

# EAST DURHAM WIND ENERGY CENTRE

## Stage 1 and 2 Archaeological Assessment Reports Summary

OCTOBER 2012

East Durham Wind, Inc., a wholly owned subsidiary of NextEra Energy Canada, ULC (NextEra), is proposing to construct a wind energy project in the Municipality of West Grey, Grey County, Ontario. The Project will be referred to as the East Durham Wind Energy Centre (the "Project") and will be located on private lands east of the Community of Durham and west of the Village of Priceville. The wind turbine technology proposed for this Project is the GE 1.6-100 model wind turbine. With a total maximum nameplate capacity of up to 23 MW, the Project is categorized as a Class 4 facility. The project consists of up to 16 GE model wind turbines with 14 turbines that are 1.6-100 (1.62 MW), Turbine 6 is 1.34-100 (1.34 MW) and Turbine 2 is 1.39-100 (1.39 MW). Although NextEra is seeking a Renewable Energy Approval (REA) for up to 16 wind turbines, only 14 will be constructed for the project.

The purpose of a Stage 1 Archaeological Assessment is to find out whether there are any known archaeological sites on or near the Project area. If the Stage 1 Assessment determines there is archaeological potential, a Stage 2 Assessment is completed to identify any archaeological resources and confirm if further archaeological studies are required.

The Stage 1 and 2 Archaeological Assessment Reports were prepared in accordance with the requirements outlined in Ontario Regulation 359/09, the regulation governing renewable energy projects in Ontario, in addition to the Ministry of Tourism, Culture and Sport's (MTCS) 2011 Standards and Guidelines for Consultant Archaeologists. The reports are reviewed and a satisfaction letter is issued by the MTCS prior to submitting the Renewable Energy Approval to the Ministry of the Environment.



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### STAGE 1 ARCHAEOLOGICAL ASSESSMENT

The Stage 1 Archaeological Assessment was completed in 2009 and revised in December 2010 and involved reviewing background research, such as land use history and historic maps of the area, a property inspection and a review of the Ontario Archaeological Sites Database.

#### CONCLUSIONS

The potential for Aboriginal and Euro-Canadian Archaeological resources within the study area was determined to be moderate to high. For pre-contact Aboriginal Sites, this is based on nearby drinking water sources, a relatively flat landscape, soils that can be used for agriculture, and known archaeological sites. For post-contact Aboriginal Sites, this is based on nearby drinking water sources, a relatively flat landscape, and Euro-Canadian historic documents. For Euro-Canadian Sites, this is based on historic documents and historic transportation routes.



### STAGE 2 ARCHAEOLOGICAL ASSESSMENT

#### FIELD METHODS

The Stage 2 assessment was completed from May to September 2012. The study involved “pedestrian surveys” (i.e., archaeologists either walking ploughed fields) or “test pitting” (i.e., digging holes by hand that are 30 centimeters (cm) wide and an average of 25 to 30 cm deep) to look for archaeological resources. Pedestrian surveys were completed for the majority of the study area whereas test pitting was only conducted where pedestrian surveys were not feasible (e.g., woodland areas and road rights of way).

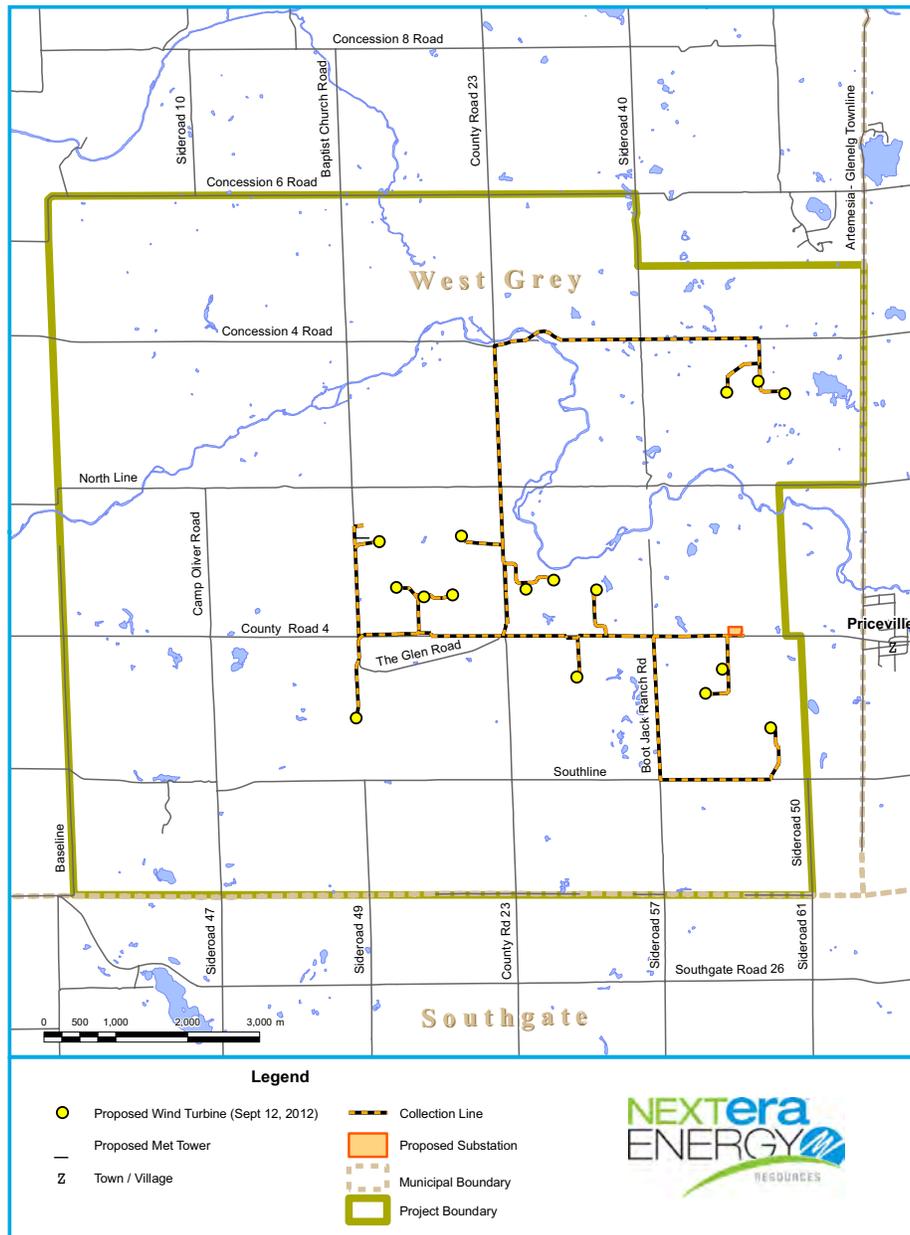
#### CONCLUSIONS

A total of three archaeological sites were documented (during the pedestrian survey; no sites were documented during the test pit survey). A sample of artifacts from each site was collected and subsequently analyzed. The three sites were determined to be 19th century historic Euro-Canadian sites that have been recommended for subsequent Stage 3 archaeological assessment prior to construction. A “historic Euro-Canadian site” was identified where 19th century European immigrants to the area had left behind remains from their homesteads or other structures.



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### Have A Question?

We hope you find this Plain Language Summary helpful. In case you would like additional information or have any questions, please contact us directly:

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