

Varna Wind, Inc.

# **Amendment to the Wind Turbine Specification Report – Bluewater Wind Energy Centre**

**Prepared by:**

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60301207

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# Table of Contents

		page
<b>1.</b>	<b>Introduction .....</b>	<b>1</b>
1.1	The Proponent .....	1
1.2	Project Study Area .....	1
<b>2.</b>	<b>Proposed Project Modifications.....</b>	<b>2</b>
<b>3.</b>	<b>Edits to the Wind Turbine Specification Report .....</b>	<b>5</b>

## List of Figures

	Figure 2-1 Modified Project Location .....	4
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## List of Tables

	Table 2-1 Summary of Project Modifications.....	3
--	---	---

## Glossary of Terms

mVA .....	mega Volt-Ampere
NextEra .....	NextEra Energy Canada, ULC
The Project.....	Bluewater Wind Energy Centre
POI.....	Point of Interconnect
REA.....	Renewable Energy Approval

# 1. Introduction

Varna Wind, Inc. (Varna) is proposing to construct a wind energy centre in the Municipality of Bluewater and the Municipality Huron East in Huron County, Ontario. The following sections of this Renewable Energy Approval (REA) Amendment Report describe the proposed modifications to this Project and resulting updates to the Wind Turbine Specification Report.

## 1.1 The Proponent

The Project will be owned and operated by Varna, a wholly owned subsidiary of NextEra Energy Canada, ULC (NextEra). NextEra’s indirect parent company is NextEra Energy Resources, LLC. The proponent has not changed from the initial REA submission.

The primary contacts for the Project are as follows:

Project Proponent	Project Consultant
Nicole Geneau Project Director NextEra Energy Canada, ULC 390 Bay Street, Suite 1720 Toronto, ON M5H 2Y2  Phone:.....1-416-364-9714 Email: .....Bluewater.Wind@NextEraEnergy.com Website: ..www.NextEraEnergyCanada.com	Marc Rose Senior Environmental Planner AECOM 105 Commerce Valley Drive West, Floor 7 Markham, ON, Canada L3T 7W3  Phone: .....905-747-7793 Email:.....marc.rose@aecom.com

## 1.2 Project Study Area

The proposed Project is located in the Municipality of Bluewater and the Municipality Huron East in Huron County, Ontario (refer to **Figure 2-1**). The Project Study Area has not changed from the initial REA submission.

The following co-ordinates define the external boundaries of the Project Study Area:

Longitude	Latitude
<b>-81.680043</b>	43.553413
<b>-81.350138</b>	43.534437
<b>-81.402727</b>	43.471275
<b>-81.679229</b>	43.433866

## 2. Proposed Project Modifications

Varna is proposing modifications to the Project. These proposed Project modifications are categorized as follows:

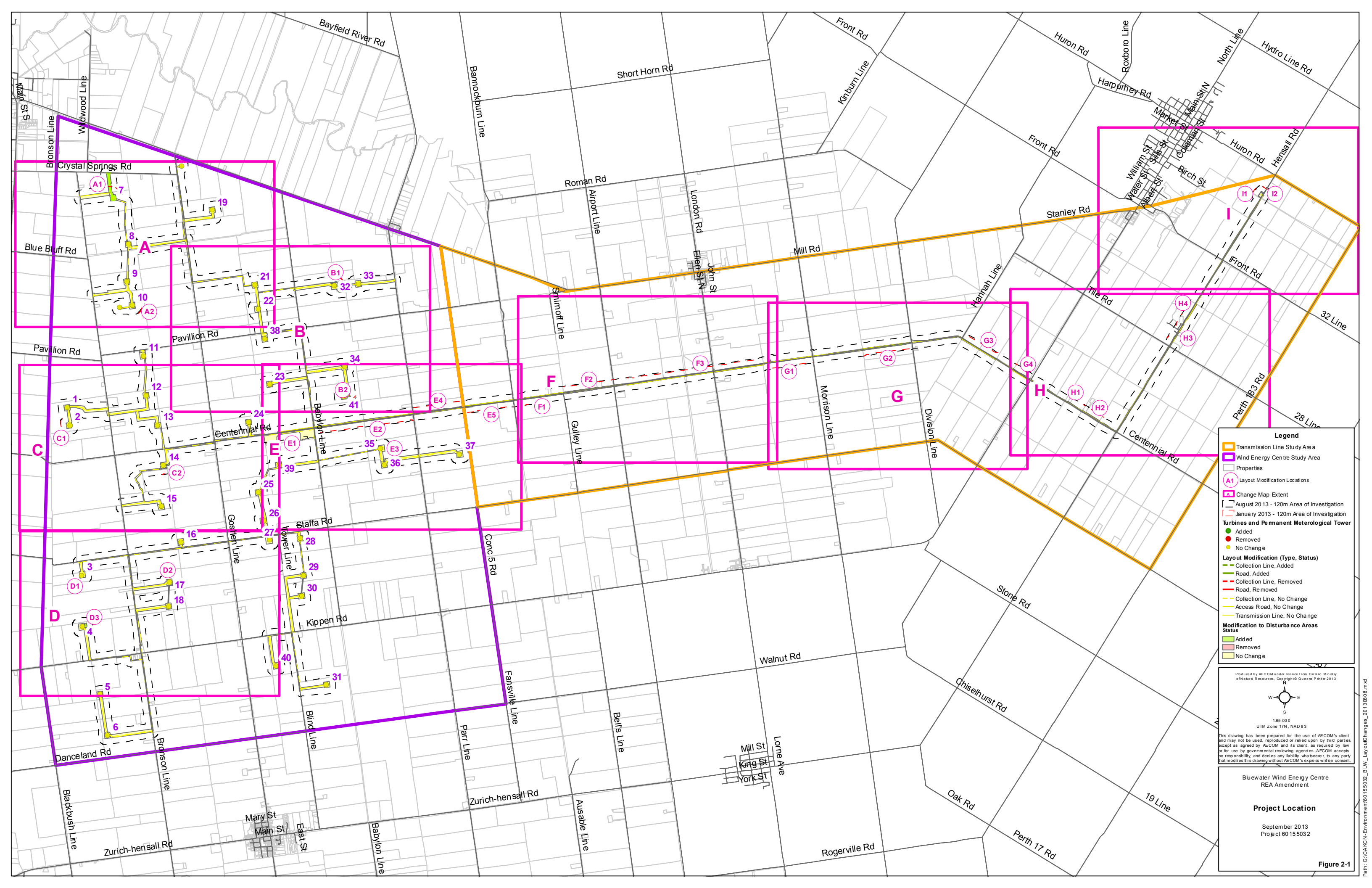
- Construction disturbance area modified to reduce or eliminate impacts to Conservation Authority regulation limit; and,
- Infrastructure or construction disturbance area added or changed to optimize project design/constructability.

**Table 2-1** provides a description of each modification and a rationale for why the modification is proposed.

**Figure 2-1** illustrates the modified project location.

**Table 2-1 Summary of Project Modifications**

<b>Label on Figure 2-1</b>	<b>Proposed Modification</b>	<b>Rationale for Proposed Modification</b>
<b>A1</b>	Addition of road to Turbine 7 to travel north towards Crystal Springs Road	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability
<b>A2</b>	Removal of construction disturbance area to the south east of Turbine 10	Construction disturbance area modified to reduce or eliminate impacts to Conservation Authority regulation limit
<b>B1</b>	Addition of construction disturbance area to the north of Turbine 32	Construction disturbance area added or changed to optimize project design/ constructability
<b>B2</b>	Addition of construction disturbance area to the east of Turbine 41	Construction disturbance area added or changed to optimize project design/ constructability
<b>C1</b>	Addition of construction disturbance area to the west of Turbine 2	Construction disturbance area added or changed to optimize project design/ constructability
<b>C2</b>	Addition of construction disturbance area to the south and east of Turbine 14	Construction disturbance area added or changed to optimize project design/ constructability
<b>D1</b>	Removal of construction disturbance area to the south west of Turbine 3	Construction disturbance area modified to reduce or eliminate impacts to Conservation Authority regulation limit
<b>D2</b>	Addition of construction disturbance area to the south of Turbine 17	Construction disturbance area added or changed to optimize project design/ constructability
<b>D3</b>	Addition of construction disturbance area to the east of Turbine 4	Construction disturbance area added or changed to optimize project design/ constructability
<b>E1 – E2</b>	Addition of construction disturbance area for the transmission line in the municipal road right-of-way along Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability
<b>E3</b>	Addition of construction disturbance area to the north of Turbine 36	Construction disturbance area added or changed to optimize project design/ constructability
<b>E4</b>	Addition of construction disturbance area for the transmission line on private property to the north of Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability
<b>E5</b>	Addition of construction disturbance area for the transmission line in the municipal road right-of-way along Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability
<b>F1</b>	Addition of construction disturbance area for the transmission line in the municipal road right-of-way along Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability
<b>F2</b>	Addition of construction disturbance area for the transmission line on private property to the north of Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability
<b>F3</b>	Addition of construction disturbance area for the transmission line in the municipal road right-of-way along Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability
<b>G1 – G4</b>	Addition of construction disturbance area for the transmission line in the municipal road right-of-way along Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability
<b>H1</b>	Addition of construction disturbance area for the transmission line on private property to the north of Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability
<b>H2</b>	Addition of construction disturbance area for the transmission line on private properties to the north of Centennial Road	Construction disturbance area added or changed to optimize project design/ constructability
<b>H3- H4</b>	Addition of construction disturbance area for the transmission line in the municipal road right-of-way along Hensall Road	Construction disturbance area added or changed to optimize project design/ constructability
<b>I1</b>	Addition of construction disturbance area for the transmission line POI to the north of the existing disturbance area.	Construction disturbance area added or changed to optimize project design/ constructability
<b>I2</b>	Addition of construction disturbance area for the transmission line in the municipal road right-of-way along Hensall Road	Construction disturbance area added or changed to optimize project design/ constructability
<b>N/A</b>	Use of a spare 170 mVA transformer to be stored within the existing footprint of the Jericho Wind Energy Centre substation.	N/A



**Legend**

- Transmission Line Study Area
- Wind Energy Centre Study Area
- Properties
- Layout Modification Locations
- Change Map Extent
- August 2013 - 120m Area of Investigation
- January 2013 - 120m Area of Investigation

**Turbines and Permanent Meteorological Tower**

- Added
- Removed
- No Change

**Layout Modification (Type, Status)**

- Collection Line, Added
- Road, Added
- Collection Line, Removed
- Road, Removed
- Collection Line, No Change
- Access Road, No Change
- Transmission Line, No Change

**Modification to Disturbance Areas Status**

- Added
- Removed
- No Change

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UTM Zone 17N, NAD 83

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**Bluewater Wind Energy Centre  
REA Amendment**

**Project Location**

September 2013  
Project 60155032

**Figure 2-1**

Path: G:\CA\KCN-Environment\60155032\_BLV\_LayoutChanges\_20130608.mxd

### 3. Edits to the Wind Turbine Specification Report

There are no edits to the Wind Turbine Specification Report resulting from the modifications described in **Table 2-1**.