

**Suncor Energy Cedar Point Wind Power Project  
April 2, 3 and 4, 2013 Public Meeting Comment Response Table**

The following table summarizes the comments received during and after the April 2-4, 2013 Public Meetings for the Suncor Energy Cedar Point Wind Project (the Project) and received by April 5, 2013. The number in the bracket beside each theme indicates the number of similar comments received via the comment card and email address. In addition, Suncor received 564 copies of a form letter of objection from local residents from April 2-9, 2013, along with approximately 2,500 signatures on a petition that was hand delivered by WAIT – PW (We’re Against Industrial Turbines – Plympton-Wyoming) at the final Public Meeting on April 4, 2013. Of the letter of objection and petition signatures, approximately 4% were from residents outside of the Project area (e.g. Kitchener, Hamilton, etc.).

Theme	Comment	Response
Cost (10)	<p>Why do we pay the United States to take all surplus power from Ontario?</p> <p>Why are we building the turbines when we don't need the power and have to give it away?</p>	<p>Ontario is connected to neighbouring electrical regions and electricity flows back and forth according to supply and demand.</p> <p>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 the United States and other markets fluctuates with market demand, although, the Independent Electricity System Operator (IESO) has recently set the minimum price for exported power to \$0 per megawatt hour.</p> <p>To find out more about the Ontario energy market and how it is operated please go to: <a href="http://www.ieso.ca">www.ieso.ca</a></p> <p>New power plants are required to meet the increasing demand for electricity and to replace aging power plants.</p>
	Require additional information about the 10% discount to the Maui Hawaii Wind Farm.	We are unsure of what discount you are referring to. Hawaii does have an initiative to increase renewable power generation in an effort to decrease their dependence on oil imports for power generation. There are a set of increasing targets for renewable power generation, please refer to <a href="http://www.heco.com">www.heco.com</a> for more information.

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	<p>Concern about the turbines being too costly and too far away from where the electricity is used.</p> <p>I can't afford the power.</p>	<p>Utilities around the world continue to recognize the value wind energy can play within a larger interconnected electrical transmission system as a cost competitive form of new build generation.</p> <p>This project will deliver power to the Ontario transmission system which delivers electrical power to all of Ontario, including the local area to the project. The transmission system is designed and sized to deliver power to the electrical loads both as they currently exist, and as new electrical loads are brought online.</p>
	<p>How much energy surplus will be created by wind turbines? And at what additional cost per kilowatt to produce? Do we not already have in place cheap domestic energy?</p>	<p>The project is contracted to deliver power to replace infrastructure that will be decommissioned and to meet increased demand.</p> <p>The cost of the power produced is set by the Ontario Power Authority (OPA) at the contract rate of 13.5 cents per kW-hour.</p> <p>Existing forms of generation have varying life spans, and the OPA is issuing contracts for wind power to replace and augment existing generation.</p>
	<p>How can this ever be economically feasible unless we get the jobs back in this province from China, US or elsewhere?</p>	<p>The Feed in Tariff (FIT) program includes a domestic content requirement which requires projects to use components manufactured in Ontario. Ontario's Green Energy Act, its regulations and the design of the FIT program have attracted manufacturers of renewable energy components to Ontario to spur the economy and generate jobs.</p> <p>For example, Suncor is proposing to use blades manufactured in Tillsonburg; steel plates from an Ontario foundry; tower sections and heat exchangers manufactured in Ontario and consultants, accountants and legal counsel who are residents of Ontario.</p>
	<p>Are the economics viable for Ontarians as an investment? Without the feed in tariff there would be no</p>	<p>As a new build form of generation, the economics of wind energy are viable compared to other new build generation options. It would be inaccurate to compare the costs of new power generation to existing power plants. In order</p>

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	turbines.	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.
Support	I am in support of wind energy for the benefit of society and as a good replacement to coal.	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.
Health (10)	I question the “data clearly concludes that wind turbines are not harmful to human health” when Nina Pierpont has done a study that clearly concludes that there are health issues. Even the province has admitted that there are negative health effects.	<p>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.</p> <p>The Ontario Chief Medical Officer’s 2010 report, which included a review of Nina Pierpont’s research that you refer to, concluded that there is ‘no scientific evidence of any direct causal link between wind turbines and adverse health effects.</p> <p><a href="http://health.gov.on.ca/en/common/ministry/publications/reports/wind_turbine/wind_turbine.pdf">http://health.gov.on.ca/en/common/ministry/publications/reports/wind_turbine/wind_turbine.pdf</a></p>
	Why can’t you wait until the Federal Health Study is completed?	<p>Health Canada, in collaboration with Statistics Canada, announced that it will conduct a research study to explore the relationship between wind turbine noise and health effects reported by, and objectively measured in, people living near wind power developments. Suncor is supportive of additional peer reviewed scientific studies on the topic and is committed to improving our best practices of wind power project design and operation as these studies draw scientifically peer reviewed conclusions on the topic.</p> <p>Suncor has contractual commitments related to the in-service date for the</p>

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		<p>Cedar Point wind power project, if approved. At the current time, those contractual obligations do not allow for a delay until the completion of the federal health study.</p>
	<p>People are upset about the health effects on people, (especially children), livestock and pets. Scientists have not studied the full effects of these wind projects.</p> <p>Have suffered sleeplessness at the Proof Line/Lakeshore wind farm and have sold the farm and moving to Sarnia</p> <p>I believe children are sensitive to turbines. What will you do for me if my children get adverse health effects from your turbines?</p>	<p>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.</p> <p><i>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. This conclusion has been reached by numerous independent reviews of the scientific 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.”</i></p> <p>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.</p> <p><a href="http://health.gov.on.ca/en/common/ministry/publications/reports/wind_turbine/wind_turbine.pdf">http://health.gov.on.ca/en/common/ministry/publications/reports/wind_turbine/wind_turbine.pdf</a></p> <p>If the project is approved and constructed, there will be contact information available for the wind power project. Suncor will follow up regarding concerns raised in the event that they arise once the project is operational.</p>

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Property Values (4)	There are conflicting views on the effects of wind power projects on property value.	<p>There are conflicting views on the effects of wind power projects on property value.</p> <p>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.</p> <p>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 income above and beyond crop value on their land, which in part, has contributed to increases in farmland prices.</p> <p>A recent case study published on <a href="http://www.ontario-wind-resistance.org">www.ontario-wind-resistance.org</a> 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.</p> <p>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.</p> <p><a href="http://www.canwea.ca/news/release/release_e.php?newsId=159">http://www.canwea.ca/news/release/release_e.php?newsId=159</a></p> <p>Suncor will continue to review third party studies related to property values</p>
Property	We own 50 acres that is currently	The development process requires wind developers to place a “vacant lot

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Rights (2)	<p>building free. We want to be able to build anywhere on this land, with no restrictions due to a tower.</p> <p>With turbines being so close to neighbours, you are taking away people's right to develop their own properties beside the turbines.</p>	<p>receptor" in a location that is consistent with typical building patterns on any parcel that does not currently have a residence or an active building permit for a residence on that parcel. In effect, this protects the ability for any landowner in the project area to develop their properties and have all the same protections in terms of setbacks and sound exposure as an existing residence.</p> <p>The right to build on your property is not affected by the current provincial regulations associated with wind turbines. These regulations are only specific to where turbines are placed in relation to existing homes, and not vice versa.</p>
Opposition (18)	I am in 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.
	How far will ice fly off of the blades?	The turbines have operational controls (based on environmental conditions and equipment sensors) to prevent operation during blade icing events. Turbines are designed to monitor changes in conditions for icing which will stop the turbine to prevent unsafe operation.
Safety (3)	How far will pieces of the wind turbine fly if a fire occurs?	<p>It is important to note that the turbine model selected for this project does not have a gear box. This will dramatically reduce the quantity of lubricating oil present in the nacelle.</p> <p>In the event of a fire, the fire detection systems would shut down the turbine. As with all of Suncor's wind projects, this project will have an emergency response plan in which details the emergency response duties for Suncor and for municipal emergency response teams. Typically, the role of municipal emergency response is to assist Suncor in preventing access of the public onto the site while Suncor or their designate manages the emergency response on site.</p>

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Alternative Technology (3)	Why are you not pursuing solar instead of wind turbines.	<p>As an integrated energy company, Suncor is committed to developing and supplying energy options that meet the needs of both today and tomorrow. We believe that wind power – a clean, safe, and renewable energy source - is an important part of Canada’s future energy mix.</p> <p>Suncor has focused on wind and biofuels at this time. While we are not currently involved in solar power generation, we continue to stay abreast with these opportunities.</p>
	Why can't Suncor buy the Ontario Lambton Generating station in Port Lambton and convert coal to natural gas or biofuels or another green fuel.	That type of project is not currently part of Suncor’s business strategy for energy development.
Technology (4)	Suncor’s, as well as other IWT project proposals, cannot meet the Government objective to replace base load coal generation. Because of the irregular winds in Southern Ontario, the output factor of the IWT can be as low as 0.3%. In general, the power output fluctuates between 10% and 30% of the installed IWT capacity. IWT’s in Southern Ontario can only be considered a supplementary power source. To place these huge turbines in families’ backyards is immoral and destructive. It is a crime.	<p>Utilities around the world continue to recognize the value wind energy can play within a larger interconnected electrical transmission system as a cost competitive form of new build generation.</p> <p>Wind is an intermittent resource. Wind alone cannot replace baseload generation and does require a balanced energy system with other forms of generation to provide power when the wind is not blowing.</p>
	Require additional information about storage batteries.	Energy produced by the Project will be sent into the provincial power grid. The Independent Electricity System Operator (IESO) manages the overall supply

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		<p>and demand balance for Ontario. This Project does not have any storage capabilities planned.</p> <p>Battery storage for utility grid scale energy storage is still in the development stage.</p> <p>Suncor is committed to understanding how battery storage can be deployed with wind turbines. Suncor, along with its partner at Wintering Hills, has submitted a funding request to the Climate Change and Emissions Management Corporation (CCEMC) to support a demonstration scale project to understand and demonstrate the viability of battery storage.</p> <p>For more information please refer to <a href="http://ccec.ca/wp-content/uploads/2012/12/Renewable-Energy-Website-Project-Descriptions.pdf">http://ccec.ca/wp-content/uploads/2012/12/Renewable-Energy-Website-Project-Descriptions.pdf</a></p>
	<p>What is or are there any limitations on future expansions of turbine generator sizes already installed?</p>	<p>Once installed the turbines cannot easily be expanded in size to higher output ratings. The mechanical limits of the towers and foundations, electrical limits of the collection system, and sound output profile used to model the project may restrict significant changes to the turbines at their locations.</p>
	<p>How long will it be before the turbines look worn and rusty and an “eyesore”</p>	<p>Suncor intends to maintain the equipment regarding both appearance and function for the life of the project.</p>
<p>Tourism</p>	<p>The wind turbines have a negative impact on tourism</p>	<p>Renewable energy projects can be marketed as a tourism feature which may result in additional economic benefits to the local community.</p> <p>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</p>



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		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 (4)	The wind turbines are taking up valuable farm land. Eating and growing locally owned produce is green as well. Why are we putting these turbines in good farming areas?	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.
	<p>Why wouldn't you keep turbines away from schools? People feel that they should be kept 2 km away.</p> <p>We need to know what options there are if we don't want to send our children to Aberarder School. We don't want these turbines surrounding this school.</p>	<p>In response to stakeholder concerns at previous open houses Suncor removed turbines 68 and 49 from our proposed layout which were 1,023 m and 1,182 m, from the school respectively.</p> <p>As a result, the closest proposed turbine to the Aberarder School (Turbine 43) is 1,207 m away.</p>
Setback (6)	It is the expectation that Suncor can meet or exceed guidelines to improve their image. How does Suncor feel about locating wind turbines on a massive scale closer to people's homes than has been done anywhere else in the world, Take note what other countries and provinces are doing – set backs of 2km are a must.	<p>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. This average increases to 771 metres when measuring only to non-participating residences.</p> <p>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/native">http://www.ene.gov.on.ca/stdprodconsume/groups/lr/@ene/documents/native</a></p>

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		<p><a href="#">docs/stdprod_085127.pdf</a></p>
	<p>I am requesting more information about setbacks from property line.</p>	<p>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).</p>
	<p>Suncor is forcing a 500 foot unsafe setback without accepting the safer minimum of 2km setback of the local government of Plympton-Wyoming by taking its citizens to court.</p>	<p>Provincial regulations set out the guidelines for setback in order to protect public health and safety. Our project is designed in accordance with these provincial regulations. Suncor is not using a 500 foot setback. The minimum allowable is 550 meters. On average, the distance from Suncor’s proposed turbines to the nearest house is 734 metres. This average increases to 771 metres when measuring only to non-participating residences.</p>
<p>Location (10)</p>	<p>Why don't you move the turbines to remote areas and conduct R&amp;D around efficient transmission.</p> <p>Turbines are industrial and belong in an industrial location (i.e. in the North or other sparsely populated areas would make a better location).</p> <p>Place the 9 alternate turbine locations in the back yards of the Provincial politicians and Suncor employees that want them.</p>	<p>The project is located based on a number of factors, including wind resource and proximity to a transmission system with available capacity.</p> <p>Locating any form of power generation long distances from the areas where power is used creates significant transmission losses (loss of electricity due to resistance of electrical transmission lines), and is considerably more costly. There are currently transmission constraints in the Northern Ontario grid limiting the amount of generation that can reach more populated areas.</p>

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	<p>Units 41, 43, 44, 47, 48, 50, 51, 53 and 54 are all too close.</p> <p>Please eliminate turbine 71 due to proximity to four residential properties</p> <p>Turbines 31, 32, 34, 35 should be removed due to concerns over children sensitivity and bird migration.</p> <p>Eliminate turbine 39 (will impact my family and my sons family). Also impacting my family is 44, 47,48 and 41.</p> <p>#39 (this one is too close to the lake and development), #30 the neighbour on Lakeshore Rd has an airfield.</p> <p>Turbines 31, 32, 34, 35 are of major concern to us. We have had no say where these turbines will go and three of them will be our new backyard view.</p> <p>Please set back turbine 18 in line with others. Shadow flicker, in line with King St may cause “drive-offs” at the curve, inhibits future north expansion sic (of Forest).</p>	<p>We thank you for your comments. We currently have 9 alternate positions, we will take these comments into consideration as we continue to develop our project.</p>
Natural	Suncor will be destroying natural	As with all structures, there are encounters between turbines and birds and

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Environment (4)	<p>habitat of animals and birds.</p> <p>What are the effects on migratory birds?</p>	<p>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.</p> <p>Once in operation, the project is required to monitor mortality levels of birds and bats in the area of the turbines, for a period of at least 2 years. If mortality exceeds the thresholds set out by the MNR, additional mitigation and contingency measures are required to be implemented.</p> <p>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.</p>
Consultation (14)	Talk to Ontario about Municipalities being given priority for emergency power based on installed megawatts.	Thank you for your comment. We will forward your suggestion to the Ontario government.
	Felt there was very little consultation with the community in “Do we want these?” because of the Green Energy Act. Why doesn’t Suncor hold an open meeting instead of these useless open houses.	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. We believe this approach leads to the most effective way of communication between stakeholders and Project representatives.
	The project is dividing the community and creating tension between neighbours.	<p>We recognize that support for our projects, and for wind energy development in general is not unanimous.</p> <p>We appreciate all input received through the public consultation process and</p>

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	<p>There has not been a democratic process to approve all the turbines among communities. We live here, grew up here, have emotional connections to the area, we want to raise our children here. In some cases, the turbines are closer to our homes than the farmers who signed leases. This is not fair. We should be either reimbursed for the loss of enjoyment and property values or the turbines should be removed.</p>	<p>want to understand all points of view to build the best project possible.</p> <p>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 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.</p>
	<p>Public needs to know ahead of time and where all transmission lines and feeders will be located.</p>	<p>Suncor has selected and shown the locations of collection and transmission lines including which side of the road they are proposed to be located on. Please refer to the draft Project Description Report, figures 2.1 to 2.10. This report can be found on the Cedar Point Website.</p> <p><a href="http://www.suncor.com/cedarpointwind">www.suncor.com/cedarpointwind</a></p> <p>These locations are subject to consultation with the right of way owner.</p>
	<p>Why is it so hard for landowners who signed leases to get out of the leases if the turbines have yet to be built?</p>	<p>We encourage any project landowner who has concerns with their agreement with Suncor to contact us directly.</p>
	<p>Hopefully Suncor will take another look at sites and choose to peacefully find a solution with the municipality of Plympton-Wyoming (taking the Municipality to court, put the mega</p>	<p>Provincial regulations set out the guidelines for setback in order to protect public health and safety. The 550 m setback is a minimum distance requirement set by the Ministry of the Environment. Suncor is committed to working in accordance with all governing laws and regulations in those jurisdictions where we do business.</p>

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	turbines in so there are fewer and placing them away from houses and neighbours). Suncor needs to set an example and work with the municipality and the community.	Suncor's intention is to work collaboratively with all Municipalities in the development of any project.
Other	Why doesn't Suncor limit its operations to the Sarnia refinery and focus its efforts on making that location function efficiently and in an environmentally responsible way?	As an integrated energy company, Suncor is committed to developing and supplying energy options that meet the needs of both today and tomorrow. We believe that wind power – a clean, safe, and renewable energy source - is an important part of Canada's future energy mix.