

The following table summarizes the comments received during and after the August 21-23, 2012 Public Meetings for the Suncor Energy Cedar Point Wind Project (the Project). Responses to these questions are being provided based on the status of the Project at the time of the release of this document (March/April 2013). The number in the bracket beside each theme indicates the number of similar comments received via the comment card and email address.

Theme	Comment	Response
Cost (5)	People can't afford the cost of wind energy. Other jurisdictions have realized the uneconomic reality (re: Norway). Can these projects operate without government subsidy?	New power plants are required to meet the increasing demand for electricity and to replace aging power plants. It is imprecise to compare the costs of new power generation to existing power plants. In order to make an accurate comparison, one must measure the costs for various types of new power plants. The contract rates were set by the provincial government to incent green energy development in Ontario and create jobs. As technology has improved over time, wind projects are proven to compete with other forms of new generation and can operate without government subsidy. This link provides the news release by the Ontario government related to this information. <u>http://news.ontario.ca/opo/en/2010/04/ontario-becoming-north-american-green-energy-leader.html</u>
	I understand that excess electricity is diverted to Quebec at a cost to Ontario. This simply does not make sense to us.	Ontario is connected to neighbouring electrical regions and electricity flows back and forth according to supply and demand. The electricity market in North America including Ontario is settled and balanced every five minutes. This includes settlements with adjacent provinces or states. The price paid for imported/exported electricity from Quebec and other markets fluctuates with market demand, although, the Independent Electricity System Operator (IESO) has set the minimum price for exported power which is currently set at \$0 per megawatt hour. To find out more about the Ontario energy market and how it is operated please go to: www.ieso.ca
	Wind turbines are not economical as they are not a reliable source of electricity.	Utilities around the world continue to recognize the value wind energy can play within a larger interconnected electrical transmission system. With good placement, a modern wind turbine will typically produce electricity 70 percent of the time. Enhanced technology and design improvements have also played a part in increasing the reliability of wind power allowing turbines to generate electricity in all but the most extreme weather conditions. The use of advanced wind and weather forecasting tools help to make wind energy more predictable and more reliable than ever before.



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	Believe it is imperative that tower and blade manufacturing be maximized in Ontario creating as many spin off jobs as possible.	The Feed in Tariff program includes a domestic content requirement which requires projects use components manufactured in Ontario. The prices set in the FIT program have attracted manufacturers of renewable energy components to Ontario to spur the economy and generate jobs.
		As a result Suncor is required to purchase turbine components, electrical components, labour and engineering services from Ontario companies to meet the requirements in the Feed In Tariff contract.
		Suncor has selected the Siemens SWT 2.3-113 wind turbine. Siemens is manufacturing the following components in Ontario:
		 Blades at Siemens blade facility in Tillsonburg, ON Towers sections from CS Wind (Windsor, ON) or TSP (St. Catharines, ON) Steel for towers sourced from the steel mill at Essar Steel Algoma Ontario Heat Exchanger assembled and tested at Grand Valley Specialty Welding (Cambridge Ontario)
		Siemens is expecting to create up to 300 jobs at its Renewable Energy business in Canada including at the Tillsonburg facility.
		As Suncor continues to progress the project design, we are committed to continuing to use Ontario companies and labor to support this project from the application phase through to engineering and construction and ultimately operations, assuming we receive our REA permit.
	When turbines are decommissioned the entire foundation and transmission lines should be removed as well.	Suncor, as the owner of the proposed wind power project, is responsible for the decommissioning of the Project. Suncor is committed to returning the site to a safe and clean condition after decommissioning of the Project in accordance with Ministry of the Environment, Ministry of Natural Resources requirements and our lease commitments.
Decommissioning (4)	Are the turbines able to be recycled after decommissioning?	At the end of a wind turbine's life, it would be dismantled and portions would be recycled. Project components with remaining useful life may be resold into the market.
		In general, the physical works involved in dismantling a project infrastructure follow the reverse procedures and practices required for their construction. As required by the Ministry of the Environment, a decommissioning plan will be included in the Renewable Energy Approval (REA) application which will be publicly available. This plan will outline our commitment to decommission the project.
	Suncor should be required to post a bond to	Per the requirement of the REA approval, Suncor, as the owner of the proposed wind



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	cover the cost of decommissioning.	power project, is responsible for the cost of component removal during decommissioning of the project.
	What happens after the 20 year lease is over and not renewed?	Upon the end of the project's life, Suncor will decommission the site in accordance with government requirements and lease commitments. Suncor will return the site to a safe and clean condition.
	In support – Job well done. We must get rid of coal and move to clean energy.	Thank you for your comments. We appreciate all input received through the public consultation process and want to understand all points of view to build the best project possible.
Support (6)	Your displays had useful information and are more effective than an open meeting. There is a significant amount of misinformation being presented in the media. Suncor needs to give	Thank you for your comments. We appreciate that the community is not unanimous in its support of our proposed project, and that different opinions are often represented in the media.
	the "facts" in local media. Your voices need to be heard to diffuse the misinformation.	Our focus is to communicate directly with the public through our public consultation as we work toward completion of our Renewable Energy Application.
	I have spoken to people who live near the turbines who have documented health issues related to the proximity to the turbines. There should be a moratorium on Projects until the	Suncor has been part of the Canadian wind industry for more than 10 years and continues to monitor studies and scientific information related to health effects and wind power projects.
	Health Canada study is released.	According to www.WINDFACTS.CA:
		"The balance of scientific evidence and human experience to date clearly concludes that
		wind turbines are not harmful to human health – in fact, wind energy reduces harmful air
		emissions and creates no harmful waste products when compared with other sources of
		electricity.
Health (26)		This conclusion has been reached by numerous independent reviews of the scientific
10ultin (20)		literature.
		The global wind industry collectively continues to engage with experts in science,
		medicine and occupational and environmental health to monitor ongoing credible
		research in the area of wind turbines and human health."
		The Ontario Chief Medical Officer's 2010 report concluded that there is 'no scientific evidence of any direct causal link between wind turbines and adverse health effects.
		http://health.gov.on.ca/en/common/ministry/publications/reports/wind_turbine/wind_turbine/wind_turbine.pdf



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	How do you propose to compensate the population for all of the negative health effects	According to www.WINDFACTS.CA:
	they will suffer?	"The balance of scientific evidence and human experience to date clearly concludes that
		wind turbines are not harmful to human health - in fact, wind energy reduces harmful air
		emissions and creates no harmful waste products when compared with other sources of
		electricity.
		This conclusion has been reached by numerous independent reviews of the scientific
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		http://www.health.gov.on.ca/en/common/ministry/publications/reports/wind_turbine/wind_ turbine.pdf
	Concerned about the health effects of electromagnetic fields (EMF).	Suncor recognizes that people are concerned about EMF, and we treat those concerns very seriously.
		There has been more than 30 years of research that has included numerous studies and reviews by national and international scientific and health agencies, including Health Canada and the World Health Organization. None of these agencies have concluded that exposure to EMF from power lines is a demonstrated cause of any long-term adverse effects to human, plant, or animal health. None of these agencies has recommended that the general public take steps to limit their everyday exposure to EMF.
		Based on this research and the conclusions of these agencies, Suncor believes that the levels of EMF associated with its transmission facilities are not a risk to health. For further information, you can check out the following websites:



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		World Health Organization http://www.who.int/peh-emf/about/WhatisEMF/en/ Health Canada http://www.hc-sc.gc.ca/hl-vs/iyh-vsv/environ/magnet-eng.php Canadian Electricity Association http://www.electricity.ca/industry-issues/environmental/electric-and-magnetic-fields.php National Institute of Environmental Health Sciences http://www.niehs.nih.gov/health/topics/agents/emf/index.cfm
	Concerned about the impacts of sun reflection off turbine blades.	Turbine blades are light coloured grey and the surface gloss is classified as a 'semi- matte' to reduce reflection of light.
	What happens if a turbine damages someone else's property? Who pays for the damage?	In the extremely unlikely event that damage is caused to a neighbouring property as a direct result of the construction or operation of the Project, Suncor would work to remedy any damage.
Property Values (12)	Concerned about financial loss due to property value decreases. Suncor should guarantee that homeowners living near your wind turbines will be reimbursed for loss of property value. It won't make any difference to farm land but it will be huge to the small property owner (1-10 acres).	There are conflicting views on the effects of wind power projects on property value. Two recent studies conducted in southern Ontario (Municipality of Chatham-Kent (2010) and Township of Melancthon, Township of East Luther Grand Valley and County of Dufferin (2006)) both indicate that there was no decrease in the property value due to the construction of wind power projects in the area. In addition, REMAX Market Trends Farm Edition 2011, indicated significant increases in the price of farmland from 2010 values across Ontario. The report also mentioned that additional sources of income from solar panels, windmills and gas leases can potentially net the average farm additional increases in farmland prices.



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		A recent case study published on <u>www.ontario-wind-resistance.org</u> was provided to Suncor. The case study "Diminution in Value – Wind Turbine Analysis" was completed by Lansink Appraisals and Consulting. The report focuses on 5 properties within the wind farm purchased and sold by the wind farm operator. CanWEA is reviewing the details of the report and has identified areas of concern with respect to the design and results of this study. Suncor continues to stay abreast of this review. <u>http://www.canwea.ca/news/release/release_e.php?newsId=159</u> Suncor will continue to review third party studies related to property values.
Opposition (9)	I am in strong opposition of the project.	Thank you for your comments. We appreciate all input received through the public consultation process and want to understand all points of view to build the best project possible.
	You are tearing apart families and longtime neighbours in the rural areas. It has pitted land owners (mainly farmers) against small property owners.	We recognize that support for our projects, and for wind energy development in general is not unanimous. We appreciate all input received through the public consultation process and want to understand all points of view to build the best project possible.
	Many residents oppose this project, and should have the right to vote on such a large change to their community.	We recognize that support for our projects, and for wind energy development in general is not unanimous. The vehicle that has been established by the regulators to receive public input is through the public consultation process. We encourage residents to express their opinions directly to their local political representatives. At the same time, we are continuing to receive feedback from the community and will use that input to build the best project possible.
	At your public meetings, 98% of residents do not want wind turbines.	Thank you for your comments. We appreciate all input received through the public consultation process and want to understand all points of view to build the best project possible.



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Technology (5)	Comment Would like to see all transmission lines buried underground to minimize visual impact.	Response Final selection of the transmission line route will be based on the results of consultation activities including those with the local landowners, local municipalities, Ministry of Transportation, and detailed design / engineering work. Currently, all collector lines on private property are proposed to be buried. The high voltage transmission line proposed for this project is proposed to be above ground. An attempt to reduce visual impact has been completed by selecting a route that passes the fewest residences. Agricultural impacts were minimized by locating the route along property limits and road right of ways where possible.
	How will you store excess energy produced?	Energy produced by the Project will be sent into the provincial power grid. The Independent Electricity System Operator (IESO) manages the overall supply and demand balance for Ontario. This Project does not have any storage capabilities planned.
	What is the inspection frequency of the turbines?	The inspection frequency of the turbines consists of a prescribed preventative maintenance schedule and additional inspections to address requirements identified during the routine monitoring of the turbines. The project is monitored 24/7 by a control centre with field technicians, who work with developed procedures designed to address everything from simple resets to emergency response events.
	Will lights be on all the turbines?	Transport Canada is the regulator that determines which turbines require aviation lighting. Suncor will work with Transport Canada to safely minimize the amount of turbines requiring aviation lighting. Approximately 60% of the turbines will require lighting to satisfy Transport Canada requirements.
Tourism (1)	What is your evidence base that tourists will flock to our area to see wind turbines? You underestimate the ability of the public to read	Renewable energy projects can be marketed as a tourism feature which can result in additional economic benefits to the local community.



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	about adverse effects of wind turbines and the protests against them around the world.	According to information provided by our industry association, CanWEA, "Wind projects are objects of fascination for many and, as such, can generate tourism for the local community. Some wind projects get thousands of visits a year and the benefits of that amount of visitors to a community can be felt by many businesses including shops, restaurants and hotels and motels."
Land use (1)	You are covering excellent farm land with cement and desecrating native ancient historical grounds.	Suncor has met with each landowner with proposed infrastructure on their property and discussed how our infrastructure can coexist on their property with their own ongoing operations. A 100 acre property with a single wind turbine would lose between 1 and 2 acres of land from agricultural production.
		Suncor has also conducted a Stage 1 and 2 archeological study to identify areas of potential cultural significance and search areas planned for infrastructure for artifacts. Artifacts were discovered at 16 locations that will require additional archeological work to fully assess their cultural significance and impact to the project. All archeological studies are being conducted in accordance with rules set by the Ministry of Tourism Culture and Sport (MTCS).
Setback (15)	Set back has to be at least 2000 m. It should be used to protect residents including children with disabilities. Respect Plympton Wyoming Councils decision of 2000 m. All parties within 2 km setback of the turbines should be in agreement with their construction.	We are aware of the by-laws of Plympton-Wyoming. Provincial regulations set out the guidelines for setback in order to protect public health and safety. Our project is designed in accordance with the provincial regulations
	Distance to roadways should be 2 km in case of catastrophic failure.	According to current regulatory requirements, wind turbines can be located a minimum distance of blade tip + 10 m (approximately 66.5 m) from road rights-of-way. Suncor has located all turbines a minimum of 100 metres from any road and a minimum distance of 150 metres from major roads.
	Why are the turbines so close to schools and houses?	The Ministry of the Environment established guidelines indicating that the minimum distance that a turbine can be placed from a school or house is 550 metres.
		Aberarder Central School is the only school located within the project boundary. The closest proposed turbine to the Aberarder Central School is 1,207 metres.
		On average, the distance from Suncor's proposed turbines to the nearest house is 734 metres.



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	Create and enforce a code of ethics for placement of turbines among neighbours. In particular land owners supporting and profiting should have them closest to their residence not neighbours.	When developing a project, Suncor attempts to minimize the impact on all stakeholders. Suncor has selected a larger turbine generator to reduce the overall number of turbines required for this Project.
	Greater setbacks from property lines should be enforced. The larger the turbines (similar to those to be erected in the community) should have a greater setback in case of catastrophic failure.	Turbine setbacks to property lines are directly related to the dimensions of the turbine (e.g. hub height or blade length plus 10 m). Thus, the larger the turbine proposed, the greater the setback required to property lines. Additional information is provided in the Property Line Setback Assessment (Attachment D to the Design and Operations Report).
	The 550 m setback is one of the smallest in the world. Britain just passed a bill in 2012 to have a 3 km setback on turbines over 150 m tall.	The 550 m setback is a minimum distance requirement set by the Ministry of the Environment.(MOE). In addition, the sound level at each 'receptor' (which is a MOE regulatory term that includes houses, schools, etc.) cannot exceed the MOE noise criteria. This generally causes the distance between a turbine and a house to be greater than 550 metres. On average, the distance from Suncor's proposed turbines to the nearest house is 734 metres.
		When developing requirements, the Ministry of the Environment used existing scientific research from around the world. For a list of studies supporting the Ministry of the Environment's decisions related to setbacks, please visit <a href="http://www.ene.gov.on.ca/stdprodconsume/groups/lr/@ene/documents/nativedocs/stdprodconsume/groups/lr/@ene/documents/nativedo</td>
Location (20)	Provided input as to the turbines which should not be built (e.g. in proximity to the lakeshore, Hubbard Line, Hickory Creek, etc.) due to factors such as proximity to residential areas, changes to the rural viewscape, change in land use to industrial, health and noise concerns, and	The number of turbines being proposed for the Project has been reduced since the previous public meetings in part based upon the feedback of local stakeholders at the previous public meeting. (Previously 77 turbines were shown on the map, with a plan to build up to 62; today, our project plan shows 55 possible locations and 46 planned to be constructed.)
	tourism impacts. Put them where there are no residents such as northern Ontario, industrial sites or in Toronto where the power is needed.	At previous open houses, Suncor requested stakeholders to identify the turbine(s), which were of most concern to them. This information was taken into consideration by Suncor when revising the Draft Site Plan.
	Why are turbines not erected in the GTA where the power is needed?	This particular project site was selected because there was a reliable wind resource, available transmission capacity, and an interest in landowner participation. The power will be fed into the provincial transmission system and used where needed.



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	The turbines will stop residential development, especially along the lakeshore.	The project design includes a setback from the shoreline communities which considered urban expansion outlined in the Lambton Shores Official Plan (Schedule C) We have also considered sensitive land areas (i.e First Nations areas and the local golf course) as well as environmentally sensitive areas. <u>http://www.lambtonshores.ca/Docs/Schedule_C%20(WindEnergy).pdf</u>
	How do you propose to prevent the deaths of the 40 plus bird species on Lake Huron's major migratory route? A diverse number of birds and bats use Hubbard Line area as an important migratory stop. Travelling between lagoons in Forest and Cedar Cove around the clock.	As with all structures, there are encounters between turbines and birds and bats. The Project is subject to bird and bat mortality thresholds that have been developed by the Ministry of Natural Resources (MNR) to ensure the protection of population levels. Studies have been completed to document baseline environmental conditions including habitat related to migratory birds. Results have been provided in the Natural Heritage Assessment.
		contingency measures are required to be implemented.
Natural Environment (11)		Suncor participated in and helped to fund a research project designed to identify and monitor the migratory behavior (flight paths and altitudes) of bats using specialized radar-acoustic technology. As a responsible energy developer, Suncor continuously strives to update our design and operating standards to ensure that our impact on the local environment is minimized.
	Concerned about turbines 45, 47, 48 and 39 because bald eagles and tundra swans migrate to these locations.	As part of the Natural Heritage Assessment (NHA), Suncor was required to identify Significant Wildlife Habitat (including habitat related to Tundra Swans and Bald Eagles) and incorporate applicable setbacks to such habitat in the design of the Project. Please see the NHA for additional information.
		The impact to the habitat of these species has been evaluated in the NHA and it has been concluded that there will be no impact to their habitat as it is not present within the Project's Zone of Investigation as defined by the Ministry of Natural Resources.
		The Project Boundary is within 5 km of the Lake Huron shoreline and there is potential for waterfowl stopover and staging areas to occur within it. The Thedford Flats Important Bird Area is located approximately 5 km from the Project Boundary and is known to support congregations of Tundra Swans; however, there are no known waterfowl stopover and staging areas within the Project Boundary. The only location found within the Project Boundary which had a congregation of Tundra Swans is the sewage lagoons



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		west of the Town of Forest. The sewage lagoons may provide a stopover area; however, sewage lagoons are not considered significant wildlife habitat as they are non-natural features.
		There are no known Bald Eagle nests within the Project Boundary; however Bald Eagles have been recorded in the Project Boundary. Habitat assessments within the Zone of Investigation did not detect any specialized nesting habitat for or nests of Bald Eagles. No significant wildlife habitat was present within the Zone of Investigation for Bald Eagle nesting, foraging and perching habitat.
		In order to provide protection to the species during operation, Suncor is required to conduct post-construction monitoring studies and implement contingency measures (such as periodic turbine shutdown) in the event that monitoring reveals the Project is having negative effects above the thresholds established by the Ministry of Natural Resources. Please see the NHA/Environmental Impact Statement for additional details related to the post-construction monitoring program and the thresholds which apply to the Project.
	The Hickory Creek Valley/Floodplain should not be used. It is a natural area with wildlife habitat that should be protected.	As part of the Natural Heritage Assessment, Suncor was required to identify Significant Wildlife Habitat throughout the entire project area and incorporate applicable setbacks to such habitat in the design of the Project. We are aware of the Hickory Creek Valley/Floodplain area and appropriate setbacks have been included in the project design.
		For additional information, please see the NHA and Water Assessment and Waterbody report (Section 4.6) posted on the Suncor website.
	The Draft Site Plan Report has not been made available to the public.	The Draft Site Plan report and Revised Draft Site Plan Report have been available to the public since August, 2012 (at multiple viewing locations) and can be found on the project website at http://www.suncor.com/en/about/4797.aspx
Consultation (9)	Would like to see an open meeting with a panel of your people to answer questions for all people to hear. The way the meeting is set up, conveys information but not question and answers for all	The format of the meeting provided stakeholders the opportunity to view project information (display boards) at their own pace, review existing literature, and ask project representatives specific questions on a one to one basis.
	to hear, it does not prove affective for those attending.	It was also an opportunity for Suncor representatives to better understand the perspectives of our stakeholders so that their views are taken into consideration as we continue our project planning. We believe this approach leads to an effective way of communication between stakeholders and Project representatives.
		All comments and concerns received at the public meetings will continue to be recorded



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		and will be included as part of Suncor's Renewable Energy Approval (REA) Application to the Ministry of the Environment.
	Congratulations on a professional presentation under the circumstances. Keep up the great work!	Thank you for your comments. We appreciate all input received through the public consultation process and want to understand all points of view to build the best project possible.
	Would like to see someone local from Suncor. Instead you have people in attendance from out west who know nothing about this community.	At Suncor open houses, we have numerous people based in Ontario and Alberta who are available to answer questions and discuss our proposed wind power projects
		Various technical staff (e.g. biologists, risk assessors, scientists, etc.) along with Suncor representatives experienced in all facets of wind power project development and construction were present at the recent open houses.
	I read your responses to our community member concerns and I have never felt so dismissed. If you didn't plan to listen and make changes to your plans, you should not pretend to	Thank you for your comments. Suncor appreciates all input received through the public consultation process and wants to understand all points of view to build the best project possible.
	understand.	The number of turbines being proposed for the Project has been reduced since the previous public meetings in part based upon the feedback of local stakeholders at the previous public meeting. (Previously 77 turbines were shown on the map, with a plan to build up to 62; today, our project plan shows 55 possible locations and 46 proposed to be constructed.)
		At previous open houses, Suncor requested stakeholders to identify the turbine(s) which most concerned them and this information was taken into consideration by Suncor when revising the Draft Site Plan.
		If you did not feel that your particular question was answered to your satisfaction, we would encourage you to contact Suncor directly through our email address of <u>cedarpoint@suncor.com</u> .
	Ensure the "as built" noise is the same as the study.	The Project must be operated in accordance with all approvals associated with the Project including those related to environmental noise.
Noise (8)	What would the sound level be at my residence as a result of nearby turbines?	We have designed the Project based on MOE regulations and the results can be found in our Draft Acoustic Assessment Report.
		We would encourage you to contact Suncor directly about your specific residence through our email address; cedarpoint@suncor.com .



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	I have an acute level of hearing, how will I be protected given my extra sensitivity to noise?	We have designed the Project based on MOE regulations and the results can be found in our noise impact report. We would encourage you to contact Suncor directly about your specific residence through our email address of cedarpoint@suncor.com.