

RENEWABLE ENERGY APPROVALNUMBER 7681-8UAKR7
Issue Date: December 20, 2012

Ostrander Point GP Inc., as general partner for and on
behalf of Ostrander Point Wind Energy LP
158 Casimir Street, 2nd Floor
Port Perry, Ontario
L9L 1B7

Project Helmer Road and Babylon Road
Location: Helmer Road and Babylon Road South Marysburgh
Prince Edward County,
K0K 2T0

You have applied in accordance with Section 47.4 of the Environmental Protection Act for approval to engage in a renewable energy project in respect of a Class 4 Wind facility consisting of the following:

- the construction, installation, operation, use and retiring of a 9 wind turbine generator, Class 4 wind facility with a total name plate capacity of 22.5 megawatts.

For the purpose of this renewable energy approval, the following definitions apply:

1. "Acoustic Assessment Report" means the report included in the Application and entitled *Noise Impact Assessment, Ostrander Point Wind Park*, dated July 15, 2010, prepared by Helimax Energy Inc. and signed by Shant Dokouzian, Senior Project Manager;
2. "Acoustic Audit - Emission" means an investigative procedure that is compliant with the IEC Standard 61400-11 and consisting of measurements and/or acoustic modelling of noise emissions produced by wind turbine generators, assessed to determine compliance with the manufacturer's noise (acoustic) equipment specifications and emission data of the wind turbine generators, included in the Acoustic Assessment Report;
3. "Acoustic Audit - Immission" means an investigative procedure consisting of measurements and/or acoustic modelling of all sources of noise emissions due to the operation of the Equipment, assessed to determine compliance with the Noise Performance Limits set out in this Approval;

4. "Acoustic Audit Report-Emission" means a report presenting the results of the Acoustic Audit - Emission;
5. "Acoustic Audit Report-Immission" means a report presenting the results of the Acoustic Audit - Immission;
6. "Acoustical Consultant" means a person currently active in the field of environmental acoustics and noise/vibration control, who is knowledgeable about Ministry noise guidelines and procedures and has a combination of formal university education, training and experience necessary to assess noise emissions from wind facilities;
7. "Act" means the *Environmental Protection Act* , R.S.O 1990, c.E.19, as amended;
8. "Adverse Effect" has the same meaning as in the Act;
9. "Application" means the application for a Renewable Energy Approval dated May 16, 2011, and signed by Michael J. Lord, Vice President, Project Development, Gilead Power Corporation, and all supporting documentation submitted with the application, including amended documentation submitted up to the date this Approval is issued;
10. "Approval" means this Renewable Energy Approval issued in accordance with Section 47.4 of the Act, including any schedules to it;
11. "A-weighting" means the frequency weighting characteristic as specified in the International Electrotechnical Commission (IEC) Standard 61672, and intended to approximate the relative sensitivity of the normal human ear to different frequencies (itches) of sound. It is denoted as "A";
12. "A-weighted Sound Pressure Level" means the Sound Pressure Level modified by application of an A-weighting network. It is measured in decibels, A-weighted, and denoted "dBA";
13. "Class 1 Area" means an area with an acoustical environment typical of a major population centre, where the background sound level is dominated by the activities of people, usually road traffic, often referred to as "urban hum";
14. "Class 2 Area" means an area with an acoustical environment that has qualities representative of both Class 1 and Class 3 Areas:
 1. sound levels characteristic of Class 1 during daytime (07:00 to 19:00 or to 23:00 hours);
 2. low evening and night background sound level defined by natural environment and infrequent human activity starting as early as 19:00 hours (19:00 or 23:00 to 07:00 hours);
 3. no clearly audible sound from stationary sources other than from those under impact assessment.

15. "Class 3 Area" means a rural area with an acoustical environment that is dominated by natural sounds having little or no road traffic, such as the following:
 1. a small community with less than 1000 population;
 2. agricultural area;
 3. a rural recreational area such as a cottage or a resort area; or
 4. a wilderness area.
16. "Company" means Ostrander Point GP Inc., as general partner for and on behalf of Ostrander Point Wind Energy LP, the partnership under the laws of Ontario, and includes its successors and assignees;
17. "Compliance Protocol for Wind Turbine Noise" means the Ministry document entitled, Compliance Protocol for Wind Turbine Noise, Guideline for Acoustic Assessment and Measurement, PIBS# 8540e;
18. "Decibel" means a dimensionless measure of Sound Level or Sound Pressure Level, denoted as dB;
19. "Director" means a person appointed in writing by the Minister of the Environment pursuant to section 5 of the Act as a Director for the purposes of section 47.5 of the Act;
20. "District Manager" means the District Manager of the appropriate local district office of the Ministry where the Facility is geographically located;
21. "Equipment" means the nine (9) wind turbine generators and one (1) transformer substation, identified in this Approval and as further described in the Application, to the extent approved by this Approval;
22. "Equivalent Sound Level" is the value of the constant sound level which would result in exposure to the same total A-weighted energy as would the specified time-varying sound, if the constant sound level persisted over an equal time interval. It is denoted L_{eq} and is measured in dB A-weighting (dBA);
23. "Facility" means the renewable energy generation facility, including the Equipment, as described in this Approval and as further described in the Application, to the extent approved by this Approval;
24. "IEC Standard 61400-11" means the International Standard IEC Standard 61400-11, Wind turbine generator systems – Part 11: Acoustic noise measurement techniques, 2006;

25. "Independent Acoustical Consultant" means an Acoustical Consultant who is not representing the Company and was not involved in preparing the Acoustic Assessment Report. The Independent Acoustical Consultant shall not be retained by the Acoustical Consultant involved in the noise impact assessment;
26. "Ministry" means the ministry of the government of Ontario responsible for the Act and includes all officials, employees or other persons acting on its behalf;
27. "Noise Guidelines for Wind Farms" means the Ministry document entitled, "Noise Guidelines for Wind Farms - Interpretation for Applying MOE NPC Publications to Wind Power Generation Facilities", dated October 2008;
28. "Noise Receptor" has the same meaning as in O. Reg. 359/09;
29. "Publication NPC-103" means Publication NPC-103, Measurement Procedures, August 1978;
30. "Publication NPC-233" means Publication NPC-233, Information To Be Submitted For Approval of Stationary Sources Of Sound, October, 1995;
31. "O. Reg. 359/09" means Ontario Regulation 359/09 "Renewable Energy Approvals under Part V.0.1 of the Act" made under the Act;
32. "Point of Reception" has the same meaning as in the Noise Guidelines for Wind Farms and is subject to the same qualifications described in that document;
33. "Sound Level" means the A-weighted Sound Pressure Level;
34. "Sound Level Limit" is the limiting value described in terms of the one hour A-weighted Equivalent Sound Level L_{eq} ;
35. "Sound Power Level" means ten times the logarithm to the base of 10 of the ratio of the sound power (Watts) of a noise source to standard reference power of 10^{-12} Watts;
36. "Sound Pressure" means the instantaneous difference between the actual pressure and the average or barometric pressure at a given location. The unit of measurement is the micro Pascal (μ Pa);
37. "Sound Pressure Level" means twenty times the logarithm to the base 10 of the ratio of the effective pressure (μ Pa) of a sound to the reference pressure of 20 μ Pa;
38. "Third-party consultant" means an environmental professional who does not represent the Company and has knowledge and experience in ecology. The Third Party Consultant must not have been involved in the natural heritage assessment associated with the Application;
39. "UTM" means Universal Transverse Mercator coordinate system.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

A - GENERAL

A1. The Company shall construct, install, use, operate, maintain and retire the Facility in accordance with the terms and conditions of this Approval and the Application and in accordance with the following schedules attached hereto:

Schedule A - Facility Description

Schedule B - Coordinates of the Equipment and Noise Specifications

A2. Where there is a conflict between a provision of this Approval and any document submitted by the Company, the conditions in this Approval shall take precedence. Where there is a conflict between one or more of the documents submitted by the Company, the document bearing the most recent date shall take precedence.

A3. The Company shall ensure a copy of this Approval is:

(1) accessible, at all times, by Company staff operating the Facility and;

(2) submitted to the clerk of each local municipality and upper-tier municipality in which the Facility is situated.

A4. If the Company has a publicly accessible website, the Company shall ensure that the Approval and the Application are posted on the Company's publicly accessible website within five (5) business days of receiving this Approval.

A5. The Company shall, at least six (6) months prior to the anticipated retirement date of the entire Facility, or part of the Facility, review its Decommissioning Plan Report to ensure that it is still accurate. If the Company determines that the Facility cannot be decommissioned in accordance with the Decommissioning Plan Report, the Company shall provide the Director and District Manager a written description of plans for the decommissioning of the Facility.

A6. The Facility shall be retired in accordance with the Decommissioning Plan Report and any directions provided by the Director or District Manager.

A7. The Company shall provide the District Manager and the Director at least ten (10) days written notice of the following:

(1) the commencement of any construction or installation activities at the project location; and

(2) the commencement of the operation of the Facility.

A8. The Company shall ensure that necessary authorizations under the *Endangered Species Act (2007)* have been obtained prior to the commencement of construction.

B - EXPIRY OF APPROVAL

B1. Construction and installation of the Facility must be completed within three (3) years of the later of:

- (1) the date this Approval is issued; or
- (2) if there is a hearing or other litigation in respect of the issuance of this Approval, the date that this hearing or litigation is disposed of, including all appeals.

B2. This Approval ceases to apply in respect of any portion of the Facility not constructed or installed before the later of the dates identified in Condition B1.

C - NOISE PERFORMANCE LIMITS

C1. The Company shall ensure that:

- (1) the Sound Levels from the Equipment, at the Points of Reception identified in the Acoustic Assessment Report, comply with the Sound Level Limits set in the Noise Guidelines for Wind Farms, as applicable, and specifically as stated in the table below:

Wind Speed (m/s) at 10 m height	4	5	6	7	8	9	10
Sound Level Limits, dBA	40.0	40.0	40.0	43.0	45.0	49.0	51.0

- (2) the Equipment is constructed and installed at either of the following locations:
 - a) at the locations identified in Schedule B of this Approval; or
 - b) at a location that does not vary by more than 10 metres from the locations identified in Schedule B of this Approval and provided that,
 - i) the Equipment will comply with Condition C1 (1); and
 - ii) all setback prohibitions established under O. Reg. 359/09 are complied with.
- (3) the Equipment complies with the noise specifications set out in Schedule B of this Approval.

C2. If the Company determines that some or all of the Equipment cannot be constructed in accordance with Condition C1 (2), prior to the construction and installation of the Equipment in question, the Company shall apply to the Director for an amendment to the terms and conditions of the Approval.

- C3. Within three (3) months of the completion of the construction of the Facility, the Company shall submit to the Director a written confirmation signed by an individual who has the authority to bind the Company that the UTM coordinates of the “as constructed” Equipment comply with the requirements of Condition C1 (2).
- C4. The locations identified in Table 7-1 of the Acoustic Assessment Report as “Point of Reception ID” numbers 9, 10, 14 and 15, are specified as Noise Receptors for the purposes of subsection 54 (1.1) of O. Reg. 359/09 and subsection 35 (1.01) of O. Reg. 359/09.

D - ACOUSTIC AUDIT - IMMISSION and EMISSION (Transformer Sub-Station)

- D1. The Company shall carry out an Acoustic Audit of the transformer sub-station in accordance with the procedures set out in Publication NPC-103, and shall submit to the District Manager and the Director an Acoustic Audit Report prepared by an Independent Acoustical Consultant in accordance with the requirements of Publication NPC-233, no later than six (6) months after the commencement of the operation of the Facility.

E - ACOUSTIC AUDIT- EMISSION (Wind Turbines)

- E1. The Company shall carry out an Acoustic Audit - Emission of the acoustic emissions produced by the operation of the wind turbine generators in accordance with the following:
 - (1) the acoustic emission measurements shall be undertaken in accordance with the IEC Standard 61400-11;
 - (2) the acoustic emission measurements shall be performed by an Independent Acoustical Consultant; and
 - (3) the acoustic emission measurements shall be performed on two (2) of the wind turbine generators used in the Facility.
- E2. The Company shall submit to the District Manager and the Director an Acoustic Audit Report-Emission, prepared in accordance with Section 9 of the IEC Standard 61400-11 by an Independent Acoustical Consultant, no later than six (6) months after the commencement of the operation of the Facility.

F - STORMWATER MANAGEMENT

- F1. The Company shall employ best management practices for stormwater management and sediment and erosion control during construction, installation, use, operation, maintenance and retiring of the Facility, as described in the Construction Plan Report included in the Application, dated May 2011.
- F2. Within six (6) months of the completion of the construction of the Facility, the Company shall provide the District Manager with a written description of post-construction stormwater management conditions.

G - WATER TAKING ACTIVITIES

G1. The Company shall not take more than 50,000 litres of water on any day by any means during the construction, installation, use, operation, maintenance and retiring of the Facility.

H - SEWAGE WORKS OF THE TRANSFORMER SPILL CONTAINMENT FACILITY

H1. The Company shall design and construct a transformer spill containment facility which meets the following requirements:

- (1) the spill containment area serving the transformer shall have a minimum volume equal to the volume of the transformer oil and lubricants plus the volume equivalent to providing a minimum 24-hour duration, 25-year return storm capacity for the stormwater drainage area around the transformer under normal operating conditions;
- (2) The containment facility shall have an impervious concrete floor and walls sloped toward an outlet, maintaining a freeboard of 0.25 metres terminating approximately 0.30 metres above grade, with an impervious plastic liner or equivalent, and 1.0 metre layer of crushed stone within;
- (3) the containment pad shall drain to an oil control device, such as an oil/water separator, a pump-out sump, an oil absorbing material in a canister or a blind sump; and
- (4) the oil control device shall be equipped with an oil detection system and appropriate sewage appurtenances, as necessary (pumpout manhole, submersible pumps, level controllers, floating oil sensors, etc.) that allows for batch discharges or direct discharges, and for proper implementation of the monitoring program described in Condition H4.

H2. The Company shall:

- (1) as a minimum, check the oil detection system on a monthly basis and create a written record of the inspections;
- (2) ensure that the effluent is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film, sheen or foam on the receiving waters;
- (3) immediately identify and clean-up all losses of oil from the transformer;
- (4) upon identification of oil in the effluent pumpout, take immediate action to prevent the further occurrence of such loss; and

- (5) ensure that equipment and material for the containment, clean-up and disposal of oil and materials contaminated with oil are kept within easy access and in good repair for immediate use in the event of:
 - (a) loss of oil from the transformer
 - (b) a spill within the meaning of Part X of the Act, or
 - (c) the identification of an abnormal amount of oil in the effluent.

H3. The Company shall design, construct and operate the sewage works such that the concentration of the effluent parameter named in the table below does not exceed the maximum concentration objective shown for that parameter in the effluent, and shall comply with the following requirements:

Effluent Parameters	Maximum Concentration Objective
Oil and Grease	15mg/L

- (1) notify the District Manager as soon as reasonably possible of any exceedance of the maximum concentration objective set out in the table above;
- (2) take immediate action to identify the cause of the exceedance; and
- (3) take immediate action to prevent further exceedances.

H4. Upon commencement of the operation of the Facility, the Company shall establish and carry out the following monitoring program for the sewage works:

- (1) the Company shall collect and analyze the required set of samples at the sampling points listed in the table below in accordance with the measurement frequency and sample type specified for the effluent parameter, oil and grease, and create a written record of the monitoring:

Effluent Parameters	Measurement Frequency and Sample Points	Sample Type
Oil and Grease	B – Batch, i.e., for each discrete volume in the sump prior to pumpout; or Q – Quarterly for direct effluent discharge, i.e., four times over a year, relatively evenly spaced.	Grab

- (2) in the event of an exceedance of the maximum concentration objective set out in the table in Condition H3, the Company shall:
 - (a) increase the frequency of sampling to once per month, for each month that effluent discharges occurs, and

(b) provide the District Manager, on a monthly basis, with copies of the written record created for the monitoring until the District Manager provides written direction that monthly sampling and reporting is no longer required; and

(3) if over a period of twenty-four (24) months of effluent monitoring under Condition H4 (1), there are no exceedances of the maximum concentration set out in the table in Condition H3, the Company may reduce the measurement frequency of effluent monitoring to a frequency as the District Manager may specify in writing, provided that the new specified frequency is never less than annual.

H5. The Company shall comply with the following methods and protocols for any sampling, analysis and recording undertaken in accordance with Condition H4:

(1) Ministry of the Environment publication "Protocol for the Sampling and Analysis of Industrial/ Municipal Wastewater," January 1999, as amended from time to time by more recently published editions, and

(2) the publication "Standard Methods for the Examination of Water and Wastewater," 21st edition, 2005, as amended from time to time by more recently published editions.

I - NATURAL HERITAGE AND PRE- AND POST-CONSTRUCTION MONITORING

GENERAL

I1. The Company shall implement, prior to the construction of the project:

(1) the Environmental Effects Monitoring Plan for Wildlife and Wildlife Habitat, dated May 2011, as described in Appendix L of the Natural Heritage Assessment and Environmental Impact Study for the Ostrander Point Wind Energy Park; and,

(2) the commitments made in the Environmental Impact Study, dated May 2011, prepared by Stantec Consulting Ltd., and included in the Application,

I2. If the Company determines that it must deviate from either the Environmental Effects Monitoring Plan for Wildlife and Wildlife Habitat or the Environmental Impact Study, described in Condition I1, the Company shall contact the Ministry of Natural Resources and the Director, prior to making any changes to the Environmental Effects Monitoring Plan or the Environmental Impact Study, and follow any directions provided.

- (1) Prior to construction, and every 12 months thereafter, the Company shall review and, if required, update the Environmental Effects Monitoring Plan for Wildlife and Wildlife Habitat and the Environmental Impact Study described in Condition I1 to ensure methods and thresholds are consistent with any guidelines issued by the Ministry of Natural Resources in relation to bird and bats; namely "Bats and Bat Habitats: Guidelines for Wind Power Projects" dated July 2011 as amended and "Birds and Bird Habitats: Guidelines for Wind Power Projects" dated December 2011, as amended.

POST-CONSTRUCTION MONITORING – SIGNIFICANT WILDLIFE HABITAT

- I3. The Company shall implement the post-construction monitoring described in the Environmental Effects Monitoring Plan for Wildlife and Wildlife Habitat and the Environmental Impact Study, described in Condition I1 and I2(1). The plan shall include the following:
 - (1) Disturbance monitoring for Declining shrub/successional breeding bird habitat
 - (2) Disturbance monitoring for Landbird Migratory Stopover habitat
 - (3) Disturbance monitoring for amphibian woodland breeding habitat
 - (4) Creation and implementation of Alvar restoration and management plan that includes effectiveness monitoring and reporting.

POST CONSTRUCTION MONITORING - BIRD AND BAT MONITORING

THRESHOLDS AND MITIGATION

- I4. The Company shall contact the Ministry of Natural Resources and the Director if any of the following bird and bat mortality thresholds, as stated in the Environmental Effects Monitoring Plan for Wildlife and Wildlife Habitat for the Ostrander Wind Energy Park described in Conditions I1 and I2(1), are reached or exceeded:
 - (1) 10 bats per turbine per year;
 - (2) 14 birds per turbine per year at individual turbines or turbine groups;
 - (3) 2 raptors per wind power project per year;
 - (4) 10 or more birds at any one turbine during a single monitoring survey; or
 - (5) 33 or more birds (including raptors) at multiple turbines during a single monitoring survey.
- I5. If the bat mortality threshold described in Condition I4 (1) is reached or exceeded, the Company shall:
 - (1) implement operational mitigation measures consistent with those described in the Ministry of Natural Resources publication entitled "Bats and Bat Habitats: Guidelines for Wind Power Projects" dated July 2011, as amended.

- (2) increase cut-in speed to 5.5 m/s or feather wind turbine blades when wind speeds are below 5.5 m/s between sunset and sunrise, from July 15 to September 30 at all turbines, for the operating life of the Facility; and
 - (3) implement an additional three (3) years of effectiveness monitoring.
- I6. If the bat mortality threshold described in Condition I4(1) is reached or exceeded after operational mitigation is implemented in accordance with Condition I5, the Company shall prepare and implement a contingency plan, in consultation with the Ministry of Natural Resources, to address mitigation actions.
- I7. If either of the bird mortality thresholds described in Conditions I4(2) or I4(3) is reached or exceeded for turbines located within 120m of bird significant wildlife habitat, or if disturbance effects are realized at bird significant wildlife habitat within 120m of turbine(s) while monitoring is being implemented in accordance with Conditions I3, the Company shall implement immediate mitigation actions as described in the Environmental Impact Study and Environmental Effects Monitoring Plan described in Condition I1 and I2(1), and an additional three (3) years of effectiveness monitoring.
- I8. If either of the bird mortality thresholds described in Conditions I4(2) or I4(3) is reached or exceeded for turbines located outside 120 metres of bird significant wildlife habitat, the Company shall conduct two (2) years of subsequent scoped mortality monitoring and cause and effects monitoring. Following the completion of scoped monitoring, the Company shall implement operational mitigation for the operating life of the Facility, and effectiveness monitoring at individual turbines, for the first three (3) years following the implementation of mitigation.
- I9. If either of the bird mortality thresholds described in Conditions I4(4) or I4(5) is reached or exceeded, the Company shall implement contingency measures to address immediate mitigation actions which shall include:
 - (1) periodic shut-down of select turbines;
 - (2) blade feathering at specific times of year; or
 - (3) an alternate plan agreed to between the Company and the Ministry of Natural Resources.
- I10. If either of the bird mortality thresholds described in Conditions I4(2) or I4(3) is reached or exceeded while monitoring is being implemented in accordance with Conditions I7 or I8, or if either of the bird mortality thresholds described in Conditions I4(4) or I4(5) is reached or exceeded after mitigation is implemented in accordance with Condition I9, the Company shall contact the Ministry of Natural Resources and prepare and implement an appropriate response plan that shall include some or all of the following mitigation measures:
 - (1) increased reporting frequency to identify potential threshold exceedance;
 - (2) additional behavioural studies to determine factors affecting mortality rates;
 - (3) periodic shut-down of select turbines;

- (4) blade feathering at specific times of year; or
- (5) an alternate plan agreed to between the Company and the Ministry of Natural Resources.

THIRD PARTY MONITORING

- I11. The Company shall retain the services of a third party consultant to attend the implementation of:
- (1) the Environmental Effects Monitoring Plan for Wildlife and Wildlife Habitat, dated May 2011, as described in Attachment C of the Design and Operations Report for the Ostrander Point Wind Energy Park.
- I12. Prior to the implementation of the EEMP for Wildlife and Wildlife habitat, dated May 11, 2011, or other such date as agreed to in writing by the Director, the Company shall submit to the Director:
- (1) the name of the third party consultant;
 - (2) the name of the company where he/she is employed; and,
 - (3) the qualifications of the third party consultant.
- I13. The Company shall ensure that the third party consultant attend all on-site monitoring.
- I14. The Company shall ensure that all reports identified in conditions I15 through I17 have been reviewed by the third party consultant, and that written confirmation from the third party confirming the results of the reports is included in the reports.

REPORTING AND REVIEW OF RESULTS

- I15. The Company shall report, in writing, the results of the post-construction disturbance monitoring described in Conditions I3, to the Ministry of Natural Resources for three (3) years on an annual basis and within three (3) months of the end of each calendar year in which the monitoring took place, with the exception of the following:
- (1) If disturbance effects are realized at bird significant wildlife habitat within 120m of turbines while monitoring is being implemented in accordance with Conditions I3(1) and I3(2), the Company shall report disturbance effects to the Ministry of Natural Resources for the additional three (3) years of effectiveness monitoring described in Condition I7, on an annual basis and within three (3) months of completing the effectiveness monitoring for each year;
- I16. The Company shall report, in writing, bird and bat mortality levels to the Ministry of Natural Resources for three (3) years on an annual basis and within three (3) months of the conclusion of the November mortality monitoring, with the exception of the following:
- (1) if either of the bird mortality thresholds described in Conditions I4(4) or I4(5) is reached or exceeded, the Company shall report the mortality event to the Ministry of Natural Resources within 48 hours of observation;

- (2) for any and all mortality of species at risk (including a species listed on the Species at Risk in Ontario list as Extirpated, Endangered or Threatened under the provincial *Endangered Species Act, 2007*) that occurs, the Company shall report the mortality to the Ministry of Natural Resources within 24 hours of observation or the next business day;
- (3) if the bat mortality threshold described in Condition I4(1) is reached or exceeded, the Company shall report mortality levels to the Ministry of Natural Resources for the additional three (3) years of monitoring described in Condition I5, on an annual basis and within three (3) months of the conclusion of the October mortality monitoring for each year;
- (4) if either of the bird mortality thresholds described in Conditions I4(2) or I4(3) is reached or exceeded for turbines located within 120m of bird significant wildlife habitat, the Company shall report mortality levels to the Ministry of Natural Resources for the additional three (3) years of effectiveness monitoring described in Condition I7, on an annual basis and within (3) months of the conclusion of the November mortality monitoring for each year.
- (5) if either of the bird mortality thresholds described in Conditions I4(2) or I4(3) is reached or exceeded for turbines located outside 120 m of bird significant wildlife habitat, the Company shall report mortality levels to the Ministry of Natural Resources for the additional two (2) years of cause and effects monitoring described in Condition I8, on an annual basis and within three (3) months of the conclusion of the November mortality monitoring for each year; and
- (6) if the Company implements operational mitigation in accordance with Condition I8, the Company shall report mortality levels to the Ministry of Natural Resources for the three (3) years of subsequent effectiveness monitoring described in Condition I9, on an annual basis and within three (3) months of the conclusion of the November mortality monitoring for each year.

I17. The Company shall create an Alvar Restoration and Management Plan as described in the Environmental Effects Monitoring Plan and the Environmental Impact Study, including the following:

- (1) The plan shall be approved by the Ministry of Natural Resources prior to the commencement of construction.
- (2) The plan shall include activities that will enhance Alvar vegetation communities on site, by controlling non-native species, and include the restoration of three parcels (4.2ha total) of cultural meadow to Alvar by seeding or transplanting native Alvar species, and will include contingency measures.
- (3) The plan shall include a multi-year monitoring program that measures the success of enhancement and restoration activities.
- (4) The plan shall include communications activities, that at a minimum includes;
 - (a) Reporting to MNR on the results of the multi-year monitoring.
 - (b) Publishing of a report on the multi-year monitoring program to the company's website.

- I18. The Company shall publish all the following reports to the Company's website;
- (1) Any updates to the Environmental Effects Monitoring Plan as described in Condition I2(1) within 5 days of completion of the updates;
 - (2) An alternate plan agreed to between the Company and the Ministry of Natural Resources as described in Condition I9(3) within 5 days of submitting the final plan to MNR;
 - (3) An alternate plan agreed to between the Company and the Ministry of Natural Resources as described in Condition I10(5) within 5 days of submitting the final plan to MNR;
 - (4) Post construction disturbance monitoring as described in Condition I15 within 5 days of submitting the final report to MNR;
 - (5) Annual bird and bat mortality monitoring as described in Condition I16 with the exception of subsections I16(1) through to I16(6), within 5 days of submitting the final report to MNR;
 - (6) A report on the multi-year monitoring program as described in Condition I17(3), within 5 days of submitting the final report to the MNR;
 - (7) A report describing the results of radar mortality research as described in Condition I20, within 5 days of submitting the final report to the Director; and,
 - (8) A report on the technology of avian radar system as described in Condition I24, within 5 days of submitting the final report to the Director.

OPERATIONAL RADAR MORTALITY RISK MITIGATION SYSTEM

- I19. Prior to the operation of the facility and as part of a research project on bird and bat monitoring, the Company shall install and operate the Merlin Avian Radar System or an equivalent advanced radar system to be used for the early detection of bird and bat activity.
- I20. The Company shall prepare a report within one year of the installation and operation of the Merlin Avian Radar System or equivalent that includes, at a minimum:
- (1) A summary of the data collected;
 - (2) Identification of criteria for triggering further monitoring of approaching birds and bats when they are detected; and,
 - (3) An outline of specific mitigation measures to be implemented when reaching each trigger criteria.
- I22. The Company shall ensure that the report is reviewed by at least two researchers that are associated with an accredited Canadian University.
- I23. The Company shall provide the report to the Director once reviewed and ensure that this report is published on its website.
- I24. Three years after the installation and operation of the Merlin Avian Radar System or equivalent, the Company shall prepare a report that:
- (1) summarizes the results and provides conclusions on the effectiveness of the technology;
 - (2) provides recommendations for improving the use of the technology and incorporates its use on a permanent basis in the ongoing operations; and,

- (3) is submitted to a scientific journal which includes a peer review process.
- I25. The report must be reviewed by at least two researchers that are associated with an accredited Canadian University.
- I26. The Applicant shall provide the report to the Director once reviewed, and ensure that a copy of the report is published on its website.

J - TRAFFIC MANAGEMENT PLANNING

- J1. Within three (3) months of receiving this Approval, the Company shall prepare a Traffic Management Plan and provide it to Prince Edward County.
- J2. Within three (3) months of having provided the Traffic Management Plan to the Prince Edward County, the Company shall make reasonable efforts to enter into a Road Users Agreement with Prince Edward County.
- J3. If a Road Users Agreement has not been signed with Prince Edward County within three (3) months of having provided the Traffic Management Plan to Prince Edward County, the Company shall provide a written explanation to the Director as to why this has not occurred.

K - ARCHAEOLOGICAL RESOURCES

- K1. The Company shall implement all of the recommendations, if any, for further archaeological fieldwork and for the protection of archaeological sites found in the consultant archaeologist's report included in the Application, and which the Company submitted to the Ministry of Tourism, Culture and Sport in order to comply with clause 22 (2) (b) of O. Reg. 359/09.
- K2. Should any previously undocumented archaeological resources be discovered, the Company shall:
 - (1) cease all alteration of the area in which the resources were discovered immediately;
 - (2) engage a consultant archaeologist to carry out the archaeological fieldwork necessary to further assess the area and to either protect and avoid or excavate any sites in the area in accordance with the *Ontario Heritage Act*, the regulations under that act and the Ministry of Tourism, Culture and Sport's *Standards and Guidelines for Consultant Archaeologists*; and
 - (3) notify the Director as soon as reasonably possible.

L - COMMUNITY LIAISON COMMITTEE

- L1. Within three (3) months of receiving this Approval, the Company shall make reasonable efforts to establish a Community Liaison Committee. The Community Liaison Committee shall be a forum to exchange ideas and share concerns with interested residents and members of the public. The Community Liaison Committee shall be established by:
- (1) publishing a notice in a newspaper with general circulation in each local municipality in which the project location is situated; and
 - (2) posting a notice on the Company's publicly accessible website, if the Company has a website; to notify members of the public about the proposal for a Community Liaison Committee and invite residents living within a one (1) kilometer radius of the Facility that may have an interest in the Facility to participate on the Community Liaison Committee.
- L2. The Company may invite other members of stakeholders to participate in the Community Liaison Committee, including, but not limited to, general public, local municipalities, local conservation authorities, Aboriginal communities, federal or provincial agencies, and local community groups.
- L3. The Community Liaison Committee shall consist of at least one Company representative who shall attend all meetings.
- L4. The purpose of the Community Liaison Committee shall be to:
- (1) act as a liaison facilitating two way communications between the Company and members of the public with respect to issues relating to the construction, installation, use, operation, maintenance and retirement of the Facility;
 - (2) provide a forum for the Company to provide regular updates on, and to discuss issues or concerns relating to, the construction, installation, use, operation, maintenance and retirement of the Facility with members of the public; and
 - (3) ensure that any issues or concerns resulting from the construction, installation, use, operation, maintenance and retirement of the Facility are discussed and communicated to the Company.
- L5. The Community Liaison Committee shall be deemed to be established on the day the Director is provided with written notice from the Company that representative Community Liaison Committee members have been chosen and a date for a first Community Liaison Committee meeting has been set.
- L6. If a Community Liaison Committee has not been established within three (3) months of receiving this Approval, the Company shall provide a written explanation to the Director as to why this has not occurred.

- L7. The Company shall ensure that the Community Liaison Committee operates for a minimum period of two (2) years from the day it is established. During this two (2) year period, the Company shall ensure that the Community Liaison Committee meets a minimum of two (2) times per year. At the end of this two (2) year period, the Company shall contact the Director to discuss the continued operation of the Community Liaison Committee.
- L8. The Company shall ensure that all Community Liaison Committee meetings are open to the general public.
- L9. The Company shall provide administrative support for the Community Liaison Committee including, at a minimum:
- (1) providing a meeting space for Community Liaison Committee meetings;
 - (2) providing access to resources, such as a photocopier, stationery, and office supplies, so that the Community Liaison Committee can:
 - (a) prepare and distribute meeting notices;
 - (b) record and distribute minutes of each meeting; and
 - (c) prepare reports about the Community Liaison Committee's activities.
- L10. The Company shall submit any reports of the Community Liaison Committee to the Director and post it on the Company's publicly accessible website, if the Company has a website.
- L11. The Company shall ensure that all documents described in Condition I18 are made available to the Community Liaison Committee.

M - OPERATION AND MAINTENANCE

- M1. Prior to the commencement of the operation of the Facility, the Company shall prepare a written manual for use by Company staff outlining the operating procedures and a maintenance program for the Equipment that includes as a minimum the following:
- (1) routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers;
 - (2) emergency procedures;
 - (3) procedures for any record keeping activities relating to operation and maintenance of the Equipment; and
 - (4) all appropriate measures to minimize noise emissions from the Equipment.

- M2. The Company shall;
- (1) update, as required, the manual described in Condition M1; and
 - (2) make the manual described in Condition M1 available for review by the Ministry upon request.
- M3. The Company shall ensure that the Facility is operated and maintained in accordance with the Approval and the manual described in Condition M1.

N - RECORD CREATION AND RETENTION

- N1. The Company shall create written records consisting of the following:
- (1) an operations log summarizing the operation and maintenance activities of the Facility;
 - (2) within the operations log, a summary of routine and Ministry inspections of the Facility; and
 - (3) a record of any complaint alleging an Adverse Effect caused by the construction, installation, use, operation, maintenance or retirement of the Facility.
- N2. A record described under Condition N1 (3) shall include:
- (1) a description of the complaint that includes as a minimum the following:
 - (a) the date and time the complaint was made;
 - (b) the name, address and contact information of the person who submitted the complaint;
 - (2) a description of each incident to which the complaint relates that includes as a minimum the following:
 - (a) the date and time of each incident;
 - (b) the duration of each incident;
 - (c) the wind speed and wind direction at the time of each incident;
 - (d) the ID of the Equipment involved in each incident and its output at the time of each incident;
 - (e) the location of the person who submitted the complaint at the time of each incident; and
 - (3) a description of the measures taken to address the cause of each incident to which the complaint relates and to prevent a similar occurrence in the future.

N3. The Company shall retain, for a minimum of five (5) years from the date of their creation, all records described in Condition N1, and make these records available for review by the Ministry upon request.

O - NOTIFICATION OF COMPLAINTS

O1. The Company shall notify the District Manager of each complaint within two (2) business days of the receipt of the complaint.

O2. The Company shall provide the District Manager with the written records created under Condition N2 within eight (8) business days of the receipt of the complaint.

P - CHANGE OF OWNERSHIP

P1. The Company shall notify the Director in writing, and forward a copy of the notification to the District Manager, within thirty (30) days of the occurrence of any of the following changes:

- (1) the ownership of the Facility;
- (2) the operator of the Facility;
- (3) the address of the Company;
- (4) the partners, where the Company is or at any time becomes a partnership and a copy of the most recent declaration filed under the *Business Names Act*, R.S.O. 1990, c.B.17, as amended, shall be included in the notification; and
- (5) the name of the corporation where the Company is or at any time becomes a corporation, other than a municipal corporation, and a copy of the most current information filed under the *Corporations Information Act*, R.S.O. 1990, c. C.39, as amended, shall be included in the notification.

Q - ABORIGINAL CONSULTATION

Q1. During the construction, installation, and operation of the Facility, the Company shall:

- (1) maintain communications with interested Aboriginal communities;
- (2) create and maintain written records of the communications; and,
- (3) make the written records available for review by the Ministry upon request

Q2. The Company shall fulfil all commitments made to Aboriginal communities during the construction, installation, and operation of the Facility, including but not limited to, providing the following to interested Aboriginal communities that have requested or may request it:

- (1) updated non-confidential project information, including the results of monitoring activities undertaken and copies of additional archaeological assessment reports that may be prepared; and;
- (2) updates on key steps in the construction, installation, and operation phases of the Facility, including notice of the commencement of construction activities at the project location.

Q3. If an interested Aboriginal community requests a meeting to obtain non-confidential information relating to the construction, installation, and operation of the Facility, the Company shall use reasonable efforts to arrange and participate in such a meeting.

Q4. If any archaeological resources of Aboriginal origin are found during the construction of the Facility, the Company shall:

- (1) notify any Aboriginal community considered likely to be interested or which has expressed an interest in such finds; and,
- (2) arrange and participate in any meeting requested by an interested Aboriginal community to discuss the archaeological find(s) and/or the use of Aboriginal archaeological liaisons.

SCHEDULE A

Facility Description

The Facility shall consist of the construction, installation, operation, use and retiring of the following:

- (a) Nine (9) or less wind turbine generators each rated at a maximum of 2.5 megawatts generating output capacity with a maximum total name plate capacity of 22.5 megawatts, designated as source ID Nos. WTG 1 through WTG 9, each with a hub height of eighty-five (85) metres above grade, and sited at the locations shown in Schedule B, in accordance with Condition C1(2)(b); and
- (b) associated ancillary equipment, systems and technologies including one (1) 25 mega-volt-ampere (MVA) transformer substation, on-site access roads, underground cabling and overhead distribution lines,

all in accordance with the Application.

SCHEDULE B

Coordinates of the Equipment and Noise Specifications

Coordinates of the Equipment are listed below in UTM, Z17-NAD83 projection:

Table B1: Coordinates and Maximum Sound Power Levels of Wind Turbine Generators and Transformer Substation

Source ID	Maximum Sound Power Level (dBA)	Easting (m)	Northing (m)	Source Description
WTG 1	105	338,354	4,862,657	See Table B2 below
WTG 2	105	338,659	4,862,365	See Table B2 below
WTG 3	105	339,358	4,862,474	See Table B2 below
WTG 4	105	338,961	4,862,066	See Table B2 below
WTG 5	105	338,918	4,862,950	See Table B2 below
WTG 6	105	339,164	4,863,668	See Table B2 below
WTG 7	105	339,705	4,862,738	See Table B2 below
WTG 8	105	339,066	4,863,287	See Table B2 below
WTG 9	105	340,311	4,862,906	See Table B2 below
Sub	92	338,868	4,863,763	25 MVA transformer substation, See Table B3 below

Note: The Maximum Sound Power Level of Source ID "Sub" does not include the applicable 5 dB tonal penalty described in the Noise Guidelines for Wind Farms.

Table B2: Maximum Sound Power Spectrum (dB Lin) of Wind Turbine Generators

WTG 1 - 9	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
Lw (dB Lin)	112.9	109.3	108.0	103.2	98.3	93.8	86.2	71.8

Table B3 : Maximum Sound Power Spectrum (dB Lin) of Transformer Substation

Sub	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
Lw (dB Lin)	98.3	96.3	91.6	89.5	88.0	81.6	73.1	67.1

The reasons for the imposition of these terms and conditions are as follows:

1. Condition A1 and A2 are included to ensure that the Facility is constructed, installed, used, operated, maintained and retired in the manner in which it was described for review and upon which Approval was granted. These conditions are also included to emphasize the precedence of conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Condition A3 and A4 are included to require the Company to provide information to the public and the local municipality.
3. Condition A5 and A6 are included to ensure that final retirement of the Facility is completed in an aesthetically pleasing manner, in accordance with Ministry standards, and to ensure long-term protection of the health and safety of the public and the environment.
4. Condition A7 is included to require the Company to inform the Ministry of the commencement of activities related to the construction, installation and operation of the Facility.
5. Condition B is intended to limit the time period of the Approval.
6. Condition C1 is included to provide the minimum performance requirement considered necessary to prevent an Adverse Effect resulting from the operation of the Equipment and to ensure that the noise emissions from the Equipment will be in compliance with applicable limits set in the Noise Guidelines for Wind Farms.
7. Conditions C2, C3 and C4 are included to ensure that the Equipment is constructed, installed, used, operated, maintained and retired in a way that meets the regulatory setback prohibitions set out in O. Reg. 359/09.
8. Conditions D, E are included to require the Company to gather accurate information so that the environmental noise impact and subsequent compliance with the Act, O. Reg. 359/09, the Noise Guidelines for Wind Farms and this Approval can be verified.
9. Condition F, G, H, I and J are included to ensure that the Facility is constructed, installed, used, operated, maintained and retired in a way that does not result in an Adverse Effect or hazard to the natural environment or any persons.
10. Condition K is included to protect archaeological resources that may be found at the project location.
11. Condition L is included to ensure continued communication between the Company and the local residents.
12. Condition M is included to emphasize that the Equipment must be maintained and operated according to a procedure that will result in compliance with the Act, O. Reg. 359/09 and this Approval.
13. Condition N is included to require the Company to keep records and provide information to the Ministry so that compliance with the Act, O. Reg. 359/09 and this Approval can be verified.

14. Condition O is included to ensure that any complaints regarding the construction, installation, use, operation, maintenance or retirement of the Facility are responded to in a timely and efficient manner.
15. Condition P is included to ensure that the Facility is operated under the corporate name which appears on the application form submitted for this Approval.
16. Condition Q is included to require the Company to ensure continued communication between the Company and Aboriginal communities.

NOTICE REGARDING HEARINGS

In accordance with Section 139 of the Environmental Protection Act, within 15 days after the service of this notice, you may by further written notice served upon the Director, the Environmental Review Tribunal and the Environmental Commissioner, require a hearing by the Tribunal.

In accordance with Section 47 of the Environmental Bill of Rights, 1993, the Environmental Commissioner will place notice of your request for a hearing on the Environmental Registry.

Section 142 of the Environmental Protection Act provides that the notice requiring the hearing shall state:

1. The portions of the renewable energy approval or each term or condition in the renewable energy approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The signed and dated notice requiring the hearing should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The renewable energy approval number;
6. The date of the renewable energy approval;
7. The name of the Director;
8. The municipality or municipalities within which the project is to be engaged in;

This notice must be served upon:

The Secretary*
 Environmental Review Tribunal
 655 Bay Street, 15th Floor
 Toronto, Ontario
 M5G 1E5

AND

The Environmental Commissioner
 1075 Bay Street, 6th Floor
 Suite 605
 Toronto, Ontario
 M5S 2B1

AND

The Director
 Section 47.5, *Environmental Protection Act*
 Ministry of the Environment
 2 St. Clair Avenue West, Floor 12A
 Toronto, Ontario
 M4V 1L5

*** Further information on the Environmental Review Tribunal’s requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca**

Under Section 142.1 of the Environmental Protection Act, residents of Ontario may require a hearing

by the Environmental Review Tribunal within 15 days after the day on which notice of this decision is published in the Environmental Registry. By accessing the Environmental Registry at www.ebr.gov.on.ca, you can determine when this period ends.

Approval for the above noted renewable energy project is issued to you under Section 47.5 of the Environmental Protection Act subject to the terms and conditions outlined above.

DATED AT TORONTO this 20th day of December, 2012



Vic Schroter, P.Eng.
Director
Section 47.5, *Environmental Protection Act*

KR/

c: District Manager, MOE Belleville
Mark Kozak, Stantec Consulting Ltd.