



# NEXTERA ENERGY CANADA, ULC SUMMERHAVEN WIND ENERGY CENTRE APPLICATION FOR A RENEWABLE ENERGY APPROVAL

# **Consultation Report**

#### Submitted to:

Director, Ministry of Environment 2 St. Clair West, Floor 12A Toronto, Ontario M4V 1L5

# REPORT



**Report Number:** 10-1151-0035

Distribution:

Ministry of Environment - 3 copies

NextEra Energy Canada, ULC - 3 copies

Air Energy TCI Inc. - 2 copies

Golder Associates Ltd. - 2 copies





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#### INTRODUCTION 1.0

This Consultation Report (the Report) has been prepared to provide information to the public, Aboriginal communities, municipalities and local authorities regarding the proposed Summerhaven Wind Energy Centre (the Project). The Report is a required component of an Application for a Renewable Energy Approval (REA Application) under Ontario Regulation (O. Reg.) 359/09<sup>1</sup> made under the Environmental Protection Act (EPA).

This Report has been prepared in accordance with O. Reg. 359/09 and Technical Bulletin Five: Guidance for Preparing the Consultation Report (MOE, 2010). Table 1 summarizes information to be included in the Report based on Table 1 of O. Reg. 359/09 and directs readers to the associated section(s) of this document.

Table 1: Consultation Report Requirements under O. Reg. 359/09

Requirement as per O. Reg. 359/09	Report section where information can be found
A summary of communications with any members of the public regarding the project	Section 3 and Appendix B
A summary of communications with any members of the aboriginal communities regarding the project	Section 5 and Appendix F
A summary of communications with municipalities regarding the project	Section 6
Evidence that the information required to be distributed to aboriginal communities under subsection 17(1) was distributed	Appendix F
Any information provided by an aboriginal community in response to a request made under paragraph 4 of subsection 17(1)	Appendix F
Evidence that a consultation form was distributed in accordance with subsection 18(1)	Section 6
The Municipal Consultation Form distributed under subsection 18(1), if any part of it completed by a municipality, Local Roads Board or Local Services Board	Appendix G
A description of whether and how comments from members of the public, aboriginal communities, municipalities, Local Roads Boards and Local Services Boards were considered by the person who is engaging in the project	Section 7 and Table 9
A description of whether and how the documents that were made available under subsection 16(5) were amended after the final public meeting was held	Section 7.1
A description of whether and how the proposal to engage in the project was altered in response to comments from the public, aboriginal communities and municipalities.	Section 7.2 and Table 10

Additional information about the Project can be found in the Construction Plan Report (Golder, 2011a), Design and Operations Report (Golder, 2011b), Decommissioning Plan Report (Golder, 2011c) and Project Description Report (Golder, 2011d). A description of the Site Plan design is provided in the Design and Operations Report.



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<sup>&</sup>lt;sup>1</sup> As amended by O. Reg. 521/10 which came into force on January 1, 2011.



As it is broadly applicable to all of the REA Reports, and to avoid redundancy, the Site Plan diagram has been provided as a stand-alone document (the Site Plan Report).

Technical studies associated with the REA Application requirements were initiated in 2007 and extended into 2010. Additional information about the Project and results of technical studies and assessments of negative environmental effects are available in the following reports:

- Wind Turbine Specifications Report (Golder, 2011e);
- Natural Heritage Assessment Report (Golder, 2011f);
- Stage 1 Archaeological Assessment Report (Golder, 2010a);
- Heritage Assessment Report (Golder, 2010b);
- Noise Study Report (Golder, 2011g);
- Water Assessment Report (Golder, 2011h);
- The Site Plan Report (Golder, 2011i); and
- Consultation Report (this Report).

Stage 2, Stage 3 and Stage 4 Archaeological Assessment Reports are not required as part of the REA Application for this Project (Ministry of Energy and Infrastructure, 2010) and are typically not publically available documents due to the confidential nature of the content. Stage 2, Stage 3 and Stage 4 Archaeological Assessment Reports will however be made available to the Ministry of Tourism and Culture (MTC) for review and their issuance of a Comment Letter in advance of construction and hard copies of this information will be provided to Aboriginal communities with an interest in the Project, as identified by the Director, and as agreed to by individual Aboriginal communities.

# 1.1 Project Summary

The Summerhaven Wind Energy Centre is currently being proposed by NextEra Energy Canada. The Project was originally two separate projects; the Nanticoke Wind Farm (Air Energy TCI Inc) and the Summerhaven Wind Farm (NextEra Energy Canada). In November of 2009, Air Energy TCI Inc sold all rights of the Nanticoke Wind Farm to NextEra Energy Canada.

The Project consists of the site preparation, construction, operation, and decommissioning of 59 wind turbine generators with a total installed nameplate capacity of 131.04 MW. The Project will be owned and operated by NextEra Energy Canada, ULC (NextEra Energy Canada) and will be located in the vicinity of Nanticoke, Haldimand County, Ontario (Figure 1). The Project lifespan from obtaining the REA Approval to the end of Decommissioning is estimated to be 27 years.

Turbine towers will be constructed on a concrete foundation. Underground and overhead cables will interconnect individual turbines and eventually connect to the substation (see Site Plan Report). The operation of the wind turbines will be monitored remotely from a Project operations building located near the substation. Once tested and commissioned, the turbines will require scheduled visits for maintenance during the Operations Phase.





Maintenance will include complete inspection of the turbine's components and the tower, functionality testing, replacement of worn parts, bolt tightening and lubrication of moving parts. Routine preventative maintenance activities will be completed as per manufacturer requirements.

The Project Area (Figure 1) encompasses approximately 22,583 ha of privately owned land parcels. Land use is predominantly cash-crop agriculture (i.e., farming for corn, soybeans, wheat), although some areas are pasture (predominantly for cattle) and several wooded areas are present. Selkirk Provincial Park and Haldimand Conservation Area are located along the shore of Lake Erie south of the Project Area. The Grand River runs northeast of the Project Area and an Imperial Oil refinery is directly southwest.

The location of the Project was predicated by interest expressed by local landowners. Haldimand County is also attractive for wind development due to its proximity to Lake Erie, which results in favourable wind conditions for wind power production.





Figure 1: Project Area



#### 2.0 NOTIFICATION

Notices were prepared according to the template provided in *Technical Bulletin Five: Guidance for Preparing the Consultation Report* (MOE, 2010) and were distributed in accordance with O. Reg. 359/09. For some notices the extent of notification covered a larger physical area of distribution than required.

# 2.1 Combined Notice to Engage in a Project and Notice of First Public Meeting

The Notice of Proposal to Engage in a Project was combined with the Notice of First Public Meeting, as permitted in O. Reg. 359/09. A copy of the combined Notice is provided in Appendix A. The Notice was advertised over a two week period, on two separate days, in each local municipality. The first advertisement was published on November 13, 2009 more than 30 days before the meeting on December 21, 2009. The Notice was also posted on TCI Renewables' website (www.nanticokewindfarm.ca). A direct mailing of the Notice was coordinated and included assessed landowners, municipal clerks, Aboriginal communities and key stakeholders. An unaddressed mailing of the Notice, based on postal code listed in Table 2 was sent. Table 2 provides a summary of the Notice distribution to required recipients. Additional recipients were included and are detailed in the mailing list provided in Appendix A. Communications with Aboriginal communities are outlined in Appendix F.

Table 2: Distribution of Combined Notice to Engage and First Public Meeting

Date	Distribution	Recipient
	Notice published in Haldimand Press	
November 13, 2009	Notice published in Port Dover Maple Leaf	Residents of local municipality
	Notice published in Simcoe Reformer	
	Assessed Landowner Mailing	Mailing list of every assessed landowner within 120 m of the Project Location provided by Haldimand County
November 17, 2009	Unaddressed Postal Code Mail Drop	Cayuga N0A 1E0 Fisherville N0A 1G0 Hagersville N0A 1H0 Jarvis N0A 1J0 Nanticoke N0A 1L0 Ohsweken N0A 1M0 Selkirk N0A 1P0
	Direct Mailing of Notice	Haldimand County Clerk





Date	Distribution	Recipient
		Haldimand-Norfolk-Brant Clerk
		Norfolk County Clerk
		Ministry of the Environment (Environmental Assessment and Approvals Branch)
		Ministry of the Environment (Hamilton Regional Office)
	Notice published in Haldimand Press	
November 20, 2009	Notice published in Port Dover Maple Leaf	Residents of local municipality
	Notice published in the Simcoe Reformer	

# 2.2 Notice of Final Public Meeting and Publication of Draft Reports

The Notice of Final Public Meeting was advertised in six different local newspapers on two separate days over a two week period to notify selected residents in the municipality. A copy of the Notice is provided in Appendix A. Draft reports were made available for public review at the Cayuga Administrative Building, Cayuga, Ontario, and online at www.CanadianWindProposals.com beginning October 6, 2010. The first weeks' advertisement was also published in six different local newspapers more than 60 days before the December 7, 2010 meeting. The advertisement was also posted on the proponent's website www.CanadianWindProposals.com. A direct mailing of the Notice was to selected landowners noted in Table 3, the Haldimand County clerk, Aboriginal communities identified by the Director and key stakeholders. An unaddressed mailing of the Notice was sent to households and businesses in the local municipality based on postal code identified in Table 3. Communications with Aboriginal communities regarding the Final Public Meeting and Reports are outlined in Appendix F.

Table 3: Distribution of Notice of Report Publication and Final Public Meeting

Date	Distribution	Recipient
0.110.0040	Notice published in Haldimand Press	Residents of local municipality
October 6, 2010	Notice published in Port Dover Maple Leaf	





Date	Distribution	Recipient
	Notice published in Simcoe Reformer	
	Notice published in Dunnville Chronicle	
	Notice published in Glanbrook Gazette	
	Notice published in Grand River Sachem	
	Assessed Landowner Mailing	Same landowners as sent Notice of First Public Meeting
	Unaddressed Postal Code Mail Drop	Cayuga N0A 1E0 Fisherville N0A 1G0 Hagersville N0A 1H0 Jarvis N0A 1J0 Nanticoke N0A 1L0 Ohsweken N0A 1M0 Selkirk N0A 1P0
		Haldimand County Clerk
	Direct Mailing of Notice	Haldimand-Norfolk-Brant Clerk
		Norfolk County Clerk
	Notice published in Haldimand Press	
	Notice published in Port Dover Maple Leaf	
November 6, 2010	Notice published in Simcoe Reformer	Residents of local municipality
140vember 0, 2010	Notice published in Dunnville Chronicle	
	Notice published in Glanbrook Gazette	1
	Notice published in Grand River Sachem	1
December 1, 2010	Unaddressed Postal Code Mail Drop	Cayuga N0A 1E0 Fisherville N0A 1G0 Hagersville N0A 1H0





Date	Distribution	Recipient
		Jarvis N0A 1J0 Nanticoke N0A 1L0 Ohsweken N0A 1M0 Selkirk N0A 1P0
December 1, 2010	Direct Mailing of Notice	Assessed Landowners Self-identified Stakeholders Key Stakeholder Groups Optioned Lot Landowners
		Ministry of the Environment (Environmental Assessment and Approvals Branch)
		Ministry of the Environment (Hamilton Regional Office)

# 2.3 Notice of Additional Final Public Meeting

Advertisements were placed in seven different local newspapers to notify selected residents in the municipality. A copy of the Notice is provided in Appendix A. The Notice of Additional Public Meeting was advertised using the methods described in Section 2.2. Specifics of this notification are detailed below. A direct mailing of the Notice was sent to selected landowners noted in Table 4, optioned lot landowners, Haldimand County, Norfolk County, Haldimand-Norfolk-Brant municipality, Aboriginal communities identified by the Director and key stakeholders. An unaddressed mailing of the Notice was sent to households and businesses in the local municipality based on postal code identified in Table 4. Communications with Aboriginal communities are outlined in Appendix F. Table 4 provides a summary of the Notice distribution.

Table 4: Distribution of Notice of Additional Final Public Meeting

Date	Distribution	Recipient
December 7, 2010	Notice published in Simcoe Reformer	Residents of local municipality
	Notice published in The Haldimand Press	
December 8, 2010	Notice published in Turtle Island News	
D0001111011 0, 2010	Notice published in Port Dover Maple Leaf	
	Notice published in The Dunnville Chronicle	
December 9, 2010	Notice published in Grand River Sachem	
	Notice published in Glanbrook Gazette	
December 21, 2010	Unaddressed Postal Code Mail Drop	Fisherville N0A 1G0 Jarvis N0A 1J0 Nanticoke N0A 1L0 Selkirk N0A 1P0
	Direct Mailing of Notice	Assessed Landowners





Date	Distribution	Recipient
		Self-identified Stakeholders Key Stakeholder Groups Optioned Lot Landowners
		Haldimand County
		Haldimand-Norfolk-Brant
		Norfolk County
		Ministry of the Environment (Environmental Assessment and Approvals Branch)
		Ministry of the Environment (Hamilton Regional Office)

#### 3.0 COMMUNICATIONS WITH THE PUBLIC

NextEra Energy Canada provided а phone number (1-877-257-7330) and email (summerhaven.wind@nexteraenergy.com) address for members of the public to call them, ask questions and express support or concerns about the Project. Where a response required technical information, NextEra Energy Canada kept in communication with the stakeholder to let them know their questions were being addressed. Table 5 provides a summary of the multiple one-on-one communications and correspondence between NextEra Energy Canada and individual members of the public. The final communication shown in Table 5 reflects NextEra's commitment to communicate with all Project stakeholders regarding their concerns. Detailed responses and sources for further information about concerns were provided in an 8-page letter sent to approximately 400 addresses. Detailed communications records beginning with responses to the Notice of Proposal to Engage in a Renewable Energy Project (November 2009) are provided in Appendix B.

**Table 5: Summary of Communications with Individuals** 

Date	Communication Summary
June 4, 2009	Received email requesting information regarding setbacks
June 5, 2009	Received email requesting more information about the Project
June 13, 2009	Received email in support of the Project
June 15, 2009	Received email asking about turbine locations and why site was chosen
June 17, 2009	Received call regarding concerns about wind turbines and health
June 25, 2009	Received email asking for additional information about the Project location
June 26, 2009	Received email regarding how the Project may affect properties
July 1, 2009	Received email asking about employment opportunities related to the Project





Date	Communication Summary	
July 12, 2009	Received email requesting technical specifications of turbines	
July 20, 2009	Received email asking about potential health effects and turbine setbacks	
July 24, 2009	Received letter supporting the Project	
August 4, 2009	Received call regarding concern related to potential turbine noise impacts	
November 16, 2009	Received voicemail about optioning land	
November 25, 2009	Discussed possibility of offshore wind turbines	
	Received email offering welding mechanical assistance	
November 26, 2009	Discussed concerns about Project siting/location	
	Received voicemail offering assistance on Project	
	Received email stating support for the Project	
November 27, 2009	Received voicemail requesting information on NextEra Energy Canada	
	Discussed interest in optioning land	
December 7, 2009	Received letter of support	
December 19, 2009	Received email offering land for testing	
December 21, 2009	First Public Meeting Comments	
January 11, 2010	Received email regarding concerns about turbine siting	
January 12, 2010	Received voicemail offering assistance in finding a contractor	





Date	Communication Summary
January 23, 2010	Received email with concerns about visual, noise, vibrations, and property values
March 22, 2010	Sent information requested during First Public Meeting regarding property values, health and stray voltage
	Sent information requested during First Public Meeting regarding property values, health and stray voltage
June 18, 2010	Discussed about the Project, e-house and stakeholder's company
October 7, 2010	Received email regarding contracts and Aboriginal consultation
	Received email regarding turbine siting on their property
	Sent email addressing concerns about turbine siting
	Discussed concerns about property values and noise
	Discussed concerns about birds and construction
	Sent Project summaries
	Received email requesting Project map
	Discussed concerns about school, noise and setbacks
October 8, 2010	Received email about turbine siting and property values
	Sent email addressing concerns about turbine siting and property values
October 12, 2010	Received email with concerns about setbacks
October 22, 2010	Discussed concerns about property values





Date	Communication Summary
	Sent noise studies information
	Discussed concerns about noise - follow up
November 23, 2010	Discussion concerns about turbine locations and setbacks
November 26, 2010	Received phone call requesting a Notice to the Final Public Meeting
	Mailed Notice to the Final Public Meeting
No	Discussed concerns about visual impact, health and property values
November 30, 2010	Discussed concerns about turbine locations, property values, flicker and noise
December 1, 2010	Received email with concerns about noise
	Responded to inquiry about Noise Study Report
December 2, 2010	Received phone call concerns about property values and health
December 2, 2010	Discussed concerns about property values and turbine locations
December 3, 2010	Received email about property values, visual and health concerns
December 6, 2010	Received email about property values, noise and health
	Sent email response about property values, noise and health
December 7. 2010	Received letter about setback and property value concerns





Date	Communication Summary
	Received email about property values, health and stray voltage
	Second Public Meeting comments
December 8, 2010	Received email about property value concerns and compensation
	Received email about the reliability and cost of wind power
December 9, 2010	Bald Eagle and notification discussion
	Landowner compensation and notification discussion
December 10, 2010	Received email about property values, human health and noise
	Discussed concerns about noise
December 13, 2010	Received email requesting the County to answer his questions/concerns
	Received email seeking clarification in Project details
December 14, 2010	Received email requesting Notice of Additional Public Meeting
December 16, 2010	Received email about vibration and Project construction details
December 23, 2010	Received email about mines, vibration and Project construction
December 29, 2010	Received email about archaeology studies
December 30, 2010	Discussed construction materials and construction plans





Date	Communication Summary
January 7, 2011	Discussed inquiry about construction status
	Discussed concerns about property values and visual impacts
January 7, 2011	Copy of discussion between stakeholder and MPP Toby Barrett received
January 10, 2011	Additional Final Public Meeting comments
January 13, 2011	Received email about with concerns about health, property values, and bird/bat studies
	Received email about taxes and wind power costs
January 14, 2011	Received email about the environment, health, flicker and property values
	Received email about the environment, health, flicker and property values
	Received email about contracts, setbacks, flicker and property values
	Received email about the environment, health, flicker and property values
	Received email concerns about setback distance, noise, property values, and health
	Received email about the environment, health, flicker and property values
January 17, 2011	Received email about visuals, property values and health concerns
January 21, 2011	Received phone call regarding project status
February 4, 2011	Sent noise study information (regarding December 1, 2010 request)





Date	Communication Summary
February 8, 2011	Sent noise and health information (regarding December 10, 2010 request)
February 10, 2011	Sent turbine siting and noise information (regarding December 13, 2010 request)
March 3, 2011	Sent letter to each individual on stakeholder list with responses to common concerns
March 11, 2011	Received phone call regarding property value concerns; returned call March 13, 2011
March 16, 2011	Received phone call regarding location of project infrastructure; returned call March 20, 2011
March 16, 2011	Received email regarding property values, shadow flicker, health impacts. Responded March 21, 2011
March 18, 2011	Received email about Project Construction (turbine foundation)
March 21, 2011	Responded to Project Construction inquiry (regarding March 18, 2011)
March 24, 2011	Received letter regarding noise, setbacks, wildlife, gas wells, turbine structure, health impacts. Responded May 18, 2011

#### 4.0 PUBLIC MEETINGS

Three public meetings were held to share information about the Project. The meetings were organized in an open house format, with display boards arranged throughout the venue and a number of staff from NextEra Energy Canada and the Project team on hand to answer questions.

# 4.1 First Public Meeting

On December 21, 2009 the first Public Meeting for the Project was held in Haldimand County at the Jarvis Community Centre in Jarvis, Ontario. The purpose of the meeting was to share the details about the Project including the Draft Project Description Report and to invite comments from the public. As noted in Section 2, Notices were sent to meet regulatory requirements, and included newspapers/advertisements, addressed mailings to landowners and a postal code mail drop.



#### 4.1.1 Handouts

A variety of handout materials were made available at the Public Meeting. Handout materials made available by NextEra Energy Canada included:

- The Project;
- NextEra Energy Canada and NextEra Energy Resources;
- Human Health;
- Stray Voltage;
- Misperceptions about Wind;
- Community Benefits;
- Property Values; and
- Low Frequency Noise.

Copies of the Draft Project Description Report (Version 1) were on hand for discussion. Copies of the key handouts provided are included in Appendix C.

#### 4.1.2 Display Panels

Team members from NextEra Energy Canada, NextEra Energy Resources, Air Energy TCI, Bedford Consulting, IBI Group and Golder Associates were available to explain the information on the display panels and in the handouts, and respond to questions. A total of 22 panels were posted and included information on:

- Welcome;
- About NextEra Energy Canada and Air Energy TCI;
- The Project;
- Why We Are Here;
- Project Schedule;
- Benefits of Wind;
- Turbine Specifications;
- Construction;
- Design and Operations;
- Decommissioning;
- Renewable Energy Regulation (O. Reg. 359/09);
- Natural Heritage water;
- Natural Heritage birds;





- Natural Heritage bats;
- Noise Studies;
- Archaeology and Heritage; and
- Public Consultation.

Copies of the panels, reduced in size for reporting purposes, are included in Appendix C.

#### 4.1.3 Attendance and Feedback

Based on the sign-in book, 81 people signed into the Public Meeting with 33 people filling comment forms. The comment form included four questions and a space to write additional comments. The responses to each question are presented graphically in the pie charts below. The sample size (n) for each response is thirty-three, where every question was answered.

As shown in Figure 2, 61% of attendees felt that their information needs were met.

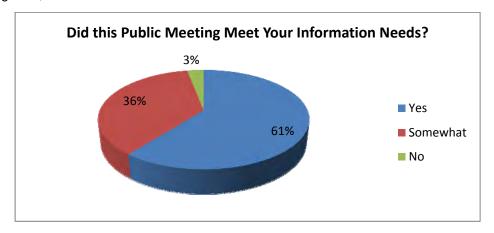


Figure 2: Meeting Information Needs (First Public Meeting)

As shown in Figure 3, 79% of attendees were satisfied with the way their questions were answered.





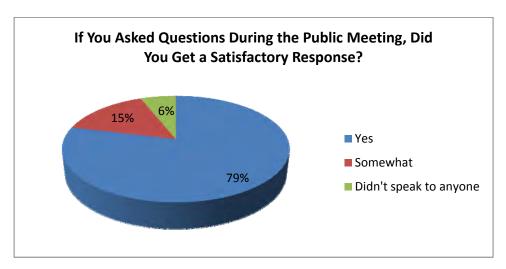


Figure 3: Responding to Questions (First Public Meeting)

As shown in Figure 4, 47% or almost half of attendees responding were supportive towards the Project.

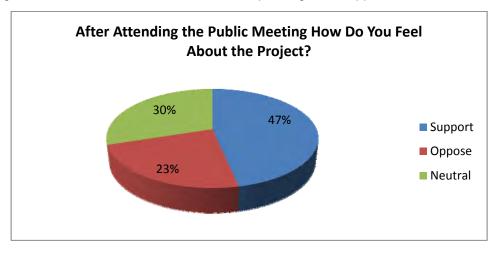


Figure 4: Support for the Project (First Public Meeting)

As shown in Figure 5, 55% of attendees were satisfied with the level of assessment completed.





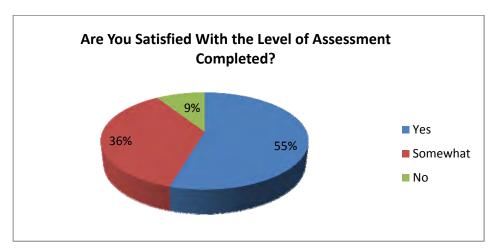


Figure 5: Level of Assessment (First Public Meeting)

Verbatim comments are presented by topic in Appendix B. To protect the privacy of the individuals commenting names were not requested nor are they published if they were provided. A copy of the comment form is provided in Appendix C.

# W.

#### SUMMERHAVEN WIND ENERGY CENTRE

### 4.2 Final Public Meeting

On December 7, 2010 the final Public Meeting for the Project was held at the Jarvis Community Centre in Jarvis, Ontario. The purpose of the meeting was to share information about the Project, the Draft Renewable Energy Application Reports, and invite comments from the public. As noted in Section 2, Notices were advertised in newspapers and mailed according to regulatory requirements. Mayor and Council from Haldimand County were invited to attend a preview session from 3:00 pm to 5:00 pm, however, those Councillors who attended chose to come during the regular hours of 5:00pm to 8:00pm.

#### 4.2.1 Handouts

A variety of handout materials were made available at the Public Meeting. The handout materials included information on topics such as:

- The Project;
- Summerhaven Draft Renewable Energy Approval Reports;
- Property Values;
- Stray Voltage;
- Report Summaries;
- Community Benefits;
- Wind Power:
- Sound and Noise; and
- Human Health.

Copies of the key handouts provided are included in Appendix D.

#### 4.2.2 Display Panels

Team members from NextEra Energy Canada, Air Energy TCI, Bedford Consulting and Golder Associates were available to explain the information on the display panels and in the handouts, and respond to questions. The display panels provided information on:

- The Project Description Report;
- NextEra Energy Canada;
- Construction Plan;
- Design and Operations Plan;
- Decommissioning Plan;





- Wind Turbine Specifications;
- Natural Heritage Report;
- Water Report;
- Noise Assessment Report;
- Cultural Heritage Assessment;
- Archaeological Assessment;
- Visual Resources, including seven visually modelled photos;
- Human Health;
- Shadow Flicker; and
- Project Layout Maps (Site Plan Report).

Copies of the panels, reduced in size, are included in Appendix D.

#### 4.2.3 Attendance and Feedback

More than 200 people attended the public meeting, 144 people signed in and 36 people completed comment forms. Comment forms were also accepted after the Open House until December 9, 2010. One additional form was received after the meeting. The comment form included four questions and a space to provide additional feedback. A copy of the comment form is provided in Appendix D. The responses to each question are presented graphically in the pie charts below. The maximum sample size (n) for each response is thirty-six, including those that did not comment (DNC). Verbatim comments are provided in Appendix B.

As shown in Figure 6, 47% of respondents felt that the information presented met their information expectations.





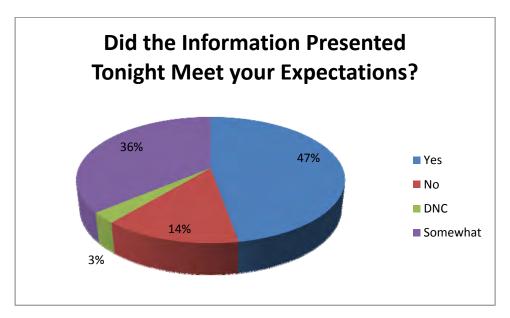


Figure 6: Meeting Information Needs (Final Public Meeting)

As shown in Figure 7, 55% of the respondents indicated they were satisfied with the way their questions were answered.

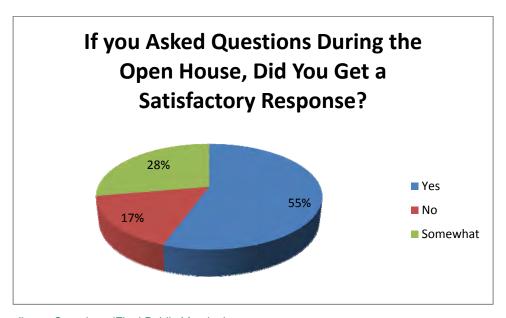


Figure 7: Responding to Questions (Final Public Meeting)

As shown in Figure 8, 56% of those who completed a comment form indicated they opposed the Project.





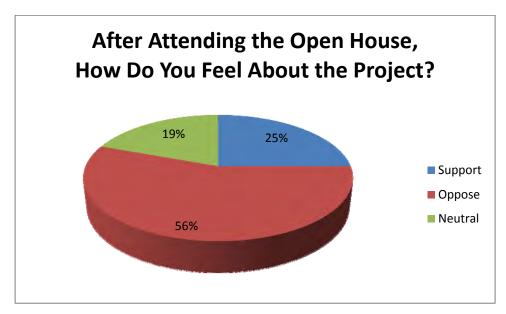


Figure 8: Support for the Project (Final Public Meeting)

The results of question four, as depicted in Figure 9, indicate the topics that those who completed a questionnaire wanted to learn more about. Only 9 comments were specific to the Project while other topic areas related more broadly to wind energy in general. In descending order by number of responses these topics are:

- Potential effects to human health (27 people);
- Effects on the environment (13 people); and
- Socio-economic impacts and benefits (13 people).





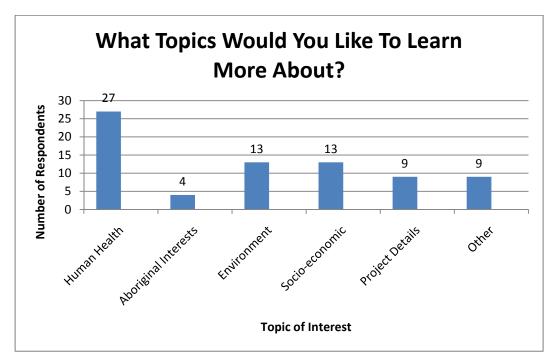


Figure 9: Information Needs (Final Public Meeting)

Additional topics of interest identified on completed comment forms included:

- Noise (7)
- Stray Voltage (2)
- Property Values (9)

All verbatim comments are presented by topic of interest in Appendix B. To protect the privacy of the individuals commenting, no names were requested nor are they published if there were provided.

# 4.3 Additional Final Public Meeting

NextEra Energy Canada held a third public meeting on January 10, 2011 at the Fisherville District Lions Community Centre in Fisherville, Ontario. The meeting provided attendees the opportunity to learn more about the Project, and view the reports provided in the REA submission to the MOE on December 17, 2010. A handout was distributed highlighting key elements of the design that changed from the time of the Draft reports posted on October 6, 2010 to the time the final Project application was submitted to the MOE on December 17, 2010 with the Project layout. This third meeting on January 10, 2011 also provided an opportunity for NextEra Energy Canada to share further information about the topics of interest and demonstrate how comments received throughout the Project were considered. A new panel, "Consideration of Comments" and revised panels of the Project layout maps (site plan), natural heritage, and built heritage panels. The specific design modifications relative to the December 2010 Public Meeting were also identified.





#### 4.3.1 Handouts

A variety of handout materials were made available at the Public Meeting. The handout materials are summarized in Table 6 below. Copies of key handouts provided at each of the three public meeting Appendixes (C, D and E).

#### **Table 6: Information Handouts**

#### **Summerhaven Wind Energy Centre Project Report Summaries**

Project Description Report Summary

Construction Plan Report Summary

**Design and Operations Report Summary** 

**Decommissioning Plan Report Summary** 

Wind Turbine Specifications Report Summary

Natural Heritage Report Summary

Water Assessment Report Summary

Heritage Assessment Report Summary

Noise Study Report Summary

Archaeological Assessment Report Summary

Site Plan Report Summary

**Project Fact Sheet** 

Project Design Changes (with site plan map)

#### **Stray Voltage**

Stray Voltage Factsheet

Produced in 2010

By Canadian Wind Energy Association

#### **Human Health**

Ontario Health Study Report

Produced in May 2010

By Chief Medical Officer of Health

Health and Sound Study Report

Produced in December 2009

By Canadian Wind Energy Association

News Release of Health Study

Produced in December 2009

By Canadian Wind Energy Association

#### **Sound and Noise**

Noise and Infrastructure Study

Produced in July 2009

By Epsilon Associates

Visual and Sound - The Sights and Sound of Wind

Produced in August 2006

By Canadian Wind Energy Association

#### **Community Benefits**

Community Benefits - Why Wind is Right - Right Now





Produced in August 2006

By Canadian Wind Energy Association

Turbines and Land Use - The Win/Win of Wind Energy

Produced in August 2006

By Canadian Wind Energy Association

#### **Property Values**

Wind Farm Proximity and Property Values:

A Pooled Hedonic Regression Analysis of Property Values in Central Illinois

Produced in May 2010

By Illinois State University

Wind Energy Study – Effect on Real Estate Values in the Municipality of Chatham-Kent, Ontario

Produced in February 2010

By George Canning, AACI, P.App. and L. John Simmons, AACI, FRI, CMR, PLE for the Canadian Wind Energy Association

The Impact of Wind Power Projects on Residential Property Values in the United States: A Multi-Site Hedonic Analysis

Produced in December 2009

By Ernest Orlando Lawrence, Berkeley National Laboratory

#### Wind Energy

Landowner's Guide to Wind Energy in Alberta

Produced in September 2010

By The Pembina Institute

Ontario's Long-Term Energy Plan

Produced in 2010

By The Province of Ontario, Ministry of Environment

Green Energy Act Fact Sheet

Produced in 2010

By The Province of Ontario, Ministry of Environment

Planning a Wind Farm - Developing Wind Energy

Produced in August 2006

By Canadian Wind Energy Association

#### 4.3.2 Display Panels

Team members from NextEra Energy Canada, NextEra Energy Resources, Air Energy TCI, Bedford Consulting, IBI Group, and Golder Associates were available to explain the information on the display panels and in the handouts, and respond to questions. The display panels provided information on:

- NextEra Energy Canada;
- The Project Description Report;
- Archaeological Assessment;
- Noise Study Report;
- Design and Operations Plan;





- Wind Turbine Specifications;
- Decommissioning Plan;
- Construction Plan;
- Water Report;
- Human Health;
- Natural Heritage Report;
- Comments from the Public;
- Public Consultation Report;
- Cultural Heritage Report;
- Project Layout; and
- Shadow Flicker.

Copies of the panels, reduced in size, are included in Appendix D

#### 4.3.3 Attendance and Feedback

Approximately 185 people attended the public meeting; 44 people signed in and 12 people completed comment forms. Comment forms were also accepted after the Additional Final Public Meeting until January 14, 2011. No comment forms were received after Additional Final Public Meeting. The comment form included four multiple choice questions and space to provide additional feedback. The responses to each question are presented graphically in the pie charts below. The maximum sample size (n) for each response is twelve, including those that did not comment (DNC). Verbatim comments are provided in Appendix B.

As shown in Figure 10, 33% (4 respondents) felt that the information presented met their expectations.





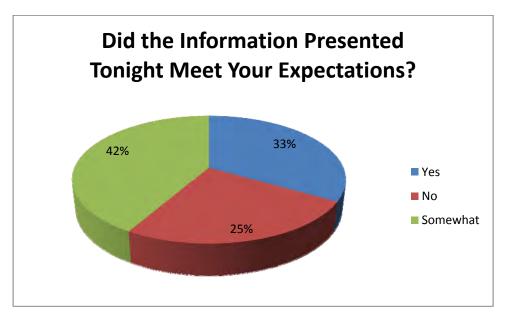


Figure 10: Meeting Information Needs (Additional Final Public Meeting)

As shown in Figure 11, 33% (four respondents) indicated that they were satisfied with the way their questions were answered.

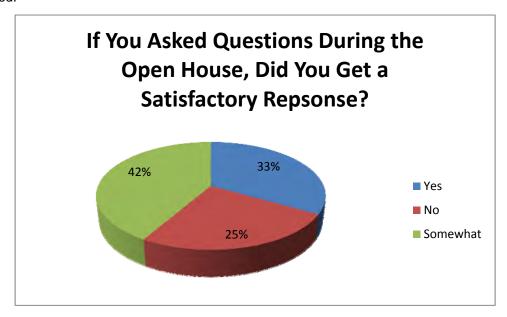


Figure 11: Responding to Questions (Additional Final Public Meeting)

As shown in Figure 12, 67% (eight respondents) indicated that the respondent was opposed to the Project.





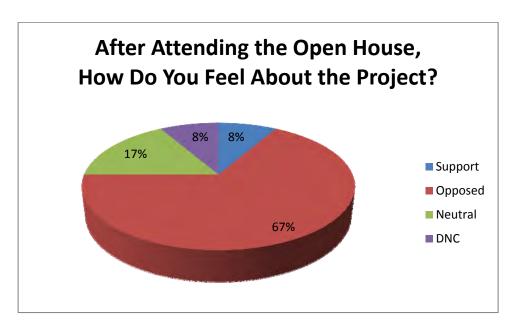


Figure 12: Support for the Project (Additional Final Public Meeting)

Question four from the comment form allowed participants to select a topic(s) that they would like to learn more about, including an "other " option and space to write the topic if it was not listed in the question. The two topics for those who completed a comment form to learn more about regarding wind turbines were human health (7 people) and the environment (6 people). Another topic that was raised and not listed on the comment form was property values (2 people). The results from question four are summarized in Figure 13.

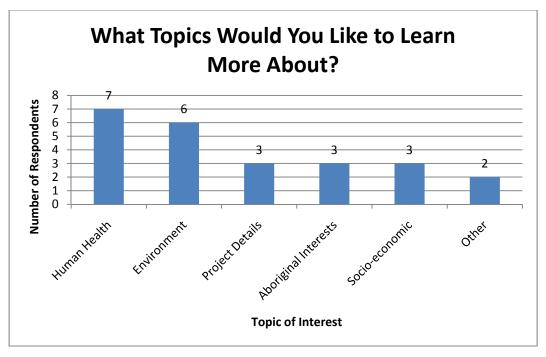


Figure 13: Information Needs (Additional Final Public Meeting)





#### 5.0 COMMUNICATIONS WITH ABORIGINAL COMMUNITIES

Proponents of renewable energy projects are required to obtain, from the Director, a list of Aboriginal communities they deem as having constitutionally protected Aboriginal or treaty rights that may be adversely impacted by the Project or that otherwise may be interested in any environmental effects of the Project.

As detailed in the Project Description Report, this information was first requested from the Director on October 8, 2009 and a list was subsequently provided on October 25, 2010. The following communities were included on the Director's list:

- Mississaugas of the Credit First Nation;
- Mississaugas of the New Credit;
- Six Nations of the Grand River;
- Six Nations of the Grand River, Haudenosaunee Confederacy Council;
- Oneida Nation of the Thames:
- Wahta Mohawks:
- Mohawks of the Bay of Quinte; and
- Mohawks of Akwesasne.

Communication and information exchange with Aboriginal Communities will continue through the construction and monitoring phase of the Project. A detailed record of communications with Aboriginal communities is provided in Appendix F.





#### 6.0 MUNICIPAL CONSULTATION

Under O. Reg. 359/09 the person who proposes to engage in the project shall distribute a Municipal Consultation Form (Part A and Part B) to the clerk of each local municipality and upper-tier municipality in which the Project location is situated. Part B of the Municipal Consultation Form requests the municipality to provide information relating to municipal or local infrastructure and servicing such as:

- Roads (Including new roads and municipal road use);
- Municipal Service Connections;
- Traffic Management Plans;
- Emergency Management Procedures;
- Facility Other; and
- Project Construction.

Part A of the Municipal Consultation Form (provided in Appendix G) was provided by NextEra Energy Canada to the Clerk of Haldimand County on October 5, 2010. The draft Project reports were sent at the same time, and correspondence with the Clerk indicated that the proposed Open House date of December 6, 2010 was on the same day that new Municipal Councillors were being sworn in. The date was therefore voluntarily changed to December 7, 2010 by NextEra Energy Canada such that the Mayor and Councillors could attend if they wished.

Correspondence received on December 13, 2010 from the Manager of Economic Development and Tourism Division Planning and Economic Development Department indicated that Haldimand County would not be releasing the Municipal Consultation Form until Council has reviewed it and endorsed staff comments. NextEra Energy Canada has accommodated the County's requests to date and will continue cooperating and working closely with local officials and community members throughout the lifespan of the Project.

The Municipal Consultation Form was reviewed by Haldimand County Council on March 21, 2011. The County provided a copy of the Report PED-EDT-05-2011 (reviewed by Council), County recommendations and the completed Municipal Consultation Form to NextEra Energy Canada on March 23, 2011. A copy of the Haldimand County's Report PED-EDT-05-2011, County recommendations and the completed Municipal Consultation Form is provided in Appendix G.

As summarized in Section 2, Notices were sent directly to the Haldimand County Clerk for distribution to Mayor and Council. Haldimand County also received the Draft REA Reports in October 6, 2010 for use by Council and the Planning Committee. Table 7 highlights key communications with Haldimand County; general communications have been ongoing since 2007.





**Table 7: Summary of Communications with Haldimand County** 

Date	Communication
November 17, 2009	Sent Notice of Proposal to Engage and First Public Meeting
February 23, 2010	NextEra Energy Canada received letter from Haldimand County requesting a copy of the Project presentation made
September 9, 2010	NextEra Energy Canada requested Haldimand County to review methodology for noise study
September 24, 2010	Meeting to discuss Municipal Consultation Form
October 5, 2010	Sent copies of draft REA Reports and Municipal Consultation Form for completion by Haldimand County
October 6, 2010	Sent Notice of Final Public Meeting
October 20, 2010	Forwarded additional hard copies of REA Reports at the request of the County
November 16, 2010	Meeting to discuss the Summerhaven Municipal Consultation Form and Review Comments on Draft REA Reports. County provided results of October 27, 2010 Site Investigation detailing infrastructure and permitting considerations.
December 2, 2010	Sent electronic versions of the Draft Project Description Report, Draft Site Plan Report, and Municipal Consultation Form for inclusion in a Council Report.
December 3, 2010	Invitation to Mayor and Council to attend Open House preview





Date	Communication		
December 8, 2010	Meeting with two Deputy fire chiefs (Rodger Hill and Rick Smith), along with the Fire Prevention Officer Alan Gee. Discussed NextEra Energy Canada emergency response and safety protocols, and plans to hold an orientation session for the local EMS crew as the Project approaches operation.		
	NextEra Energy Canada will provide further information on the safety plan and coordination/liaising prior to construction.		
December 21, 2010	Sent Notice of Additional Final Public Meeting		
January 31, 2011	Sent letter to Haldimand County Emergency Services regarding their company policies towards employee safety. In addition, nine documents regarding company safety policies were sent.		
February 7, 2011	Sent letter to Haldimand County to invite members of council, staff and representatives from the medical services to their Waymart Wind Energy Centre in Wayne County, Pennsylvania. The purpose of the trip is to give a better understanding of what can be expected once the Summerhaven Wind Energy Centre is in operation.		
March 23, 2011	Haldimand County provided a copy of the Report PED-EDT-05-2011 (reviewed by Council), County recommendations and the completed Municipal Consultation Form to NextEra Energy Canada.		
April 18, 2011	Delegation to Council by NextEra Energy Canada to discuss comments raised by Wind Concerns Ontario delegation of March 28, 2011, and to illustrate the economic benefits of the Project in the community.		

#### 7.0 CONSIDERATION OF COMMENTS

Under O. Reg. 359/09, proponents of renewable energy projects are required to provide in the Consultation report a description of whether and how:

- Comments from members of the public, Aboriginal communities and municipalities were considered by the person engaging in the Project;
- The documents made available in the final Open House were amended after the final public meeting; and
- The proposal to engage in the Project was altered in response to comments received from members of the public, Aboriginal communities and municipalities.

Comments were considered on an individual basis; however they were also compiled and grouped into categories for further analysis and for reporting purposes. The following table outlines the topic categories and sub-categories identified for the Project, for purposes of this Report.





Table 8: Topic Categories and Sub-Categories Identified for the Project

Topic Category	Topic Sub-Category	
Environment	Birds	
Liviolinicit	Animal Habitat	
	Bats	
	Other Animals	
	Environment (Non-specific)	
	Pollution	
Human Health	Stray Voltage	
	Health Concerns	
	Noise	
	Flicker	
	Vibrations	
Project Details	Project Sitting/Location	
Project Details	Project Construction	
	Project Operations	
	Project Schedule	
	Regulatory Setbacks	
	Regulatory Processes	
	Project Details	
	Support for Project	
	Financial/Community Benefit	
Socio-Economic	Agriculture	
	Property Values	
	Community Consultation	
	Mistrust	
	Archaeology / Heritage	
	Visual	
	Wind Support	
	Tourism	
	Socio-economic (general)	
Aboriginal Interests	Aboriginal Treaty Rights and Land Claims	
	Aboriginal Consultation	

Considering comments by topic sub-category was intended to allow for a focussed approach and clear communication surrounding comment topics. As shown in Figure 14, primary topics of interest raised throughout the entire consultation process relate primarily to environment, health concerns, noise, project location, and property values.





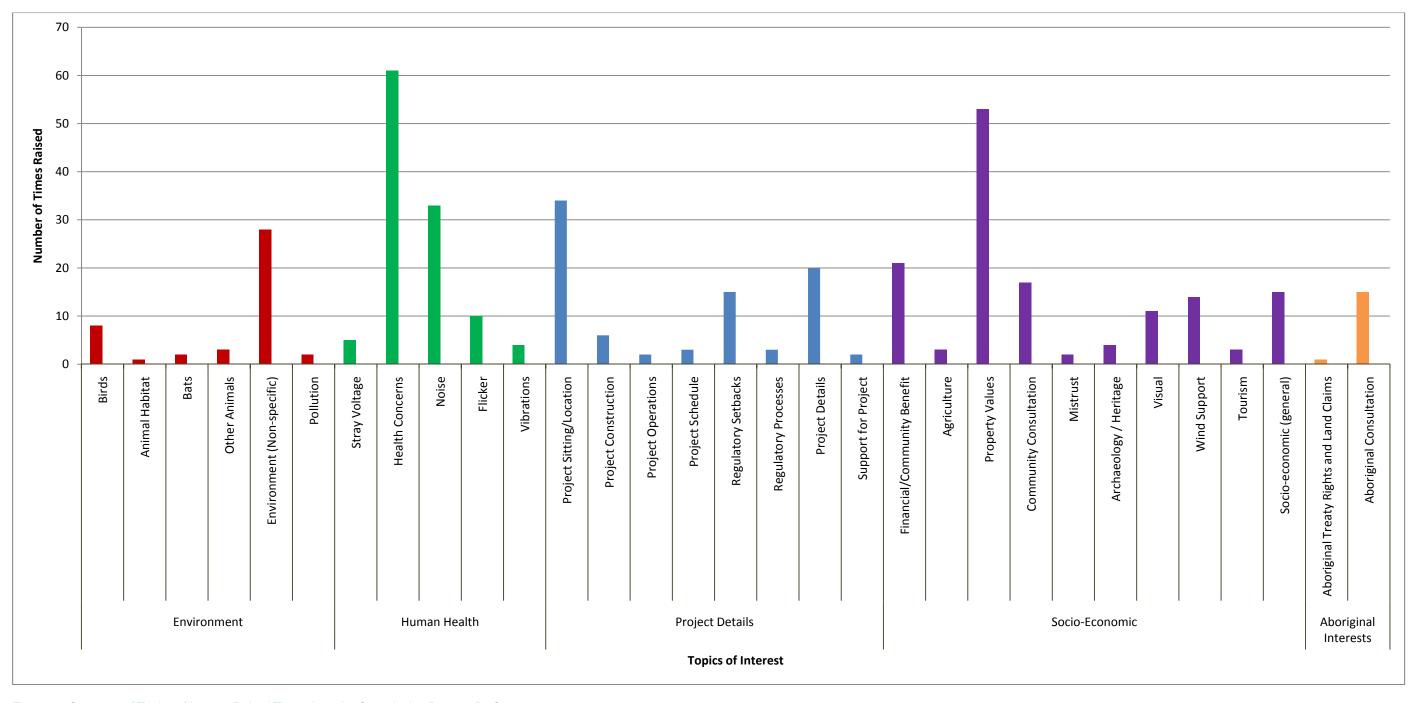


Figure 14: Summary of Topics of Interest Raised Throughout the Consultation Process By Category





Table 9 below provides example comments by topic category, details how the comment has been addressed; and provides a reference in the Application where further information can be found.

**Table 9: Consideration of Comments** 

Topic Category	Example Comment	How Comment Has Been Considered	Location in the REA Application Reports Where Comment Addressed
Environment	The cost to the environment to build these is extreme and that is not mentioned.	Careful construction planning and Best Management Practices will help to protect woodland, valleyland and wetland plants and animals, as well as connections between surface water and groundwater. Avian and bat studies were completed to identify species present and levels of activity. Any potential impacts are expected to be minimal and will be mitigated as needed by environmental compliance monitoring, scheduling construction to avoid breeding season and conducting nest surveys before construction. Post construction monitoring is required by MNR and will be conducted to determine if further mitigation is required.	Natural Heritage Assessment Report, Construction Report, Design and Operations Report
Property Values	Turbines built near my home will decrease my property value and make it impossible to sell my home.	Several recent studies have demonstrated that proximity to a wind farm does not have a negative lasting impact on property values.	Not a required technical assessment under O. Reg. 359/09  Inquires were documented and responses were provided
Health Concerns	More research needs to be done on the health effects of wind farms.	The Ontario Chief Medical Officer of Health has stated that the scientific evidence available to date does not demonstrate a direct causal link between wind turbine noise and adverse health effects. The project has been designed to meet O. Reg. 359/09 to protect public health and safety. NextEra Energy Canada will have a communication program in place to address any concerns related to the operation of the Project.	Not a required technical assessment under O. Reg. 359/09 Inquires were documented and responses were provided





Topic Category	Example Comment	How Comment Has Been Considered	Location in the REA Application Reports Where Comment Addressed
Noise	Wind turbines will be noisy and will affect my quality of life.	The Ministry of Environment has established guidelines to protect public health and safety which prescribe setback distances and permissible sound levels at dwellings. The project has been designed to be in compliance with noise requirements of O. Reg. 359/09.	Noise Study Report
Project Location	Why was this location chosen? It should be up north or in the lake, not where people live.	This area has been shown to have a sufficient wind resource and has access to transmission line capacity. In addition, this project has been awarded a Feed In Tariff contract by the Ontario Power Authority for the generation of electricity.	Not a required technical assessment under O.Reg. 359/09  Inquires were documented and responses were provided



# W.

#### SUMMERHAVEN WIND ENERGY CENTRE

#### 7.1 REA Report Changes and Amendments

Draft Renewable Energy Approval (REA) Reports, including a revised Project Description Report (Version 2) were made available to the public on October 6, 2010 (at the County Offices and on the Project website) and also at the final public meeting on December 7, 2010. Several minor changes were made to the Draft REA Report documents after the final public meeting as a result of feedback from the consultation process and prior to the REA submission to MOE on December 17, 2010. Details of the document changes are provided below.

The October 2010 Draft REA Reports included more than one option for the substation location and transmission line route. The December 18, 2010 REA Reports submitted to the MOE identify Substation Option 1 and a modified Transmission Line Option A (see Site Plan Report) as the final design option. Based on the selected option, the following updates were made to the REA Reports:

- Final calculations of total construction disturbance areas (see Construction Plan Report);
- Final determination of number and types of significant natural features and water bodies (see Natural Heritage Assessment Report) and Water Assessment Report, respectively; and
- Final dimensions of substation, operations building, switchyard, construction field offices and temporary storage area (see Design and Operations Report).

All changes are reflected in the text of the reports and in the various Report and Site Plan figures as applicable. The locations of four permanent meteorological towers were provided in final REA Reports submitted to MOE. All meteorological towers will be 60m in height.

- The Heritage Assessment Report was submitted to the Ministry of Tourism and Culture (MTC), and feedback was received on November 17, 2010. The following changes were made to the report to reflect comments received from MTC:
  - A short explanation/methodology for the boundaries of the study area; and
  - A comprehensive Heritage Impact Assessment for the Hoover Log House.

In addition, a sign off letter from the Ministry of Tourism and Culture (MTC) was obtained on January 10, 2011 regarding the Project location and design.

#### 7.2 Alterations

The Project evolved throughout the planning process to address opportunities and concerns from the public, Aboriginal communities, municipalities and agencies, to maximize energy production and minimize impacts to the environment based on the collective constraints to development identified by NextEra Energy Canada and their Project team through various technical studies and Reports. A summary of alterations to the Project location that were made after the Dec. 7, 2010 Open House is provided in Table 10.





Table 10: Summary of Project Alterations in Response to Comments

Stakeholder	Comment	Alteration and Rationale	
Haldimand County	Proximity of Project to Jarvis expansion area boundary	Turbine 2 and associated gravel access road and 34.5 kV buried collection line to Turbine 2 removed	
Haldimand County  Emergency Medical	Emergency vehicle access	Addition of a 7.3 m wide permanent emergency services road east of Turbine 7 traveling south to Concession Road 6	
Services.			
Hydro One	Switchyard location	Switchyard area relocated approximately 10 m in southerly direction as a result of additional consultation with Hydro One	
Landowner consultation	Mitigation of effects on agricultural practices at request of landowner	Turbine 60 and associated gravel access road and 34.5 kV buried collection line removed	
		Turbine 36 construction staging area and turnaround reorientated	
		Access road and 34.5 kV buried collection line to Turbine 36 straightened to run at the same orientation as parcel boundary north-south	
		Turbine 44 construction staging area and turnaround reorientated	
		Gravel access road and 34.5 kV buried collection line between Turbine 44 and Turbine 45 adjusted to travel directly north-south	
		Access road from Turbine 42 to Regional Road 8 removed	
		Access road and 34.5 kV buried cable from Turbine 43 moved north	

As a result of the removal of the above noted turbines the Project now consist of 59 wind turbine generators (was previously 61 at December 7 Open House) with a total installed nameplate capacity of 131.04 MW.

#### 8.0 REPORT DISTRIBUTION

NextEra Energy Canada has distributed REA Reports to Aboriginal communities and Métis and other stakeholders including government agencies, Haldimand County, and the public, as outlined in Figure 15. Version 1 of the Project Description Report was made available in October 2008 to stakeholders listed in Figure 15, Version 2 and Version 3 of the Project Description Report were made available in November 2009 and October 2010 respectively. Version 1 of the remaining REA Reports was provided to stakeholders in October 2010.

Two comment letters and one confirmation letter specific to the application for a REA are required from regulatory agencies according to O. Reg. 359/09. Two comment letters are required from the MTC for the Stage 1 Archaeology Report and the Heritage Report, which were received in September 2009 and January 2011,





respectively. A confirmation letter was received from the MNR on May 30, 2011 stating that the Natural Heritage Assessment Report has been prepared in accordance with procedures established by the MNR.

An REA Application was submitted to the MOE in December 2010. When an Application is submitted, the MOE completes a two-week review of the Application package to determine if all of the necessary components of the Application are provided and ascertain if any deficiencies are evident. In January 2011 the Application was rejected by the MOE. A major consideration in rejecting the Application was that the confirmation letter from the MNR had not been provided. Additional comments from the MOE preliminary review of the December 2010 Application for a REA were also provided. All comments have since been addressed and the MNR letter has since been received. The REA Application will now be resubmitted and once the MOE has verified that the Application is complete, MOE will post an information notice to the Environmental Registry which will provide a link to the NextEra Energy Canada project website and all of the REA Reports included in the Application.

Although not specifically required under O. Reg. 359/09, NextEra Energy Canada will also notify stakeholders of the Application being posted on the Environmental Registry and make a printed copy of the Application reports available at the same venues that the October 2010 draft were posted for stakeholders to view. Commencing on the date that the notice is posted to the Environmental Registry, the public will have an opportunity to comment over a minimum 30 day period. The dates that comments must be received by the MOE will be posted on the Environmental Registry. All comments received during the comment period will be considered as part of the decision-making process by the MOE. All comments and submissions received will become part of the public record.

The MOE review will occur over a period of up to 6 months. Upon a Renewable Energy Approval being granted by MOE, NextEra Energy Canada will be authorized to proceed with the Project, assuming all other permits and approvals that are legally required are obtained.





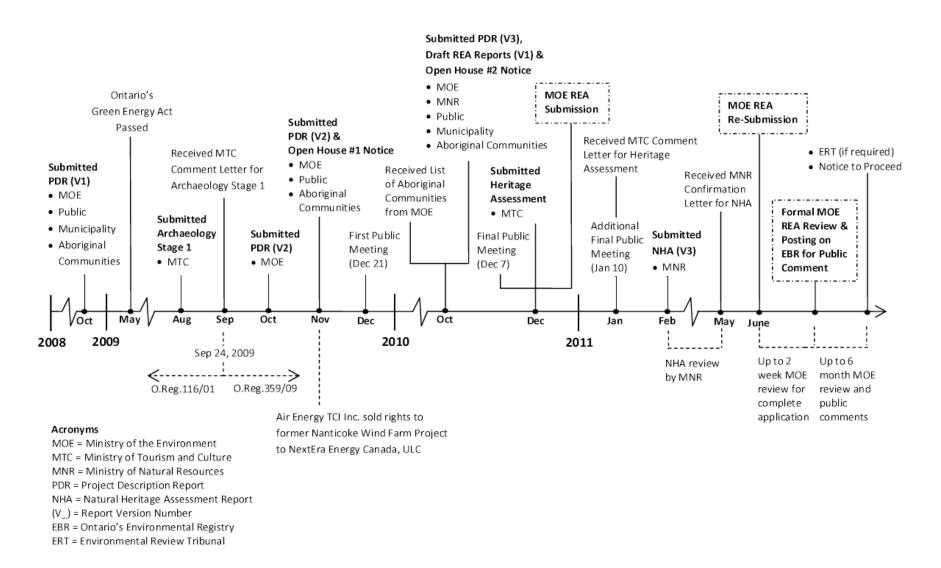


Figure 15: Report Distribution Timeline



# **\*\***\*\*

#### SUMMERHAVEN WIND ENERGY CENTRE

#### 9.0 REFERENCES

- Canadian Wind Proposals. 2010. Draft REA Reports for Summerhaven Project. URL: http://www.canadianwindproposals.com/.
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- Golder Associates Ltd. 2010b. Heritage Assessment Report. Prepared for: Ministry of Tourism and Culture and Ministry of the Environment.
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- Golder Associates Ltd. 2011b. Design and Operations Report. Prepared for: Ministry of the Environment.
- Golder Associates Ltd. 2011c. Decommissioning Plan Report. Prepared for: Ministry of the Environment.
- Golder Associates Ltd. 2011d. Project Description Report. Prepared for: Ministry of the Environment.
- Golder Associates Ltd. 2011e. Wind Turbine Specifications Report. Prepared for: Ministry of the Environment.
- Golder Associates Ltd. 2011f. Natural Heritage Assessment Report. Prepared for: Ministry of Natural Resources and Ministry of the Environment.
- Golder Associates Ltd. 2011g. Noise Study Report. Prepared for: Ministry of the Environment.
- Golder Associates Ltd. 2011h. Water Assessment Report. Prepared for: Ministry of the Environment.
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### **Report Signature Page**

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## **APPENDIX A**

**Notices and Mailing List** 





### **APPENDIX B**

**Verbatim Comments from the Public** 







### **APPENDIX C**

First Public Meeting (December 21, 2009) – Handouts, Comment Forms and Panels







### **APPENDIX D**

Final Public Meeting (December 7, 2010) – Handouts, Comment Forms and Panels







### **APPENDIX E**

Additional Final Public Meeting (January 10, 2011) – Handouts, Comment Forms, and Panels





## **APPENDIX F**

**Aboriginal Consultation Report** 







### **APPENDIX G**

**Draft Municipal Consultation Form Submitted to County and County Comments** 



At Golder Associates we strive to be the most respected global group of companies specializing in ground engineering and environmental services. Employee owned since our formation in 1960, we have created a unique culture with pride in ownership, resulting in long-term organizational stability. Golder professionals take the time to build an understanding of client needs and of the specific environments in which they operate. We continue to expand our technical capabilities and have experienced steady growth with employees now operating from offices located throughout Africa, Asia, Australasia, Europe, North America and South America.

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