

Goshen Wind, Inc.

Revision to the Wind Turbine Specification Report – Goshen Wind Energy Centre

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Glossary of Terms

mVA mega Volt-Ampere
NextEra NextEra Energy Canada, ULC
The Project..... Goshen Wind Energy Centre
REA..... Renewable Energy Approval

1. Introduction

Goshen Wind, Inc. (Goshen), is proposing to construct a wind energy centre in the Municipality of Bluewater and the Municipality of South Huron in Huron County, Ontario. The following sections of this Renewable Energy Approval (REA) Revision 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 Goshen, 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:Goshen.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:1-905-747-7793 Email:.....marc.rose@aecom.com

1.2 Project Study Area

The proposed Project is located in the Municipality of Bluewater and the Municipality of South Huron 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
-81.6753290	43.4155312
-81.3011931	43.3810955
-81.3303330	43.3036317
-81.7743607	43.2379854

2. Proposed Project Modifications

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

- Construction disturbance area modified to reduce or eliminate impacts to archaeological resources or Conservation Authority regulation limits;
- Infrastructure or construction disturbance area added or changed to optimize project design/ constructability; and,
- Turbine and associated infrastructure removed.

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

Label on Figure 2-1	Proposed Modification	Rationale for Proposed Modification
A1	Removal of Turbine 7 and associated access road and collection line.	Turbine and associated infrastructure removed.
A2	Removal of a portion of Turbine 11 construction disturbance area.	Construction disturbance area modified to reduce or eliminate impacts to Conservation Authority regulation limit.
A3	Relocation of collection line to Turbine 9 17 m to southern property boundary, west of Bronson Line.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources
B1	Relocation of collection line from private property to Babylon Line and Huron Street right-of-way.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
B2	Temporary construction laydown area modified and increased in size.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
B3	Relocation of Turbine 71 15 m north within the existing turbine construction disturbance area.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
C1	Relocation of access road to Turbine 66 to the west.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
C2	Removal of a portion of construction disturbance area, east of Shipka Line, for the access road and collection line to Turbine 21.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
C3	Addition of collection line construction disturbance area in the Black Bush Line right-of-way, east of Turbine 86.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
C4	Relocation of collection line from private property to Black Bush Line right-of-way in two locations, northeast of Turbine 64.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
C5	Relocation of collection line from private property to Crediton Road right-of-way, south of Turbine 39.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
C6	Relocation of collection line from private property to Bronson Line right-of-way, southwest of Turbine 81.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
C7	Relocation of collection line from private property to South Road right-of-way, southeast of Turbine 38.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
C8	Relocation of collection line from private property to South Road right-of-way, southwest of Turbine 41.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
C9	Realignment of collection line from Black Bush Line right-of-way onto private property west of Black Bush Line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
C10	Removal of a portion of collection line disturbance area on private property, along Black Bush Line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
D1	Relocation of Turbine 83 and associated construction disturbance area 1,140 m to the east.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
D2	Removal of the southwest portion of Turbine 17 construction disturbance area.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
D3	Relocation of collection line from private property to Grand Bend Line right-of-way, south and west of Turbine 53.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
D4	Relocation of collection line from private property to South Road right-of-way, east of Turbine 55.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.

Table 2-1 Summary of Project Modifications

Label on Figure 2-1	Proposed Modification	Rationale for Proposed Modification
E1	Relocation of collection line from private property to Mollard Line right-of-way, west of Turbine 56.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
E2	Removal of a portion of Turbine 56 construction disturbance area.	Construction disturbance area modified to reduce or eliminate impacts to Conservation Authority regulation limit.
E3	Addition of collection line construction disturbance area on private property, heading west to Turbine 60 from Mollard Line, and removal of collection line heading west to Turbine 58 from Mollard Line.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
E4	Addition of construction disturbance area for access road and collection line to Turbine 56 from Eagleson Line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
F1	Removal of Turbine 46 and associated access road and collection line, including collection line in the Gordon Line right-of-way and collection line on private property to Turbine 77.	Turbine and associated infrastructure removed.
F2	Removal of a portion of construction disturbance area for access road and collection line to Turbine 77.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
F3	Addition of collection line in Babylon Line right-of-way, between the access road to Turbine 77 and the access road to Turbine 49.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
F4	Addition of transmission line construction disturbance area on private property, west of Parr Line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
F5	Removal of a portion of transmission line construction disturbance area on private property, west of Ausable Line and relocation of transmission line to an overhead position crossing the Ausable River.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
G1	Addition of transmission line construction disturbance area on private property, west of London Road.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
G2	Addition of transmission line construction disturbance area on private property, west of London Road.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
G3	Addition of transmission line construction disturbance area in the Crediton Road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
G4	Removal of a portion of transmission line construction disturbance area on private property, south of Crediton Road and east of McTaggart Line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
H1	Addition of transmission line construction disturbance area on private property, east of Hern Line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
H2	Addition of transmission line construction disturbance area on private property, west of Sunshine Line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
H3	Addition of transmission line construction disturbance area on private property, east of Sunshine Line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
H4	Removal of a portion of transmission line construction disturbance area on private property, east of Sunshine Line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
H5	Addition of transmission line construction disturbance area on private property, south of Dump Road and west of Sunshine Line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
H6	Addition of transmission line construction disturbance area on private property, south of Dump Road and west of Sunshine Line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
H7	Addition of transmission line construction disturbance area on private property, on the south side of Dump Road, east of Plugtown Line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
H8	Addition of transmission line construction disturbance area on private property, on the north side of Dump Road, west of Union Line and addition and removal of portions of the transmission line point of interconnect construction disturbance area.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
H9	Removal of a portion of transmission line construction disturbance area on private property, north of Crediton Road, and west of Hern Line.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
N/A	Use of a spare 170 mVA transformer to be stored within the existing footprint of the Jericho Wind Energy Centre substation.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.

Lake Huron

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

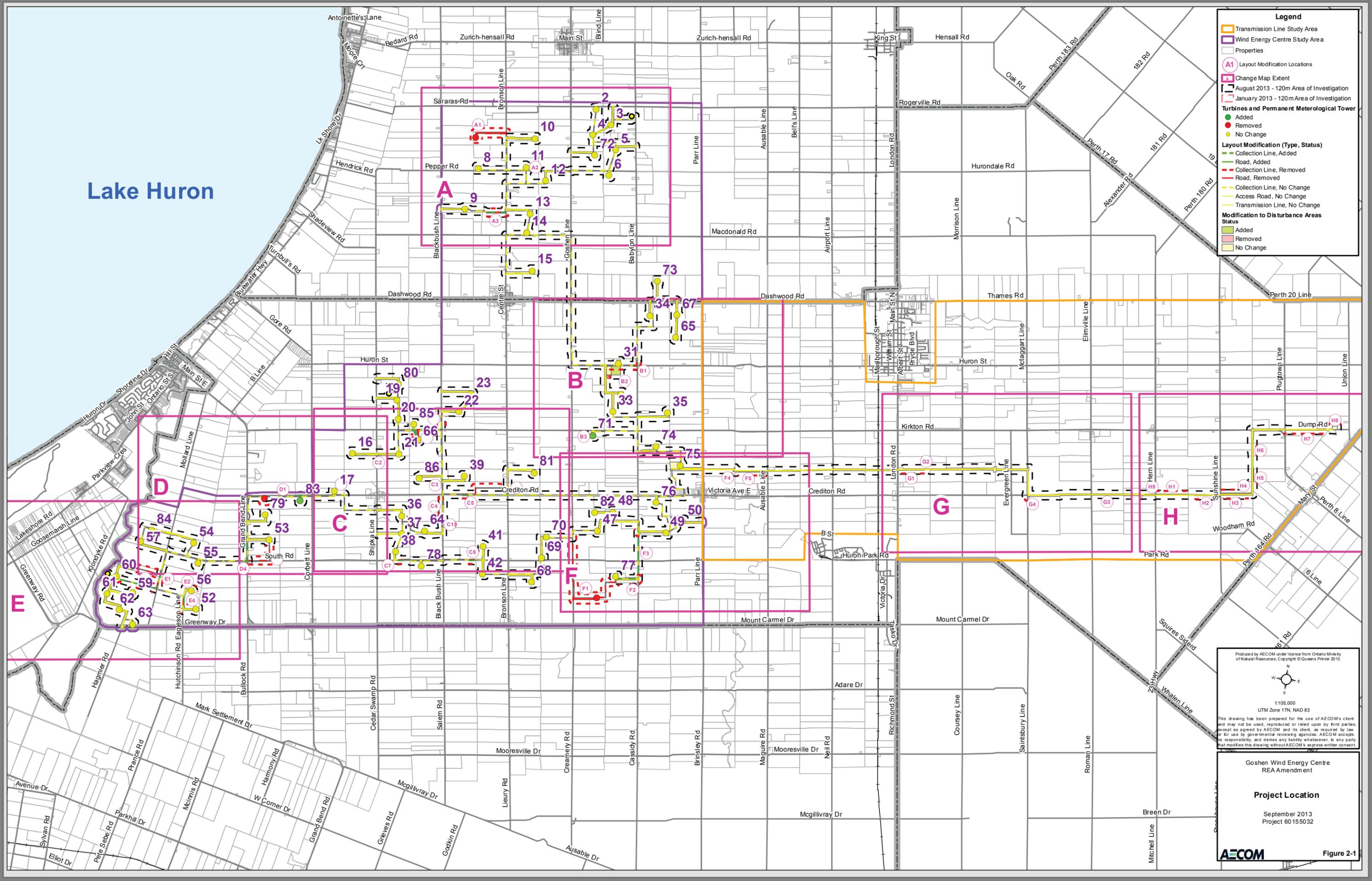
- Added
- Removed
- No Change

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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Goshen Wind Energy Centre
REA Amendment

Project Location

September 2013
Project 60155032

AECOM

Figure 2-1

3. Edits to the Wind Turbine Specification Report

Table 3-1 documents the edits to the Wind Turbine Specification Report resulting from the modifications described **Section 2**. The table includes the text from the original REA submission and edits to the text (underlined text represents additions and strikethrough text represents deletions).

Table 3-1 Edits to the Wind Turbine Specification Report

Section / Page	Original Text	Revised Text (<u>Underlined text</u> represents additions and strikethrough text represents deletions)
Section 1 / page 1	NextEra is seeking a Renewable Energy Approval (REA) for up to 72 wind turbines for the Project (however, only 63 turbines will be constructed).	NextEra is seeking a Renewable Energy Approval (REA) for up to 72 <u>70</u> wind turbines for the Project (however, only 63 turbines will be constructed).
Section 2 / page 2	Although NextEra is seeking an REA for up to 72 wind turbines, only 63 are proposed to be constructed for the Project.	Although NextEra is seeking an REA for up to 72 <u>70</u> wind turbines, only 63 are proposed to be constructed for the Project.