

Goshen WIND ENERGY CENTRE NEWS

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WELCOME

As you may be aware, Goshen Wind, LP, a subsidiary of NextEra Energy Canada, was selected by the Ontario Power Authority (OPA) to develop a wind energy project in Huron County, Southwestern Ontario. The proposed wind turbines will be located on privately-owned land to generate clean, renewable energy, producing no air pollutants and allowing landowners to use their land as they did before.

In December, we hosted a Drop-in Centre at the Bluewater Community Complex in Zurich and a public meeting at the Stanley Complex in Varna. There were approximately 100 participants on each day and the NextEra team was pleased that so many people showed up to ask questions and learn about the project.

In this newsletter, you will find a map of the project study area, updated information on the project based on recent field studies and answers to some of the most frequent questions asked during the December public meetings.

Wind is a safe and reliable energy source. We know that there are many complex issues that require ongoing consideration and discussion. We are committed to continuing to work closely with the public at large and the Huron County community. **Your voice counts and your opinion matters** – we hope this and future newsletters provide valuable information, but we also encourage you to share any comments, questions or suggestions for topics you would like to see included in future newsletters.

Kind regards,

Nicole Geneau
Project Director
Goshen Wind Energy Centre

CONTACT US

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ABOUT NEXTERA ENERGY CANADA

- NextEra Energy Canada ULC is a subsidiary of NextEra Energy Resources, LLC, the largest generator of wind energy in North America.
- NextEra Energy Resources operates 90 wind projects in 3 provinces and 17 states with more than 8,800 wind turbines providing over 8,500 megawatts of generation.
- NextEra Energy Resources is focused on developing clean, renewable energy and approximately 95 per cent of our electricity comes from clean or renewable sources.



We value your privacy. Information will be collected and used in accordance with the Freedom of Information and Protection of Privacy Act, and will be maintained on file for use during the planning process for the proposed wind centres.

ABOUT THE GOSHEN WIND ENERGY CENTRE

LOCATION:

The Goshen Wind Energy Centre will be located on private land in the Municipalities of Bluewater and South Huron, Huron County, Southwestern Ontario.

This location has been specifically chosen because of the site's potential to capture energy from wind at minimal impact to the local community and environment. As we move forward, we are committed to incorporating the highest standards in the design, construction, operation and maintenance of the wind turbines and will ensure that factors relating to the natural environment and local economy are included in our planning and construction processes.

PROJECT STATUS:

Over the last year, we have been conducting archeological assessments, which mainly involve pedestrian surveys of ploughed fields to look for artifacts, as well as biological field studies for the Natural Heritage Assessment.

Findings from all disciplines will be reviewed as part of the Renewable Energy Approval (REA) process. The biological fieldwork includes avian surveys, water body and amphibian analyses and ecological land classification to determine what flora and fauna are located within natural features in proximity to proposed infrastructure for the project.

ECONOMIC BENEFITS:

For Huron County, we anticipate the project will have a positive economic impact over its 20 year lifespan - driving jobs, salaries, increased tax revenues and business activity for other industries in the area. We estimate the proposed project will contribute \$166 million in corporate income tax, \$10 million in property tax revenue to the local County, in addition to approximately \$21 million in landowner payments. Lastly, we are in discussions regarding contributions to a Community Vibrancy Fund, established specifically in recognition of the project's broader community context.

QUICK FACTS:

- We anticipate the Goshen Wind Energy Centre will generate a maximum of 102-megawatts (MW) consisting of up to 63 wind turbines.
- At maximum capacity, this project is expected to produce enough energy to power approximately 25,000 homes in Ontario.
- We estimate the project will create 250 construction jobs and 8-10 full time and local operations jobs in its first 20 year lifespan.



FREQUENTLY ASKED QUESTIONS

Please find below an outline of some of the key issues discussed in the community meetings held in December. If you would like any further information, please do not hesitate to contact us.

Q: WHAT IMPACT DO WIND TURBINES HAVE ON OUR HEALTH?

A: NextEra takes concerns about human health very seriously.

Although much has been written about health effects associated with wind turbines, we have found no credible, scientifically peer-reviewed study that demonstrates a link between wind turbines and negative health effects.

In May 2010, the Chief Medical Officer of Health of Ontario conducted a report titled *"The Potential Health Impacts of Wind Turbines"* which states¹:

"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, and there is no scientific evidence to date that vibration from low frequency wind turbine noise causes adverse health effects."

In *"Health effects and wind turbines: A review of the literature"*, Canadian based Loren D. Knopper and Christopher Ollson state:

"To date, no peer reviewed articles demonstrate a direct causal link between people living in proximity to modern wind turbines, the noise they emit and resulting physiological health effects."²

Canadian Wind Energy Association's *"Wind Turbine Sound and Health Effects: An Expert Panel Review"* states:

- Sound from wind turbines does not pose a risk of hearing loss or any other adverse health effect in humans;
- Sub-audible, low frequency sound and infrasound from wind turbines do not present a risk to human health;
- Some people may be annoyed at the presence of sound from wind turbines. Annoyance is not a pathological entity; and
- A major cause of concern about wind turbine sound is its fluctuating nature. Some may find this sound annoying, a reaction that depends primarily on personal characteristics as opposed to the intensity of the sound level.³

Q: HOW DOES THE COST OF WIND ENERGY COMPARE TO OTHER ENERGY SOURCES?

A: The cost of wind power generation is competitive with that of other newly-installed power sources. Once turbines are installed, the cost of generating wind power will remain steady for decades because the cost of the fuel – wind – is free. In Ontario, energy that is generated by wind power is added to the provincial grid so the cost to consumers is the same as any other power-generating source.

While wind energy does not create additional costs, it is true that electricity prices have risen steadily across Ontario over time and this has happened for a number of reasons:

- Ontario is closing its fleet of dirty, coal-fired generation by 2014 and replacing it with cleaner, greener sources. There is a cost associated with replacing coal, which has not historically been priced to capture the broader negative externalities associated with electricity production.
- As mandated by the government, there is a pressing need to update and modernize Ontario's infrastructure, such as transmission

lines which were built in the 1950s and 1960s with a useful life of 40 years. As this happens, higher charges to end-users are applied.

- Historically, the cost of generating and delivering electricity to consumers has been heavily subsidized within crown corporations. The government agencies in charge of setting fees have stated they are in the process of adjusting the fee structure to more accurately reflect the true cost of energy production.

Q: WILL THIS PROJECT AFFECT AGRICULTURAL PRODUCTION?

A: No. Wind turbines occupy only a small fraction of the property where they are built, allowing land use to continue as it did before. Farming and grazing continue undisturbed and the landowners hosting the project benefit from an added source of guaranteed income.

¹ The report can be found at: http://www.health.gov.on.ca/en/public/publications/ministry_reports/wind_turbine/wind_turbine.pdf

² The report can be found at: <http://www.ehjournal.net/content/10/1/78>

³ The report can be found at: <http://www.canwea.ca/pdf/talkwind/>



THE RENEWABLE ENERGY APPROVAL PROCESS

Proposed wind and renewable energy projects in Ontario must go through an approval process regulated by the Ministry of the Environment and the Ministry of Natural Resources. Under the Renewable Energy Approval (REA) process, a proposed wind project must show that it meets the guidelines as set out by Ontario's Green Energy Act.

As part of the REA process, we are undertaking a number of comprehensive studies that assess how the proposed project will impact the cultural and heritage resources and natural environment as well as the local community. This includes the Natural Heritage Assessment Report, which will be submitted to the Ministry

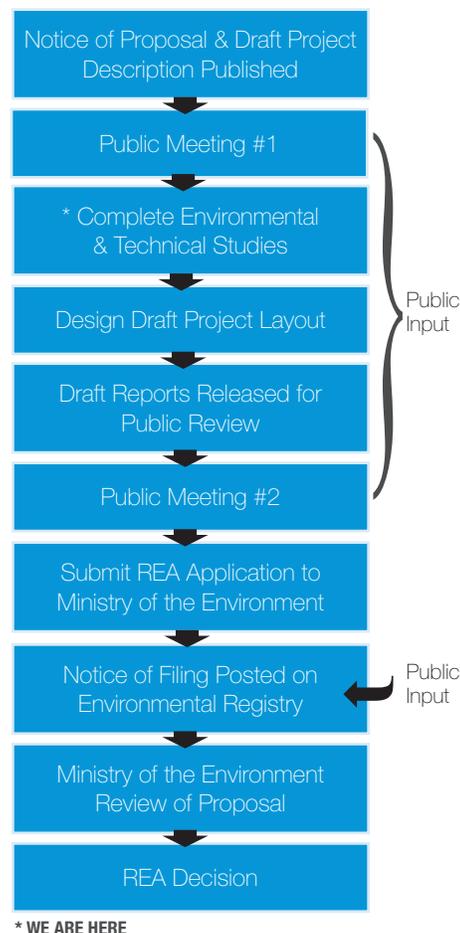
of Natural Resources for review and approval as well as the Environmental Effects Monitoring Plan, which will assess potential impacts on bird and bat species during the first three years of the wind turbines' commercial operations. Many of the studies will be incorporated into these reports.

As part of this, we will be consulting you and your local community as we conduct site studies and set-up public meetings and drop-in sessions – very much like the Drop-in Centre and Community Update Meeting held in December. As we move forward, we will enhance our design to reduce, eliminate or mitigate any potential effects, to the greatest extent possible, which may be identified during this process. When we complete the studies, NextEra Energy Canada will provide the public with the studies 60 days prior to our final public meeting.

After we have received your comments, we will submit the REA application for review by the Ministry of Environment. Other agencies, including the Ministry of Natural Resources, the Ministry of Transportation, the Ministry of Tourism, Culture and Sport and local conservation authorities also provide input to the approval process.



OVERVIEW OF THE APPROVAL PROCESS



WHY WIND?

The Ontario Government has identified a need to increase clean, renewable energy generation in Ontario through renewable energy projects including solar farms and wind turbines. This is intended to reduce our province's dependence on traditional forms of energy while boosting investment and creating local jobs.

Not only are wind turbines considered 'clean energy' as they help reduce our dependence on fossil fuels without producing harmful waste, greenhouse gases or water emissions, they can also bring a host of benefits to your local community.

While the costs of fuel for many forms of conventional energy are volatile, the cost of wind energy is fixed. This means that once a wind farm is built, the price of electricity is stable for the lifespan of the wind turbine – approximately 20-30 years.

Developments in technology have also resulted in more efficient wind turbine production and the last twenty years has seen the cost of wind-generated electricity drop significantly. On top of

this, there has been a threefold increase in the amount of power wind turbines can generate, making wind an increasingly cost-effective energy resource.

The construction and maintenance of wind turbines also benefits your local community as they stimulate economic growth.



Looking ahead, when the wind turbines are decommissioned, there is no hazardous clean-up and newer, more efficient models could potentially take their place, making the cost of wind energy even more economical.



Lastly, wind energy diversifies and increases farmers' incomes as they continue to rely on traditional land use while receiving payments to lease their land. This helps stabilize the overall economic prosperity of the community, while allowing traditional land-use practices to continue undisturbed.

For these reasons, we believe wind turbines are a win-win situation for all.

⁴ Blowing Smoke: Correcting Anti-Wind Myths In Ontario

