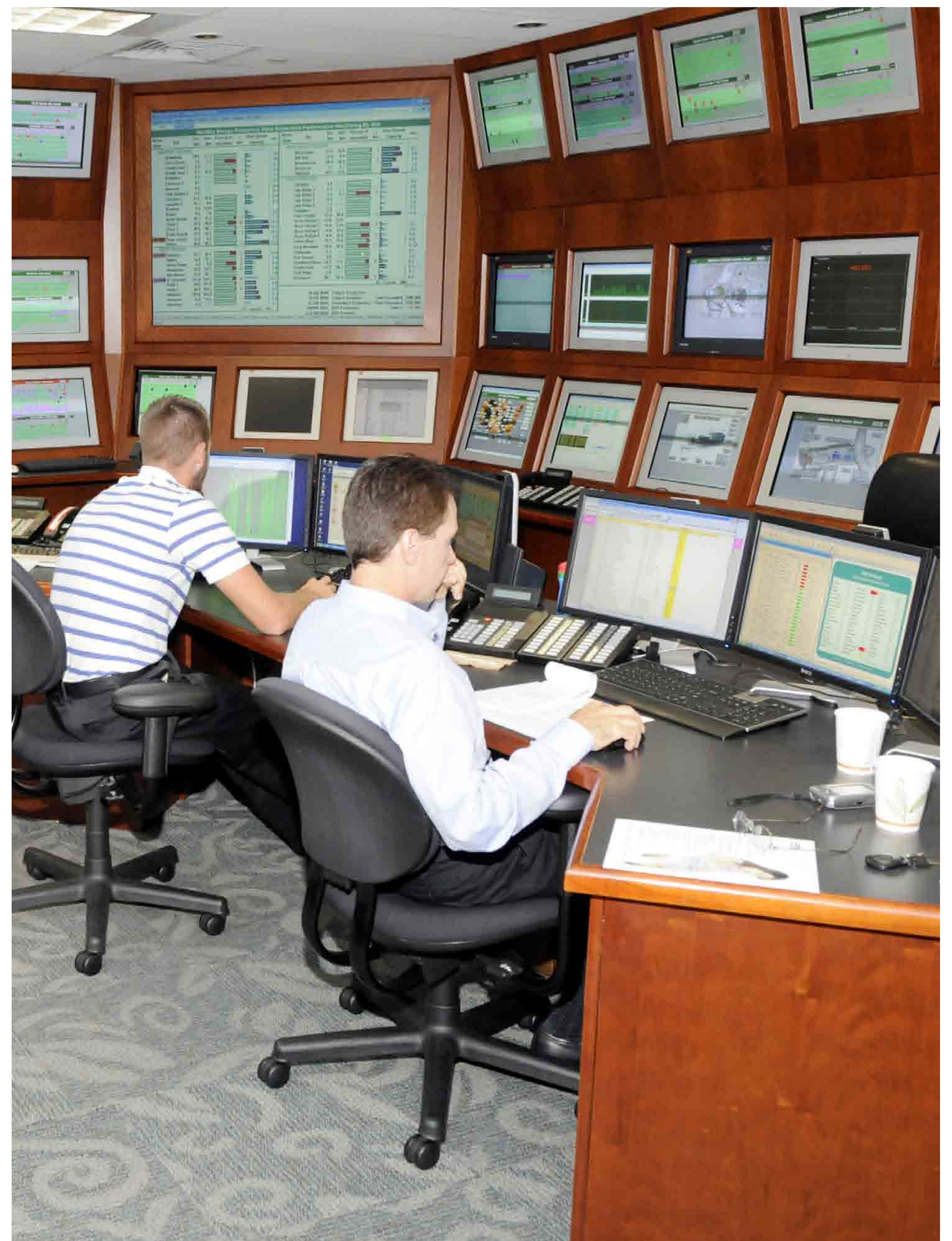




## Operations and Maintenance

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

- ✦ Experienced operations and maintenance managers on site
- ✦ 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





## Health and Wind Turbines

- Public health and safety will be considered during all stages of the Project.
- Many studies have been conducted world-wide to examine the relationship between wind turbines and possible human health effects.
- In Ontario *“Ontario doctors, nurses, and other health professionals support energy conservation combined with wind and solar power – to help us move away from coal”*

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

- In “The Potential Health Impact of Wind Turbines” (May 2010), Ontario’s Chief Medical Officer of Health examined the scientific literature related to wind turbines and public health, considering potential effects, such as dizziness, headaches, and sleep disturbance. The report concluded that:
  - ✦ “...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.”
  - ✦ The report also concluded that low frequency sound and infrasound from current generation upwind model turbines are well below the pressure sound levels at which known health effects occur. Further, the report states that there is no scientific evidence to date that vibration from low frequency wind turbine noise causes adverse health effects.
- Overall, health and medical agencies agree that sound from wind turbines is not loud enough to cause hearing impairment and is not causally related to adverse effects.\*
- Scientists and medical experts around the world continue to publish research in this area. Through our health consultants, NextEra is committed to staying informed on this issue.

\*e.g., Chatham-Kent Public Health Unit, 2008; Minnesota Department of Health, 2009; 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



## Natural Heritage: Water

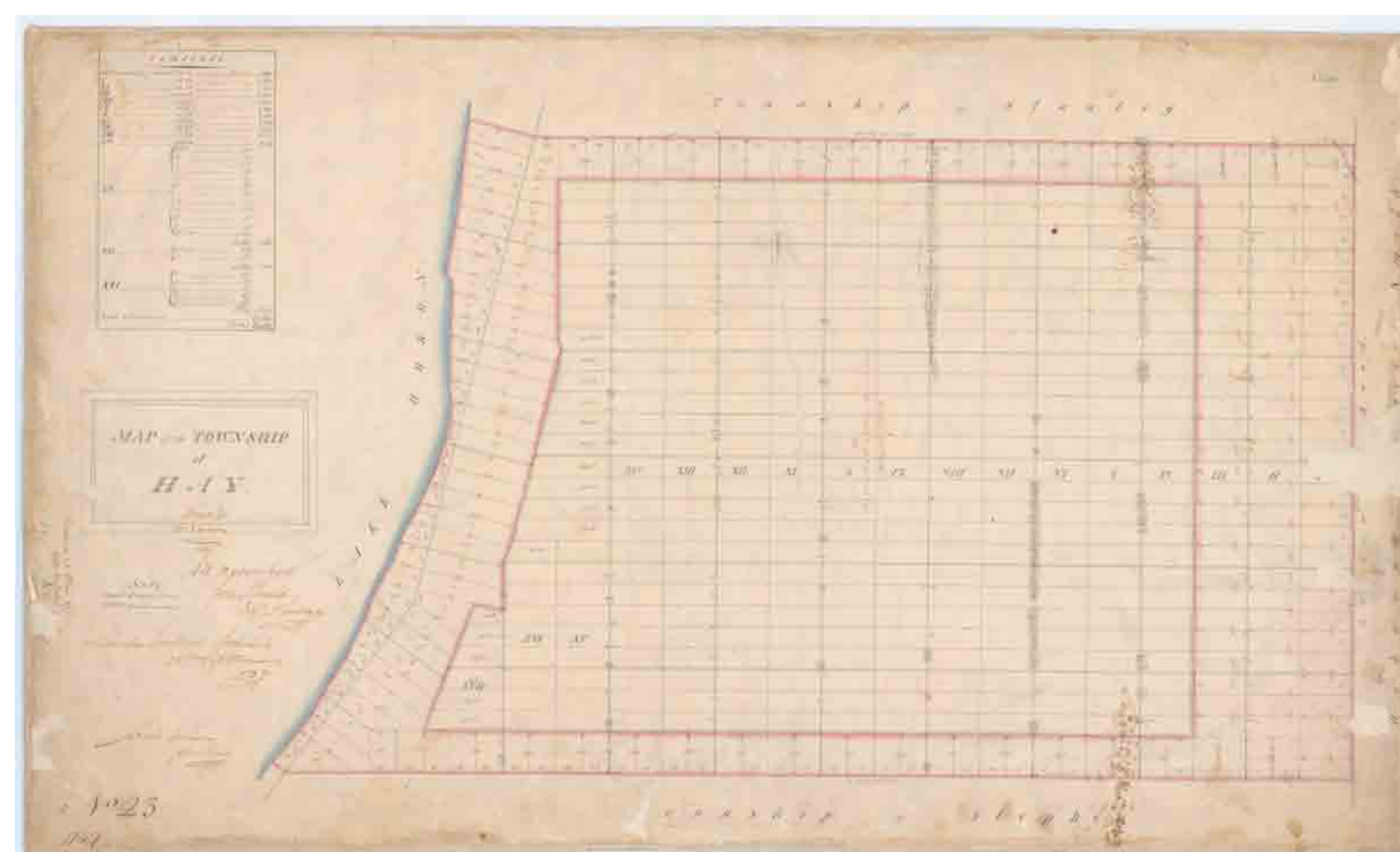
- Aquatic studies have been underway since the summer of 2011
- This work involves aquatic biologists visiting watercourses within 120 m (394 feet) of proposed project infrastructure and conducting investigations to:
  - ✦ Measure stream width and depth
  - ✦ Characterize vegetation cover, substrate 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 and the Ministry of Natural Resources (MNR)





## Cultural Heritage – Goshen Project

- 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
- Initial consultation determined that no protected properties are located within the Goshen Wind Turbine Siting area, and the study is ongoing in the Transmission Line Siting Area.
- 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



**Historical Mapping of Study Area**



## 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 2011 to record the number of bat passes
- These properties also required 10 nights of visual surveys, completed in mid-July 2011, which involved examining woodlands with spotlights and microphones to look for bat activity
- Bat monitoring was completed in accordance with the Ministry of Natural Resources “Bats and Bat Habitats: Draft Guidelines for Wind Power Projects (March 2010)” and will be reviewed by the Ministry of Natural Resources as part of the REA’s Natural Heritage Assessment requirements
- In July 2011, the MNR issued new guidelines “Bats and Bat Habitats: Guidelines for Wind Power Projects” with more specific criteria to evaluate bat habitat. Re-assessments of all woodlands within 120m of proposed infrastructure will be completed in summer 2012 according to the newly updated provincial regulations
- Findings from these studies will be considered in the wind farm design to minimize 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





## 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





## Thank you for Attending!

- Thank you for attending this evening's Event
- 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 this fall where we will present the final turbine layout, identify potential effects and mitigation measures
- Should you have any further questions or comments, please do not hesitate to contact us:

**E-mail:**

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## Our environmental consultants:

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