



## NOTICE OF A PROPOSED CHANGE TO AN APPROVED RENEWABLE ENERGY PROJECT (REA No. 5460-98BPH8)

by Dufferin Wind Power Inc.

**Project Name:** Dufferin Wind Power Project

**Project Location (municipalities):** Melancthon, Shelburne and Amaranth in the County of Dufferin, Ontario

**Dated at:** The County of Dufferin, July 18, 2016

**IESO Reference #:** F-000661-WIN-130-601

**EBR Registry Number:** 011-7852

A Renewable Energy Approval (REA) application was made to the Ministry of the Environment and Climate Change (MOECC) in August 2012 and the Dufferin Wind Power Project was subsequently issued a REA on June 10, 2013. The REA was subsequently amended to accommodate changes to the locations of temporary building areas, underground feeder lines, underground transmission lines and construction access to the project location. These changes were approved through an amendment to the approval issued on October 9, 2014.

Dufferin Wind Power Inc. is now proposing a temporary amendment to allow for the testing of new and more efficient software control technology on two of its existing turbines, T24 and T27 (i.e. T2.09 and T4.10 respectively under the new turbine numbering system). The new software solution has been developed to allow for higher power output without significant changes to the original turbine noise characteristics. This is achieved primarily by increasing the gearbox torque while maintaining the rotor tip speed. Additionally, the new technology allows the GE turbines to run with a blade pitch schedule that optimizes the balance of noise and power. The changes to the turbine control software system are fully automated and are an integral part of turbine operations. As confirmed with the MOECC, this temporary amendment is classified as a "Technical Change". This Notice is being distributed in accordance with Section 16.0.1 of the Regulation.

### Project Description:

Pursuant to the Act and Regulation, the facility, in respect of which this project is to be engaged in, is a wind energy project and is rated as a Class 4 Wind Facility with a name plate capacity of 91.4 MW. The wind farm components are located entirely in the Township of Melancthon. The transmission line for the project passes through the Township of Melancthon, the Town of Shelburne and connects to the Provincial grid in the Township of Amaranth.

### Description of Project Design Changes to the REA Application:

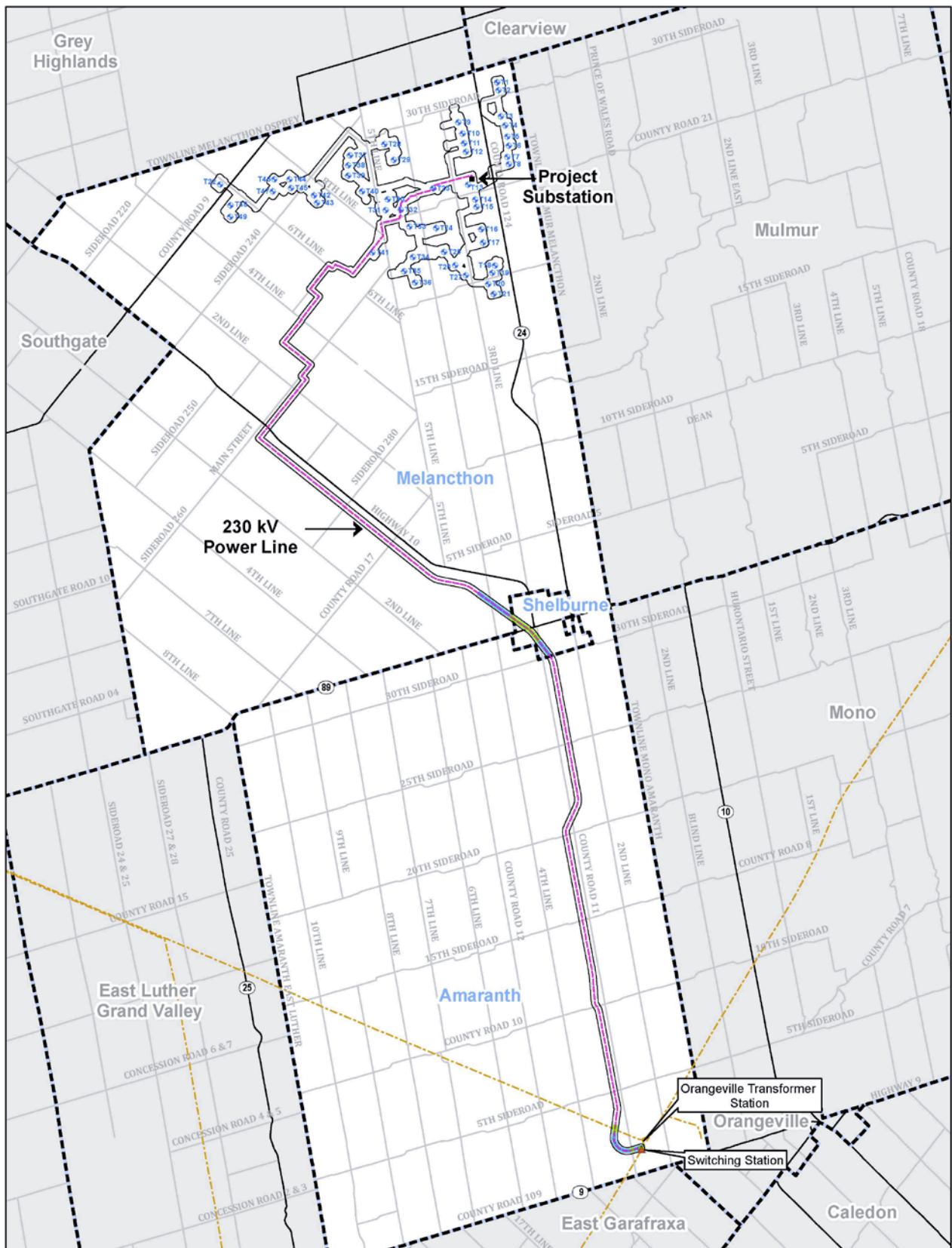
Dufferin Wind Power Inc. would like to temporarily amend the REA approval to allow for the testing of new General Electric (GE) software technology at Turbines T24 (approved at 1.388 MW) and T27 (approved at 1.6 MW). This new software technology should result in higher wind power generation for the facility while resulting in little or no increase in receptor noise levels. The turbines will operate at slightly higher generation rates (1.41 MW and 1.7 MW, respectively) while their noise emissions are monitored. The results of the turbine testing and noise emission monitoring will be summarized in a report and will be submitted to the MOECC for review. The testing of the wind turbine control software and noise emission monitoring is expected to take up to three months to ensure that testing at various wind speeds can be completed. No changes are proposed to the location of project components, and all components will remain in their existing locations.

### Documents for Public Inspection:

Further to this Notice, details of the proposed changes can be found in the *Modifications Document for the Dufferin Wind Power Project* (dated June 2016), which is posted on the Project website at: <http://www.dufferinwindpower.ca>. A hard copy can be viewed at the Project Office located at 705357 County Road 21, Melancthon, ON L9V 2A3.

### Project Contacts and Information:

Please call (519) 925-5599 or email [dufferinwindpower@clypg.ca](mailto:dufferinwindpower@clypg.ca) to comment on the project or for further information..



**Dufferin Wind Power Project**  
**Figure 1: Project Location**

- Legend**
- Turbine Locations
  - Substation
  - Orangeville Transformer Station
  - Switching Station
  - Road
  - Highway
  - Horizontal Direction Drilling and/or Underground Installation
  - Potential Horizontal Direction Drilling and/or Underground Installation
  - 230 kV Power Line
  - Existing Hydro One Transmission Line
  - 120 m Project Location Setback
  - Municipalities

