Invenergy | **Skinners Pond Wind Energy Centre**

Enough electricity to power more than **26,000 homes annually**

**Over $2.5 million** projected annual investment through local taxes, landowner payments, and community benefit funds

Approximately **90 jobs** supported throughout construction

**Up to 99 megawatts** of renewable energy

**Up to 15 wind turbines** using the most up-to-date, innovative technology

**3-5 full time** operations & maintenance staff

# Project Schedule

| Project Component | Date |
|---|---|
| EIS Completed | June 2023* |
| Geotechnical Engineering Information for Wind Turbine Site | September 2023 |
| Clearing and Grubbing of the Project Area | Mid 2024 - Late 2024 |
| Turbine Laneway Construction | Late 2024 |
| Project Substation Installation | Mid 2024 – Late 2025 |
| Winter Shut Down | Late 2024 – Early 2025 |
| Collector System Installation | Mid 2025 |
| Wind Turbine Site Foundation Construction | Mid 2025 |
| Wind Turbine Erection | Mid 2025 |
| Commissioning of Wind Turbines and Substation | Late 2025 |

* Subject to Information Requests and stakeholder comments

# Invenergy | Wind Construction

## Step 1:
Excavation Work Begins

## Step 2:
Foundation is Started

## Step 3:
Concrete is Poured


## Step 4:
Tower is Delivered in Sections

## Step 5:
Base is Attached to Tower Foundation

## Step 6:
Erecting the Tower is Completed

## Step 7:
Nacelle & Turbine Blades are Attached

## Step 8:
Underground Cables are Trenched In

## Step 9:
Turbine Laneways are Completed

## Step 10:
Wind Farm is Operational

*Constructions steps are tailored to the needs of each project and may vary.*

Invenergy | **Skinners Pond Wind Energy Centre**

# Wind Turbine Design

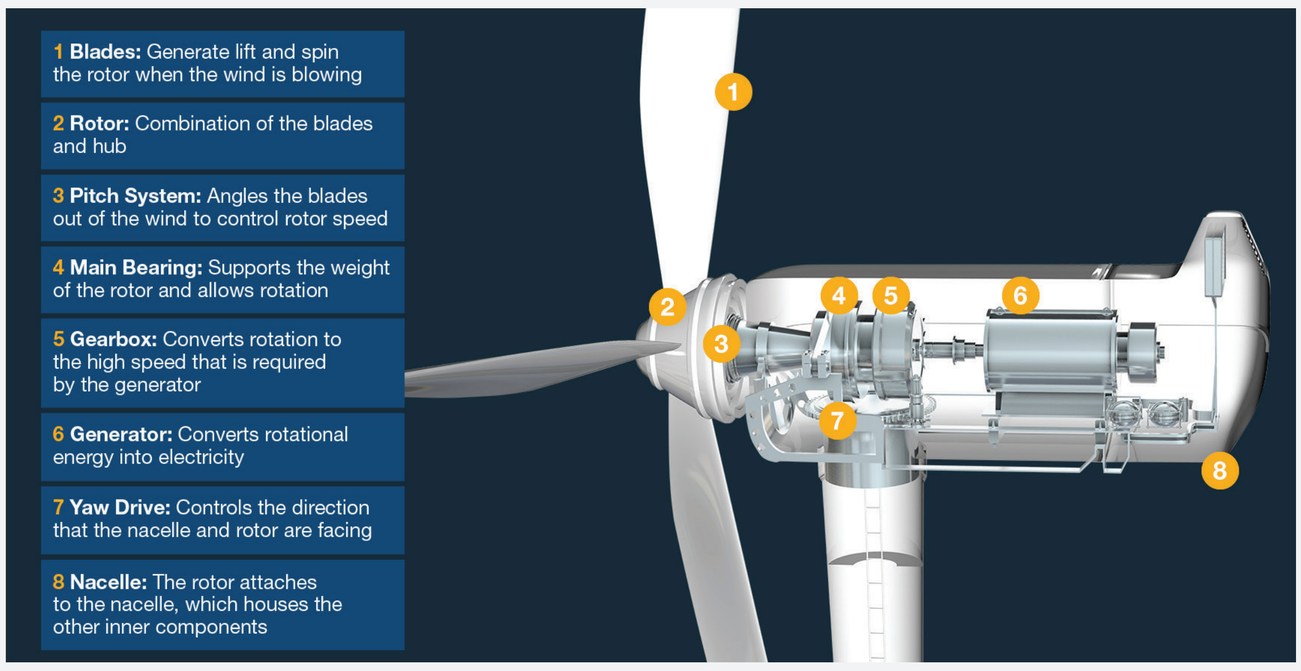
The Project will consist of 15 Vestas or Siemens wind turbines, each capable of producing 6.2 or 6.6 MW respectively, for a total nameplate production of 93 to 99 MW. It will also include turbine laneways to each turbine, electrical collector lines to connect the turbines, and a Project substation.

## Vestas 6.2 MW


## Siemens 6.6 MW

## How Wind Works

Wind turbines are designed to capture the natural power of the wind in our atmosphere and convert it into electricity. The electricity generated from a single wind turbine can power hundreds of homes.



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HARPER RD - RTE 158
PROVOST RD
JOE PETE RD
WESTERN RD - RTE 2
RTE 158
THOMPSON RD - RTE 155
RTE 14

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

BASEMAP IMAGERY: ESRI 2020

LEGEND:
- Turbine
- Point of Interconnection Option
- MET Tower
- Turbine Laneway
- Roads
- Streams/Creeks
- Wetlands (Provincial)
- Power Collection Corridor
- Alternate Power Collection Corridor
- Property Boundary
- Project Area

**L016 Footprint**
- Electrical Substation
- O and M Building
- Power Collection Corridor
- Alternate Power Collection Corridor
- Turbine Laneway Corridor
- Turbine Foundation
- Turbine Temporary Laydown Area (Indicative)

**ALL WIND FARM INFRASTRUCTURE MAPPING WAS PROVIDED BY INVENERGY LABELLED LAYOUT 016**

KEYMAP


CLIENT: Invenergy

wsp

TITLE: **PROJECT DESCRIPTION**

PROJECT: **SKINNERS POND WIND ENERGY CENTRE**

| PROJECT NO: | DATE: |
|---|---|
| TE211027 | MARCH 2023 |
| REV NO: 2 | DWN BY: CM |
| DATUM: NAD83 CSRS 2010 | PROJECTION: PEI DBL STEREO |

FIGURE: **FIGURE 2.1**

SCALE: 1:30,000

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Metres

Path: E:\13 GIS (2)\13 GIS\MXD\TE211027_FIGURE_2_1_ProjectDescription.mxd User: juanita.abbott Date: 5/12/2023

Invenergy | **Skinners Pond Wind Energy Centre**

# Environmental Impact Assessment Process on Prince Edward Island

Fieldwork - EIA
Valued Component
Spring Surveys

Fieldwork - EIS
Valued Component
Summer Surveys

**Late 2022**
Stakeholder
Consultation and
Open House

**Early 2023**
EIS Document
Submission and
Second Open House

**Early 2023**
EIA Review Process

- Technical Review Committee
- Public Consultation

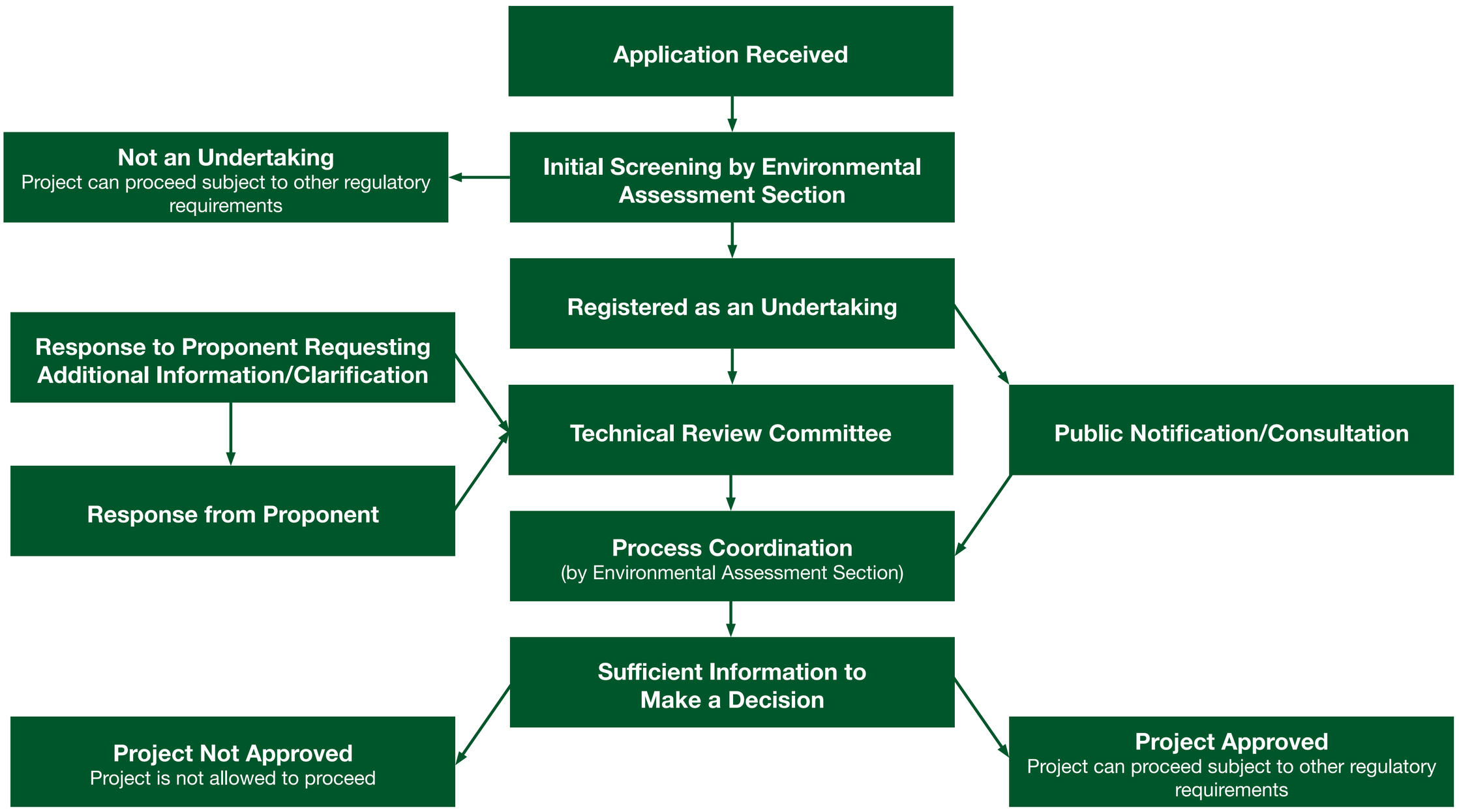
**Late 2023**
Minister's Decision

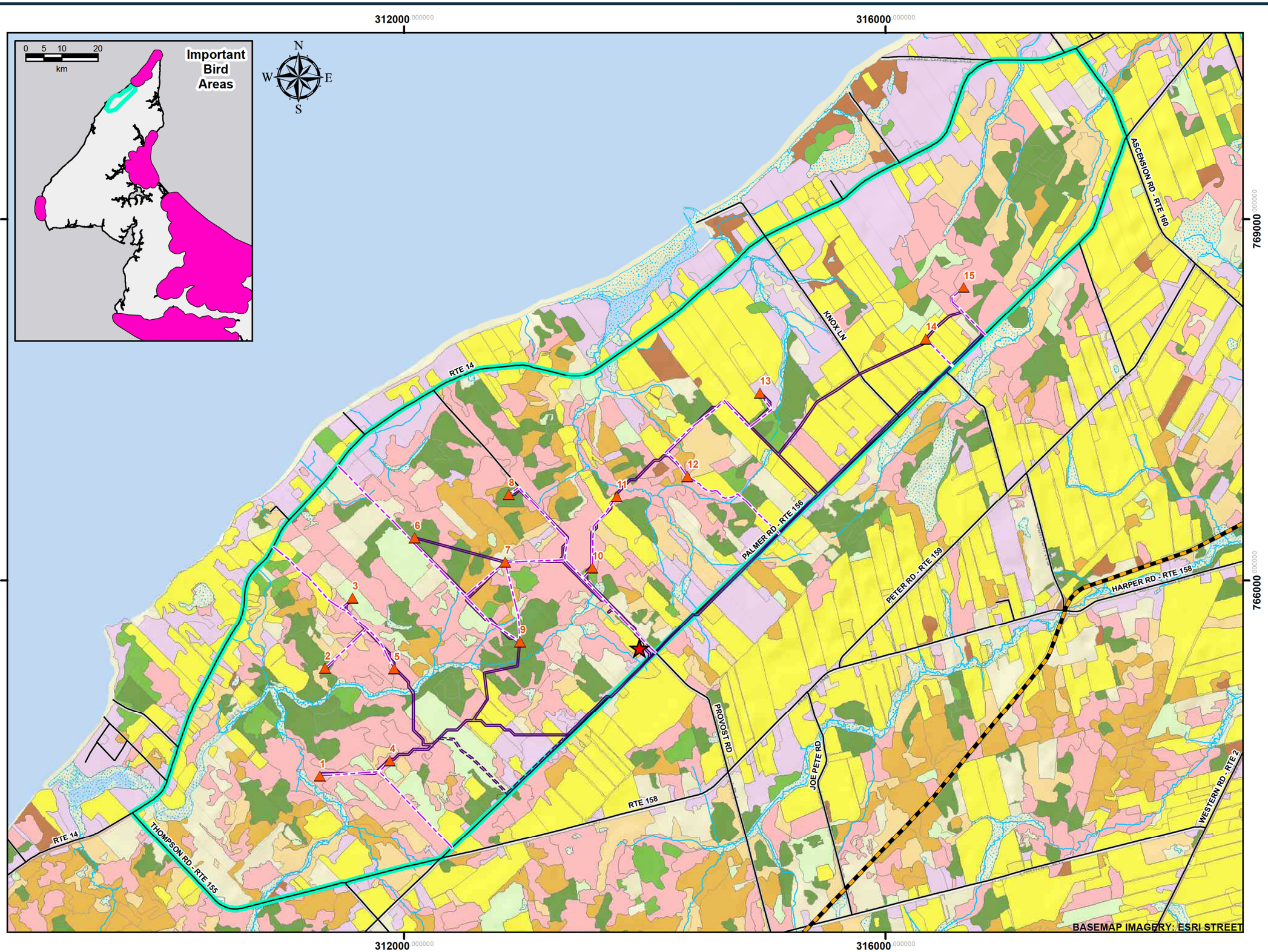
- Minimum 3 months
- Depends on complexity and timely proponent responses to information requests
- Stakeholder Information Requests

**Late 2023**
Project Approval

- Approved with Conditions
- Various associated permitting and approvals

**Construction**
**Possible Early 2024**






LEGEND:

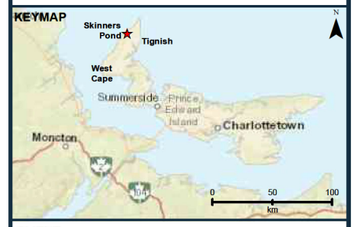
- Turbine
- Point of Interconnection Option
- PEI Confederation Trail
- Turbine Laneway
- Roads
- Streams/Creeks
- Wetlands (Provincial)
- Power Collection Corridor
- Alternate Power Collection Corridor
- Property Boundary
- Project Area
- Important Bird Areas

**Land Use**

- Agricultural
- Clear cut
- Mixed Forest
- Immature Coniferous
- Mature Coniferous
- Immature Deciduous
- Mature Deciduous
- Grassland
- Shrub

**ALL WIND FARM INFRASTRUCTURE MAPPING WAS PROVIDED BY INVENERGY LABELLED LAYOUT 016**

KEYMAP




CLIENT: Invenergy

TITLE: **TERRESTRIAL HABITAT**

PROJECT: **SKINNERS POND WIND ENERGY CENTRE**

| PROJECT NO: | DATE: |
|---|---|
| TE211027 | MARCH 2023 |
| REV NO: 1 | DWN BY: CM |
| DATUM: NAD83 CSRS 2010 | PROJECTION: PEI DBL STEREO |

FIGURE: **FIGURE 4.3**

SCALE: 1:30,000

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Path: Q:\PROJECTS\TE211027_Invenergy_Canada_EIA_Windfarm_PE\13 GIS\MXD\TE211027_FIGURE_4_2_TerrestrialHabitat.mxd User: candace.macdonald Date: 3/28/2023

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WL1 WL2 WL3 WL4 WL5 WL6 WL7 WL8 WL9 WL10 WL11 WL12 WL13 WL14a WL14b WL16 WL17 WL18 WL19 WL20 WL21 WL22 WL23

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RTE 14

KNOXLIN

ASCENSION RD - RTE 160

PALMER RD - RTE 156

PETER RD - RTE 159

HARPER RD - RTE 158

PROVOST RD

JOE PETE RD

RTE 158

RTE 14 THOMPSON RD - RTE 155

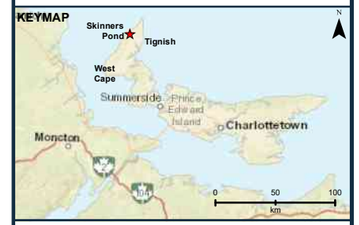
BASEMAP IMAGERY: ESRI 2020

LEGEND:

- Wetland Intersection (WL)
- Turbine
- Point of Interconnection Option
- Turbine Laneway
- Roads
- Streams/Creeks
- Wetlands (Provincial)
- Field Verified Wetlands
- Power Collection Corridor
- Alternate Power Collection Corridor
- Property Boundary
- Project Area

**ALL WIND FARM INFRASTRUCTURE MAPPING WAS PROVIDED BY INVENERGY LABELLED LAYOUT 016**

KEYMAP




CLIENT: Invenergy

wsp

TITLE: **WETLANDS**

PROJECT: **SKINNERS POND WIND ENERGY CENTRE**

| PROJECT NO: | DATE: |
|---|---|
| TE211027 | MARCH 2023 |
| REV NO: 7 | DWN BY: CM |
| DATUM: NAD83 CSRS 2010 | PROJECTION: PEI DBL STEREO |

FIGURE: **FIGURE 4.4**

SCALE: 1:26,000

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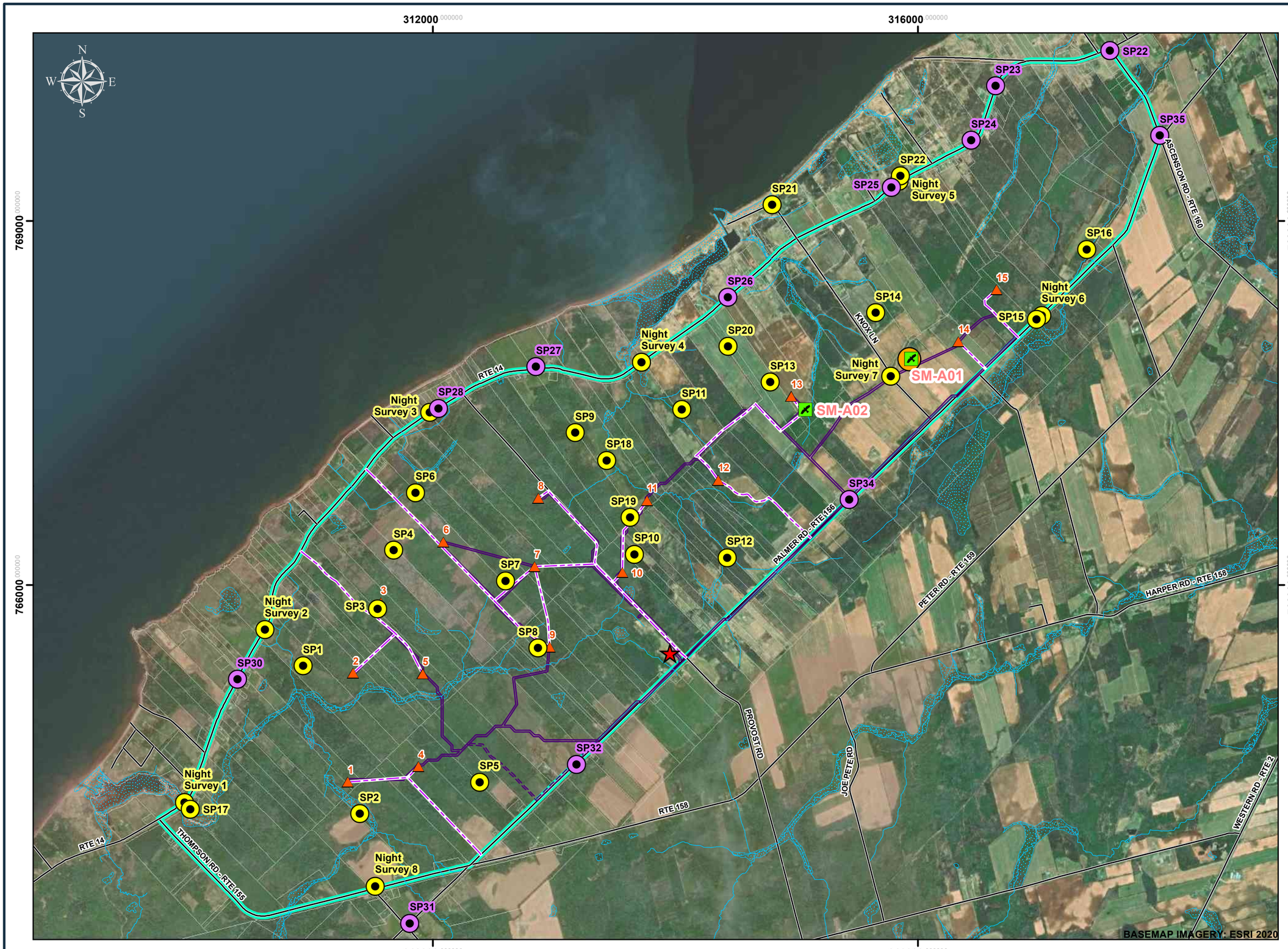
Path: Q:\PROJECTS\TE211027_Invenergy_Canada_EIA_Windfarm_PE\13 GIS\MXD\TE211027_FIGURE_4_3_Wetlands.mxd User: candace.macdonald Date: 3/28/2023

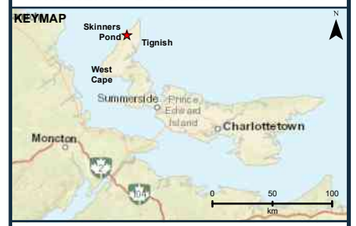



LEGEND:

- Avian Survey Points (SP)
- Autumn-only Survey Points
- Avian Song Meter (SM-A)
- Turbine
- Point of Interconnection Option
- MET Tower
- Turbine Laneway
- Roads
- Streams/Creeks
- Wetlands (Provincial)
- Power Collection Corridor
- Alternate Power Collection Corridor
- Property Boundary
- Project Area

**ALL WIND FARM INFRASTRUCTURE MAPPING WAS PROVIDED BY INVENERGY LABELLED LAYOUT 016**

KEYMAP




CLIENT: Invenergy

wsp

TITLE: **AVIAN SURVEY LOCATIONS**

PROJECT: **SKINNERS POND WIND ENERGY CENTRE**

| PROJECT NO: | DATE: |
|---|---|
| TE211027 | MARCH 2023 |
| REV NO: 1 | DWN BY: CM |
| DATUM: NAD83 CSRS 2010 | PROJECTION: PEI DBL STEREO |

FIGURE: **FIGURE 4.5**

SCALE: 1:30,000

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Metres

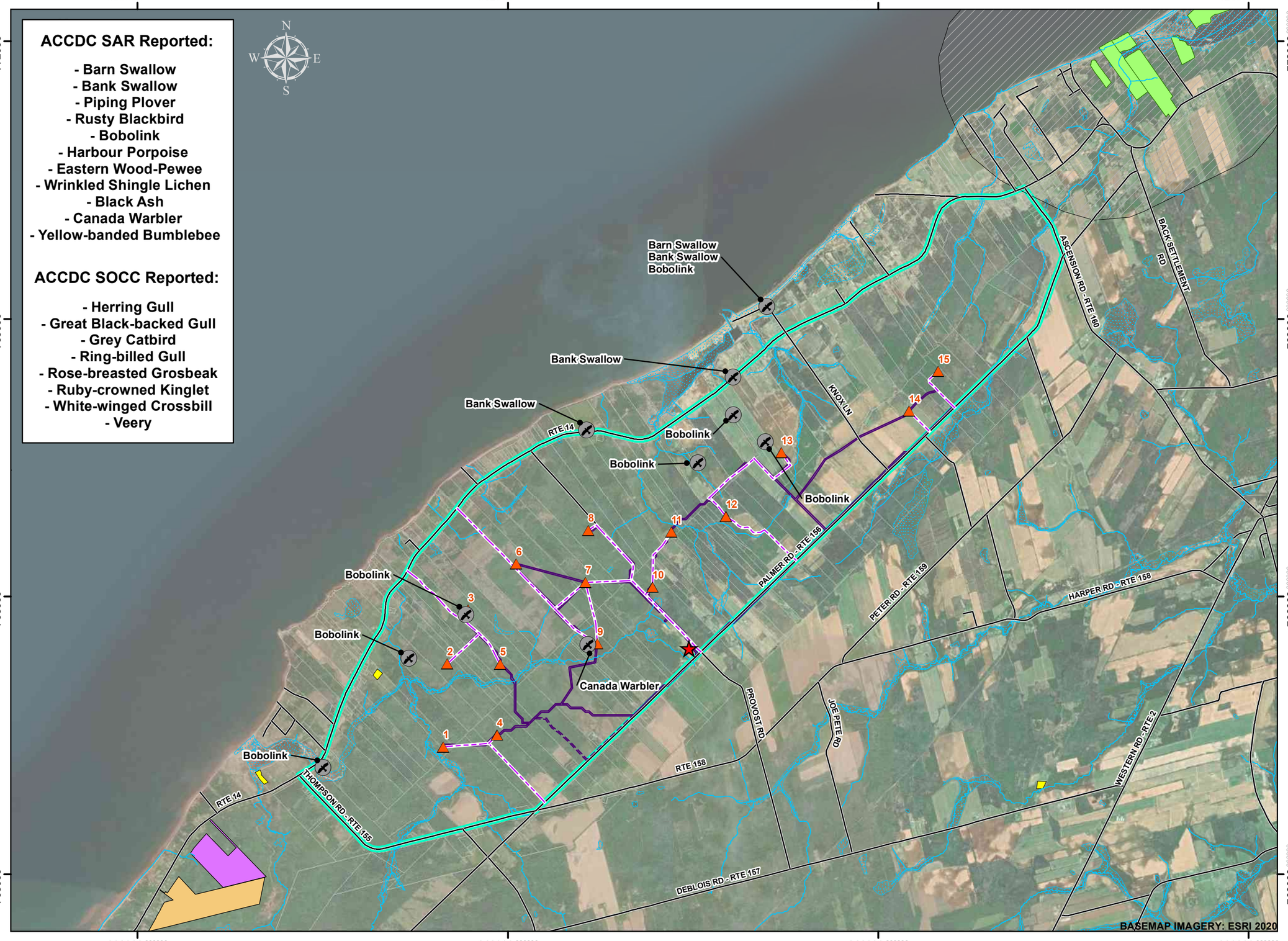
Path: Q:\PROJECTS\TE211027_Invenergy_Canada_EIA_Windfarm_PE\13 GIS\MXD\TE211027_FIGURE_4_4_Bird_SurveyLocations2021.mxd User: candace.macdonald Date: 3/28/2023

## ACCDC SAR Reported:

- Barn Swallow
- Bank Swallow
- Piping Plover
- Rusty Blackbird
- Bobolink
- Harbour Porpoise
- Eastern Wood-Pewee
- Wrinkled Shingle Lichen
- Black Ash
- Canada Warbler
- Yellow-banded Bumblebee

## ACCDC SOCC Reported:

- Herring Gull
- Great Black-backed Gull
- Grey Catbird
- Ring-billed Gull
- Rose-breasted Grosbeak
- Ruby-crowned Kinglet
- White-winged Crossbill
- Veery




LEGEND:

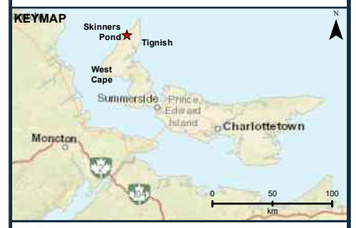
- 2021 Bird SAR Observations
- Turbine
- Point of Interconnection Option
- Turbine Laneway
- Roads
- Streams/Creeks
- Wetlands (Provincial)
- Power Collection Corridor
- Alternate Power Collection Corridor
- Property Boundary
- Project Area

**Managed Area**

- Ducks Unlimited Canada, PEI Conservation Agreements
- Nail Pond Natural Area
- Norway IBA
- Pleasant View Cedars Natural Area
- Pleasant View Cedars Woodland Natural Area

**ALL WIND FARM INFRASTRUCTURE MAPPING WAS PROVIDED BY INVENERGY LABELLED LAYOUT 016**

KEYMAP




CLIENT: Invenergy

wsp

TITLE: **FIELD IDENTIFIED SPECIES AT RISK**

PROJECT: **SKINNERS POND WIND ENERGY CENTRE**

| PROJECT NO: | DATE: |
|---|---|
| TE211027 | MARCH 2023 |
| REV NO: 5 | DWN BY: CM |
| DATUM: NAD83 CSRS 2010 | PROJECTION: PEI DBL STEREO |

FIGURE: **FIGURE 4.6**

SCALE: 1:40,000

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PETER RD - RTE 159
HARPER RD - RTE 158
PROVOST RD
JOE PETE RD
WESTERN RD - RTE 2
RTE 158
THOMPSON RD - RTE 155

BASEMAP IMAGERY: ESRI 2020

LEGEND:

- Bat Song Meter (SM-B)
- Turbine
- Point of Interconnection Option
- MET Tower
- Turbine Laneway
- Roads
- Streams/Creeks
- Wetlands (Provincial)
- Power Collection Corridor
- Alternate Power Collection Corridor
- Property Boundary
- Project Area

**ALL WIND FARM INFRASTRUCTURE MAPPING WAS PROVIDED BY INVENERGY LABELLED LAYOUT 016**

KEYMAP


CLIENT: Invenergy

wsp

TITLE: **BAT SURVEY LOCATIONS**

PROJECT: **SKINNERS POND WIND ENERGY CENTRE**

| PROJECT NO: | DATE: |
|---|---|
| TE211027 | MARCH 2023 |
| REV NO: 1 | DWN BY: CM |
| DATUM: NAD83 CSRS 2010 | PROJECTION: PEI DBL STEREO |

FIGURE: **FIGURE 4.7**

SCALE: 1:30,000

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MT-3 MT-4 MT-2 MT-5 MT-1 EF-1

RC-1 RC-2 RC-3 RC-4 RC-5 RC-6 RC-7 RC-8

PC-1 PC-6 PC-8 PC-9 PC-10 PC-11 PC-12 PC-13 PC-14a PC-14b

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WC1 WC2

RTE 14 RTE 158 RTE 155

KNOX LN

ASCENSION RD - RTE 169

BACKSETTLEMENT RD

PALMER RD - RTE 155

PETER RD - RTE 159

HARPER RD - RTE 158

PROVOST RD

JOE PETE RD

WESTERN RD - RTE 12

THOMPSON RD - RTE 155

Black Pond Brook

BASEMAP IMAGERY: ESRI 2020

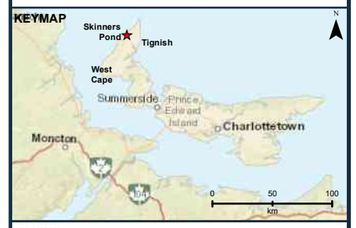
LEGEND:

**Supplementary Fish Surveys**

- Minnow Trapping Location (MT)
- Supplement E-fishing (EF)
- Turbine
- Point of Interconnection Option
- Road Crossings (RC)
- Powerline Crossings (PC)
- Turbine Laneway
- Roads
- Streams/Creeks
- Intermittent Streams/Creeks
- Black Pond Brook Watershed
- Skinners Pond Watershed
- Power Collection Corridor
- Alternate Power Collection Corridor
- Property Boundary
- Project Area

**ALL WIND FARM INFRASTRUCTURE MAPPING WAS PROVIDED BY INVENERGY LABELLED LAYOUT 016**

KEYMAP




CLIENT: Invenergy

wsp

TITLE: **FISH ASSESSMENT LOCATIONS**

PROJECT: **SKINNERS POND WIND ENERGY CENTRE**

| PROJECT NO: | DATE: |
|---|---|
| TE211027 | MARCH 2023 |
| REV NO: 1 | DWN BY: CM |
| DATUM: NAD83 CSRS 2010 | PROJECTION: PEI DBL STEREO |

FIGURE: **FIGURE 4.8**

SCALE: 1:30,000

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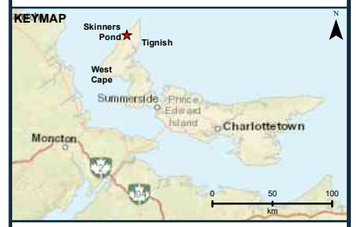
PALMER RD - RTE 156
PALMER RD - RTE 159
RTE 158
PROVOST RD
THOMPSON RD - RTE 155

BASEMAP IMAGERY: ESRI 2020

LEGEND:
- Turbine
- Turbine Laneway
- Roads
- Wetlands (Provincial)
- Archaeological High Potential Areas (HPA)
- Power Collection Corridor
- Alternate Power Collection Corridor
- Property Boundary
- Project Area

**ALL WIND FARM INFRASTRUCTURE MAPPING WAS PROVIDED BY INVENERGY LABELLED LAYOUT 016**

KEYMAP




CLIENT: Invenergy

wsp

TITLE: ARCHAEOLOGICAL RESOURCES

PROJECT: SKINNERS POND WIND ENERGY CENTRE

| PROJECT NO: | DATE: |
|---|---|
| TE211027 | MARCH 2023 |
| REV NO: 1 | DWN BY: CM |
| DATUM: NAD83 CSRS 2010 | PROJECTION: PEI DBL STEREO |

FIGURE: FIGURE 4.9

SCALE: 1:25,000

0 250 500 1,000
Metres

Path: Q:\PROJECTS\TE211027_Invenergy_Canada_EIA_Windfarm_PE\13 GIS\MXD\TE211027_FIGURE_4_8_Archaeology.mxd User: candace.macdonald Date: 3/28/2023

Invenergy | **Skinners Pond Wind Energy Centre**

# Contact Information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Manager, Communities, Stakeholders and First Nations

TELEPHONE
**(418) 391-7525**

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