

BLUEWATER WIND ENERGY CENTRE

Wind Turbine Specification Report Summary

MARCH 2012

Varna Wind Inc., a wholly owned subsidiary of NextEra Energy Canada, ULC (NextEra) is proposing to construct a wind energy project in the Municipalities of Bluewater and Huron East in Huron County, Ontario (Figure 1.1). The project will be referred to as the Bluewater Wind Energy Centre (the “Project”) and will be located on private lands in the vicinity of the shoreline of Lake Huron. While NextEra is seeking a Renewable Energy Approval (REA) for 41 wind turbines, only 37 are proposed to be constructed for the Project.

The purpose of the Wind Turbine Specification Report is to provide specific information on the turbine proposed for the Project; this includes the size, sound levels and the amount of electricity produced.



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TURBINE SPECIFICATIONS

BLADES AND TOWER

The wind turbine technology proposed for this Project is the 1.6 megawatt GE model wind turbine. The turbines are 80 m tall with three approximately 50 m long blades.

LIGHTING

Some of the wind turbines will have external lighting in accordance with the requirements of Transport Canada (TC) for aviation safety. NextEra will consult with TC regarding the number of turbines requiring lighting.

TURBINE MONITORING

The wind turbines are continuously monitored throughout the operations phase of the Project. The turbines are equipped with a mechanism for automatically or manually controlling the turbines, either from the control centre or from the actual turbine.

BRAKE SYSTEM

To stop turbine operation braking is accomplished by feathering the blades out of the wind – meaning that each blade rotates so it no longer catches wind.

Specification	Turbine
Make	General Electric
Model	1.6-100
Name Plate Capacity	1.6 MW
Hub Height	80 m
Rotor Diameter	100 m
Minimum Rotational Speed	9.75 rpm
Maximum Rotational Speed	16.2 rpm

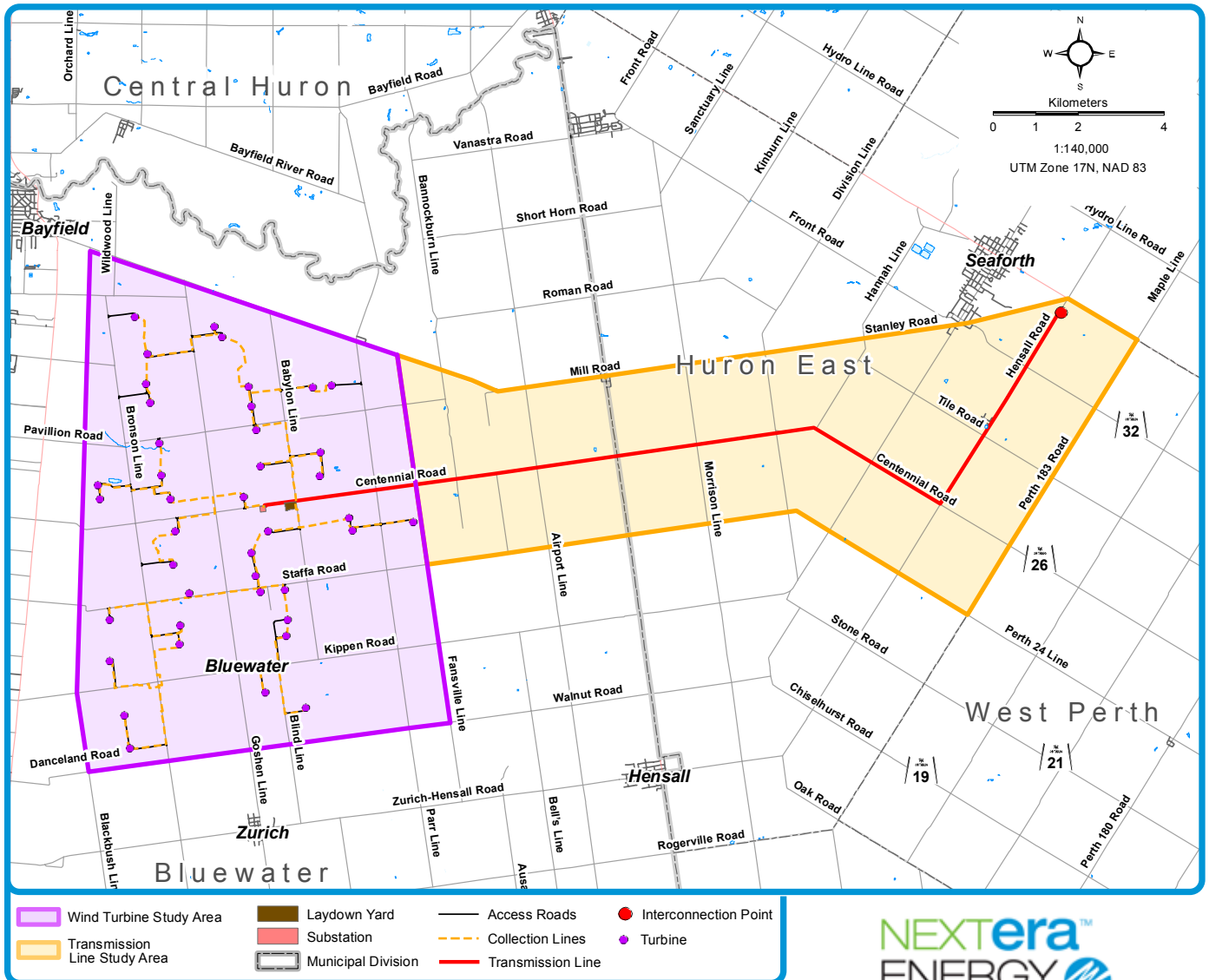
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Have A Question?

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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