CYPRESS
wind project

Today you will be able to meet the team, learn more about the Project and get answers to your questions.

WELCOME TO EDF EN CANADA'S OPEN HOUSE

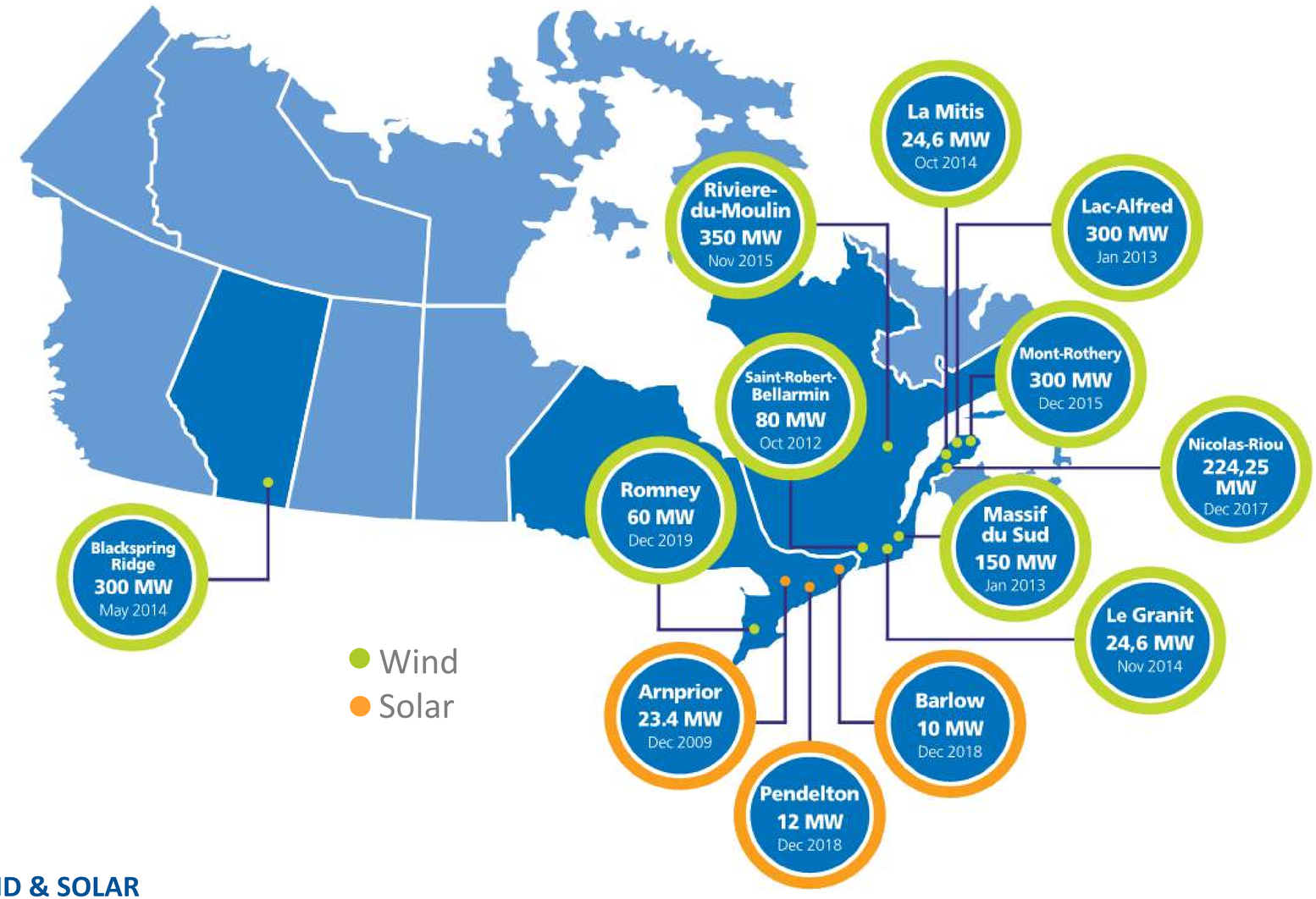
CYPRESS WIND POWER PROJECT

EDF
energies nouvelles

EDF EN CANADA

1 680 MW

Put into Service, under Construction or in Development



WIND & SOLAR

1 374 MW (350 000 homes) Commissioned Capacity

224 MW (54 900 homes) Under Construction

82 MW (20 100 homes) In Development

OPERATIONS & MAINTENANCE

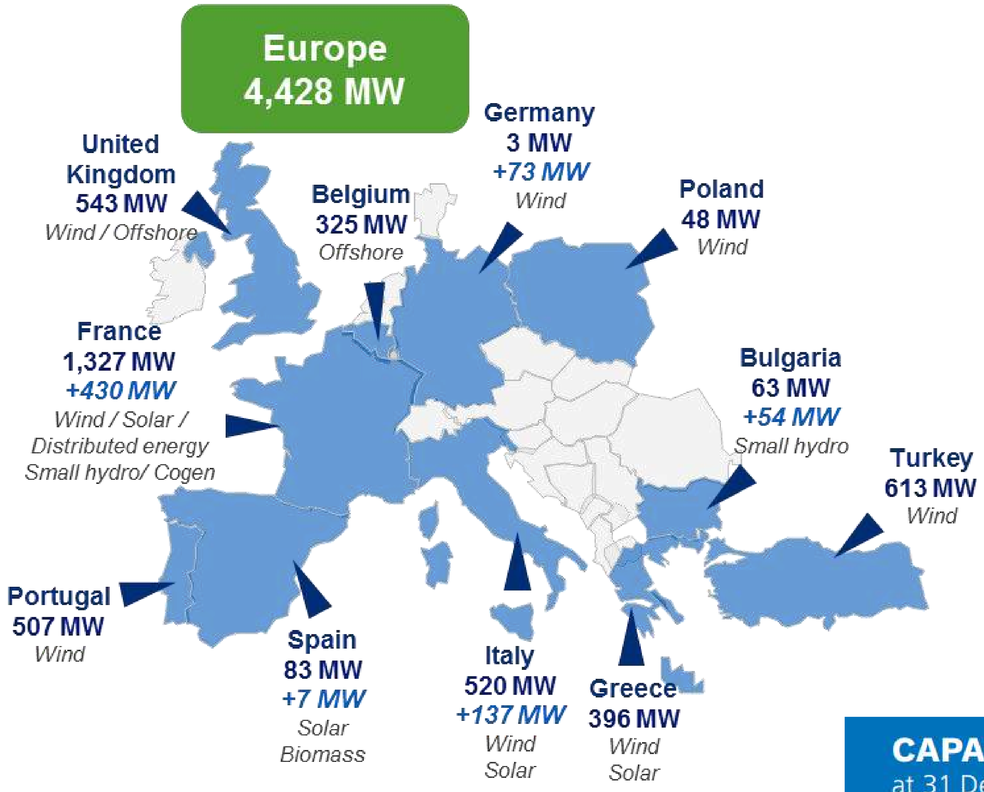
1 061MW Wind

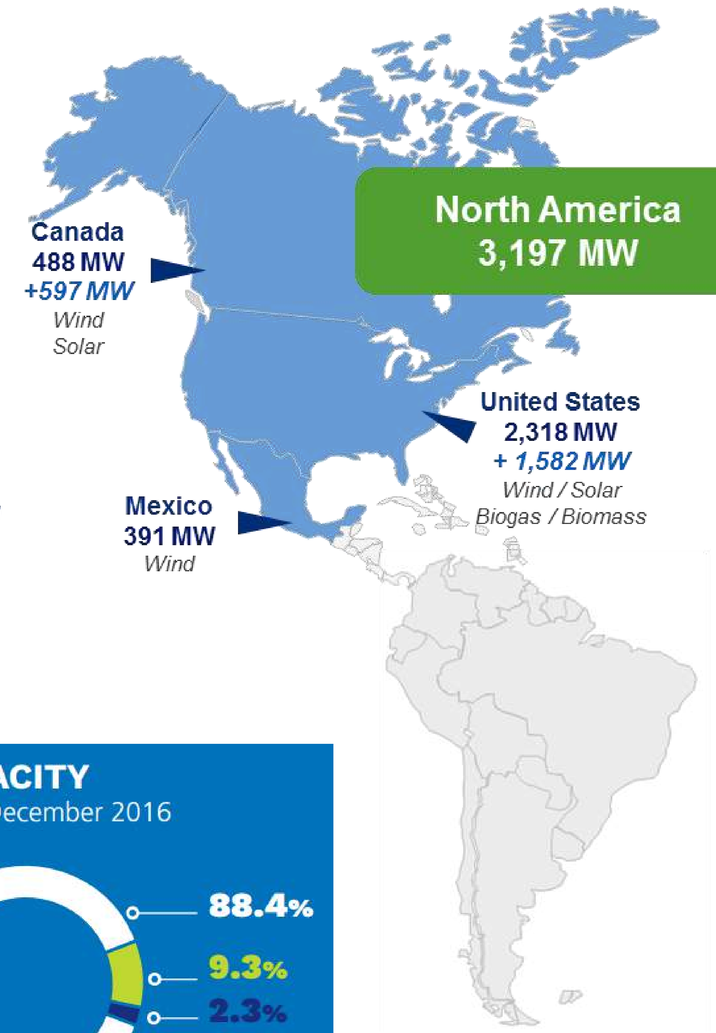
516 MW Solar

>$3.5 billion invested in Canada since 2008

EDF ENERGIES NOUVELLES

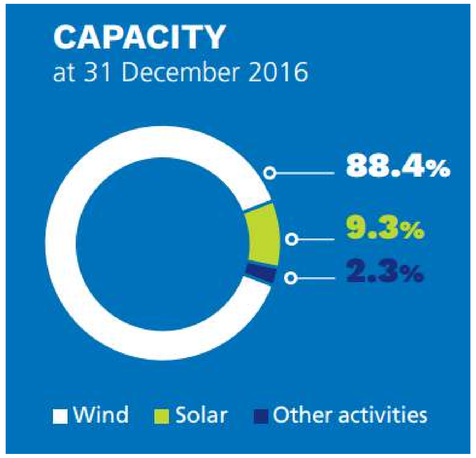
A WORLD LEADER IN RENEWABLE ENERGY





LEGEND

-MW : EDF EN **installed** capacity
-MW : EDF EN **developed, built and sold** capacity



21countries throughout North America, South America, Europe, Africa, the Middle East, and India

> **3,000 employees**

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WHAT IS THE AESO RENEWABLE ELECTRICITY PROGRAM?

Alberta is changing the mix of power generation to include a larger portion of renewable energy in the province - including wind and solar.

In March 2017, **the Alberta Electric System Operator (AESO)** launched the Renewable Electricity Program (REP) – a competitive procurement program intended to encourage the development of 5,000 MW by 2030.

The REP will administer a series of competitions. Round 1 of the program started in 2017 and the Project is interested in this program.

The first round of the REP competition includes the procurement of up to 400 MW of renewable electricity for projects that will be operational by December 1, 2019.

More information can be found at www.aeso.ca

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WHY DID WE PICK THIS PROJECT SITE?

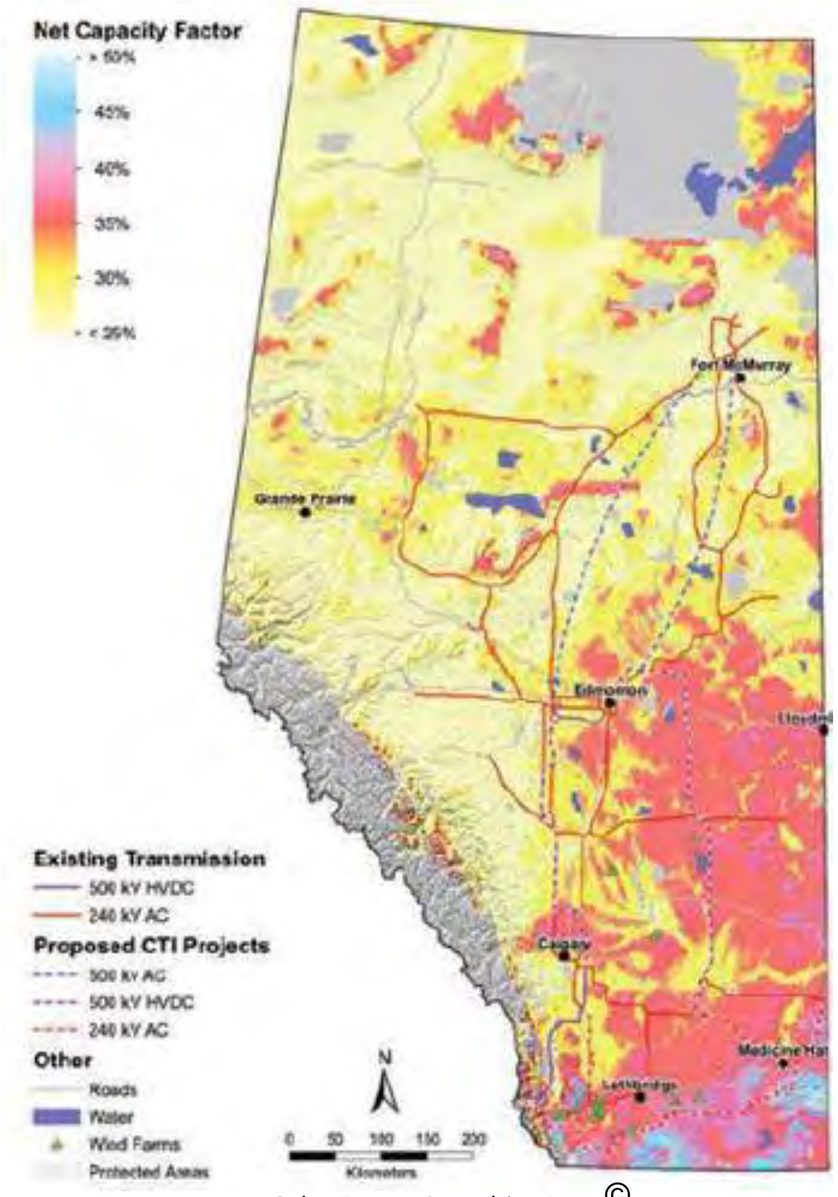
Close proximity to existing transmission

Strong wind resource

Supportive local community

Compatible with existing agricultural use

ALBERTA'S WIND RESOURCE



Solas Energy Consulting Inc. ©

ANTICIPATED PROJECT TIMELINE

ALBERTA'S RENEWABLE ENERGY APPROVAL PROCESS

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Step 1 *

Public consultation by the applicant.

Step 2

Application filed with the Alberta Utilities Commission (AUC) .

Step 3

The AUC issues a notice of application or notice of hearing.

Step 4*

Interested parties submit filings to the AUC with any outstanding issues or objections. If the AUC does not receive any submissions, the application will be reviewed and a decision may be made without a hearing.

Step 5*

The AUC issues a notice of hearing, if it was not already issued in Step three.

- Continued opportunity for consultation and negotiation with the applicant.

Step 6*

Public Hearing

Step 7

The AUC issues its decision. Options the AUC may consider for:

Needs applications from the Alberta Electric System Operator:

- Approval of applications.
- Return to the Alberta Electric System Operator with suggestions.
- Denial of application.

Facilities applications:

- Approval of application.
- Approval of application with conditions.
- Denial of application.

Step 8

Options to appeal decision or ask the AUC to review its decision.

Step 9

Approvals, construction and operation of facility, if approved.

*Denotes opportunity for public involvement.

WHY WIND MAKES SENSE

1 MW Turbine

~ 300 homes

= 25 Households

Every 1 000 MW of new wind energy drives $2.5 billion in investments, creates 10 500 person-years of employment, and provides enough clean power for over 300 000 Canadian homes.

Source: CanWEA http://windfacts.ca/community-property

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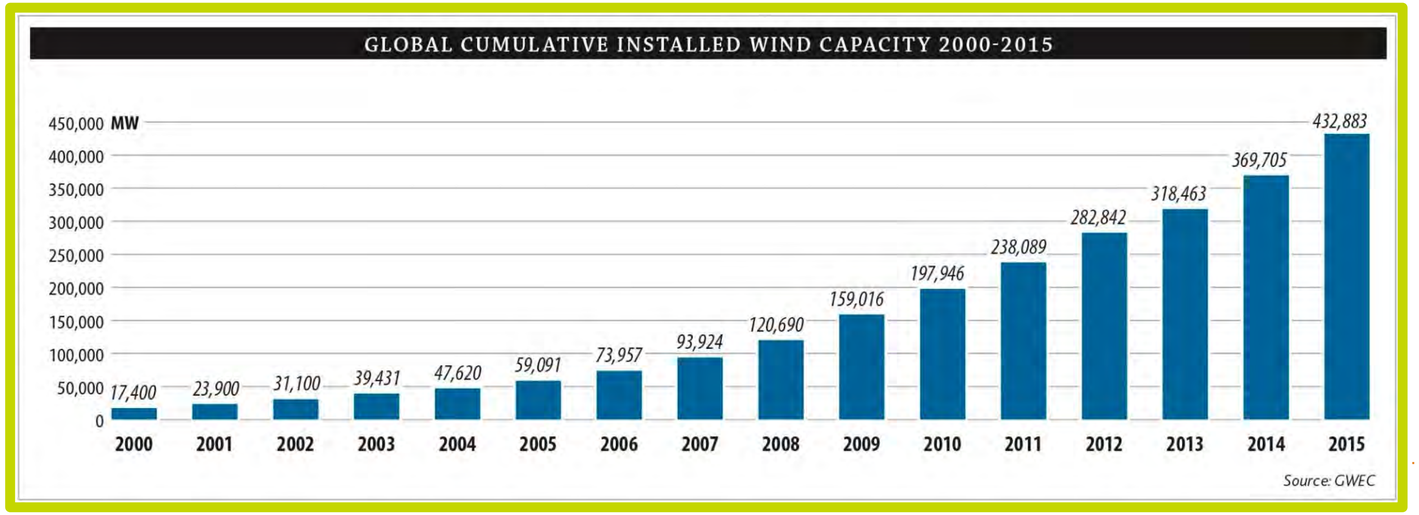
Global Installed Wind Capacity 2000-2015



Clean power

Wind energy reduces dependence on other forms of electricity generation that contribute to greenhouse gas emissions.

Local job opportunities

Contractors, suppliers and local businesses benefit from the direct and indirect economic activity the project brings to the local economy.

Clear air

Wind energy emits no greenhouse gas during the production of electricity.

Water conservation

Wind turbines do not use water to produce electricity.

Predictable pricing

Wind generated electricity prices are fixed and stable, unlike natural gas or oil which have volatile and unpredictable pricing.

HEALTH CANADA STUDY: WIND TURBINE NOISE AND HEALTH STUDY

In 2014, Health Canada commissioned a $1.2 million study on the potential impacts of wind turbines on human health.

A hardcopy of the key findings brochure is available. Please ask any EDF EN Canada staff for a copy.

Illness and disease

No evidence was found to support a link between exposure to wind turbine sound and any of the self-reported illnesses and/or chronic conditions.

Stress

No association was found between the multiple measures of stress and exposure to wind turbine sound.

Sleep

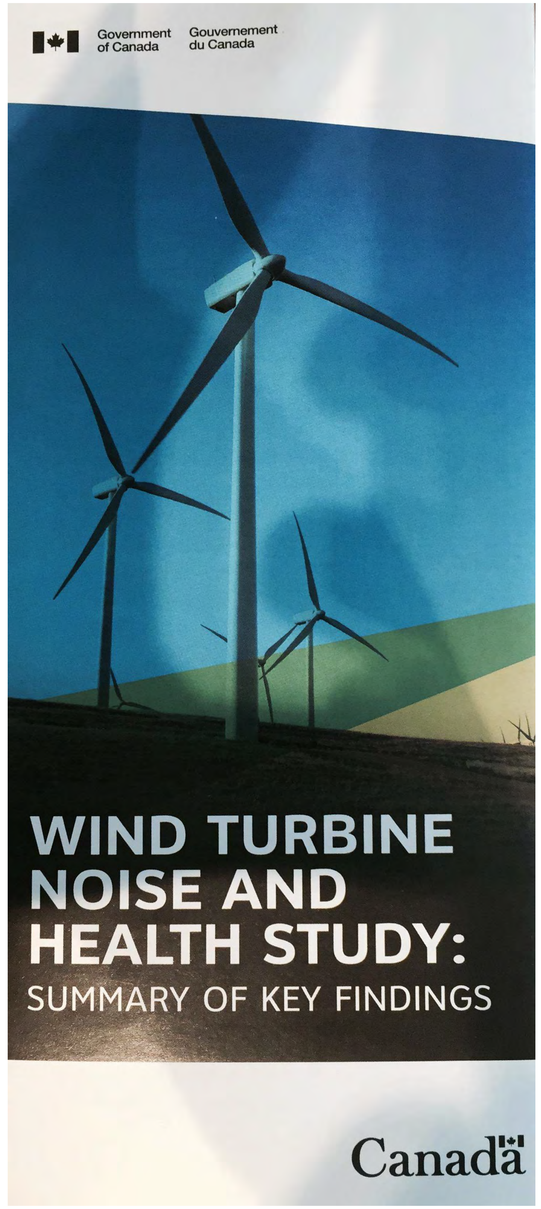
No association between wind turbine sound and self-reported or measured sleep quality.

Annoyance and quality of life

No association was found with any significant changes in reported quality of life, or with overall quality of life and satisfaction with health.*

Ontario Chief Medical Officer's 2010 report which concluded:

*There is "**no scientific evidence** of any direct causal link between wind turbines and adverse health effects."*



*Assessed using the World Health Organization's Quality of Life Scale.

WIND AND PROPERTY VALUES

According to CANWEA, studies have consistently shown there is <u>no causal relationship</u> between wind farms and negative impacts on property values.

"The Board finds there is **<u>no evidence</u>** to allow the Board to conclude that since the construction of the wind farm properties on what [the landowner] defines as the west side of the Island have sold for less than properties on the east side."

(Source: Ontario Assessment Review Board. File No: WR 113994. Municipality: Township of Frontenac Islands)

In 2014, MPAC (Municipal Property Assessment Corporation) performed a study that looked at all properties close to 1 157 turbines in total, and concluded that "there is **<u>no statistically significant impact</u>** on sale prices of residential properties in these market areas resulting from proximity to an industrial wind turbine."

(Source: Municipal Property Assessment Corporation)

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AVIAN IMPACTS

“It is estimated that each year more than 10 000 migratory birds are killed in Toronto between the hours of 11:00 p.m. and 5:00 a.m. in collisions with brightly lit office towers.”

Source: www.flap.org

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Well sited wind projects should have minimal impacts upon local bird and bat populations.

- Working closely with Alberta Environment and Parks, EDF EN Canada Development will undertake significant bird and bat studies to quantify potential risks and develop mitigation tools to ensure sustainable development.
- Potential impact on birds, bats and raptors will be considered in the Environmental Evaluation.
- A multi-year post-construction wildlife monitoring program will be undertaken to determine the actual Project effects.

A report published in Avian Conservation & Ecology stated:

“Overall…the effects of collisions, nest mortality, and lost habitat on birds associated with Canadian wind farms appear to be relatively small compared to other sources of mortality.”

Source: Zimmerling, R. J., Pomeroy, A.C., d’Entremont, M. V., and Francis, C.M. (2013)

IN HARMONY WITH AGRICULTURE

- Support of local landowners is paramount to EDF EN Canada’s success. We work diligently to ensure our neighbors have a full understanding of the proposed projects.
- Well-designed wind energy projects complement farming activity with minimal disruption.
- We work very closely with our landowners to have project infrastructure fit with current and future land use.

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ENVIRONMENTAL AND TECHNICAL ACTIVITIES UNDERWAY

Wind power project design includes consideration of impacts on wildlife and vegetation.

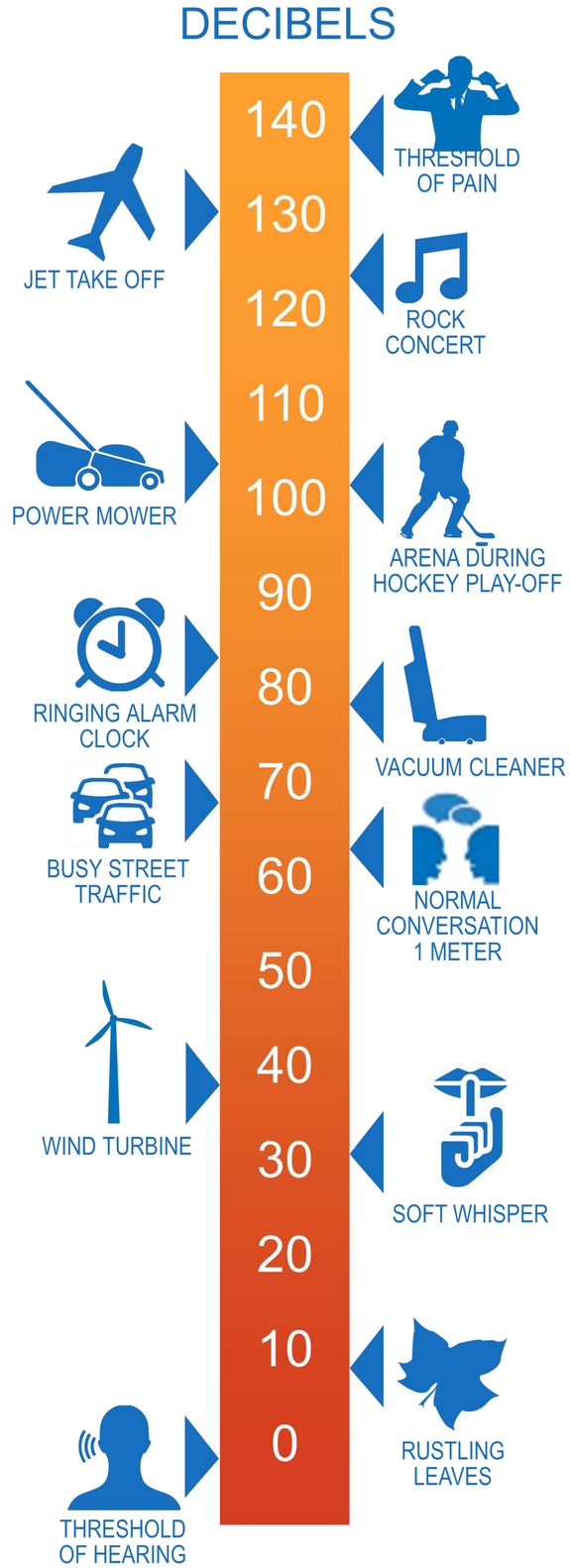
EDF EN Canada commenced environmental studies in 2016. Studies that will be completed in 2017 include:

- Wildlife – birds, bats and other wildlife
- Wetlands
- Noise Impact Assessment
- Historical Resources

Throughout the development of the Project, we will work closely with Alberta Environment and Parks to ensure a robust understanding of the site.

NOISE IMPACT ASSESSMENT

- All wind energy projects must meet Alberta Utilities Commission (AUC) Rule 012: Noise Control.
- The Noise Impact Assessment will be completed for all residences and dwellings within 1.5 kilometres of the Project.
- The study will include the noise from the Project and other operational and proposed facilities nearby.
- The results of the Noise Impact Assessment were used to determine the final turbine layout.
- The resulting noise contours are available on the Infrastructure, Shadow Flicker, and Noise Maps for Options A and B.



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MUNICIPAL AND LOCAL COMMUNITY BENEFITS

EDF EN Canada values the long-term benefits of working with the local community. If the Project is approved, the local community will benefit from:

- **Employment** opportunities during the construction and operation phases of the Project
- **Contract opportunities** for local businesses
- **Local investments** into hospitality and construction services during the development, construction and operation phases of the Project
- **Tax revenues** throughout the life of the Project

LOCAL ECONOMIC BENEFITS

Direct benefits

The Project will result in increased job opportunities for the local area. Some of these job opportunities may include:

- Surveying
- Civil engineering
- Mechanical work
- Electrical work
- Road construction
- Transportation equipment
- Earthwork activities
- Maintenance of vehicle fleet
- Maintenance paths
- Snow removal
- Other related services

Indirect benefits

Increased spending on goods and services during the operations and construction phases.

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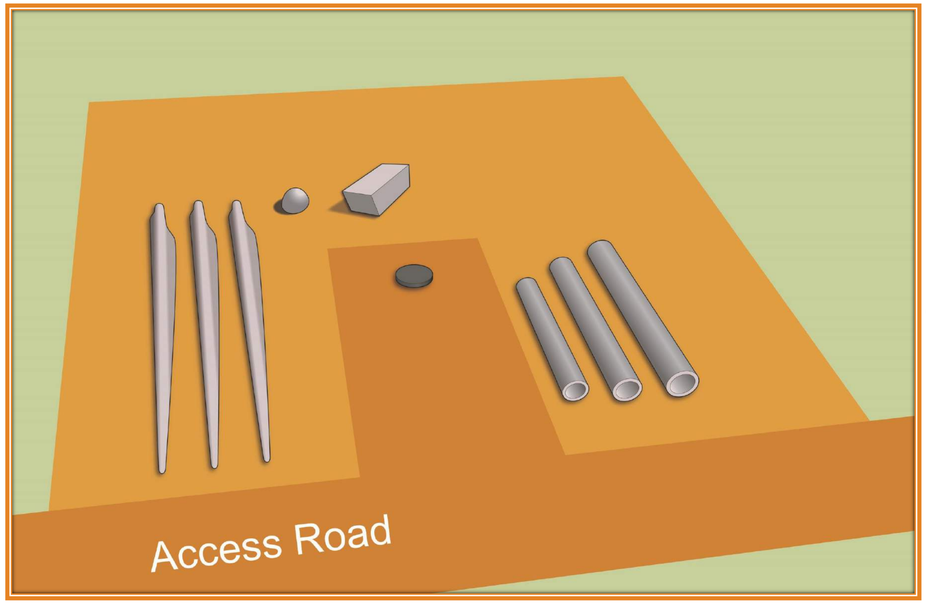
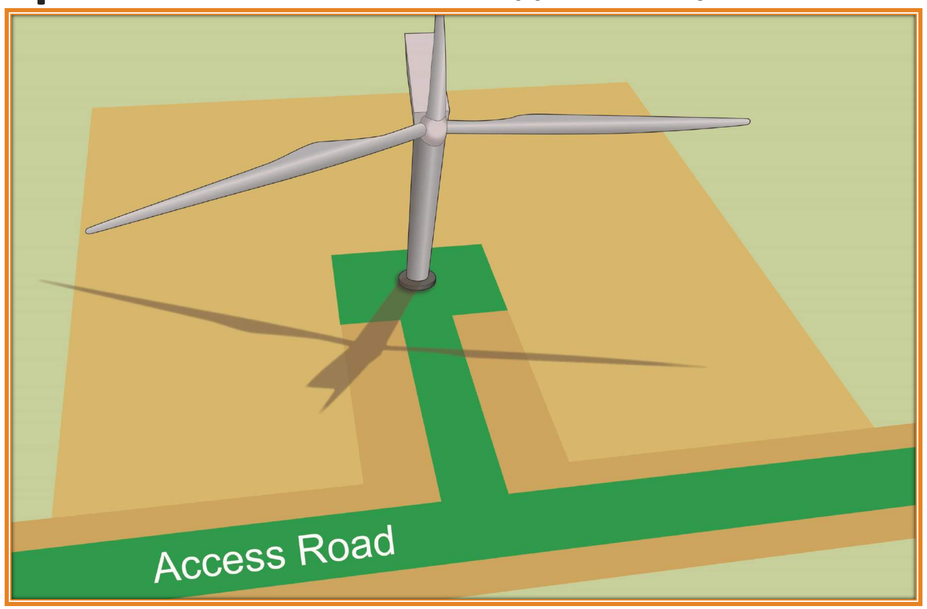
ACCESS ROAD & TURBINE PAD

Construction Phase - 5 acres / turbine



A temporary turbine pad area of about 80m diameter will be created at each turbine location, in order to deliver all the required turbine components on each turbine pad.

Operational Phase – approximately 0.25 to 0.5 acres / turbine



After construction, the access road width and the turbine pad will be reduced to limit impacts on agricultural use.

Turbine pad after construction

Access road and turbine pad during operation

TURBINE FOUNDATION & COLLECTION SYSTEM CONSTRUCTION

- **The turbines will be installed on top of a buried, cast-in-place reinforced concrete foundation.**

Foundation excavation. Diameter approx. 20 m

Reinforcing steel installation. Between 40-50 tons of rebar

Each foundation requires approx. 400-600 m^3 of concrete.

- **The electrical system will consist of underground cables or overhead lines and a Project collector substation. Ploughing, trenching, and directional drilling will be used to install underground cables. The cabling will be buried at a depth that will not interfere with normal agricultural practices.**

Buried collection system

Substation connecting a project to a transmission line

TURBINE ASSEMBLY

Transportation of turbine components

Approximately 12 trucks are required for delivery of a complete turbine.

Tower assembly

6 to 7 tower sections.

Nacelle installation

The nacelle weighs about 65 tons.

Blade assembly

The blades will be attached to the hub on the ground or lifted one at a time onto the hub.

OPERATION AND MAINTENANCE BUILDING & PERMANENT METEORLOGICAL TOWERS

- An operation and maintenance (O&M) building will be built to allow operators to maintain the turbines and house spare parts.
- Wind speed, wind direction, temperature and humidity will be measured by permanent meteorological towers. At least one permanent meteorological tower will remain on site for the duration of the Project.

CYPRESS wind project

PROJECT DESCRIPTION

DEVELOPER	EDF EN Canada Inc.
PROJECT NAME	Cypress Wind Power Project
HOST MUNICIPALITIES	Cypress County
CONTRACT CAPACITY	Up to 235.2 MW

ENERGY

The Project will generate sufficient electricity to power up to 70,000 homes

LOCATION

Located on approximately 12,500 acres of privately owned land

ELECTRIC SYSTEM

Each turbine will be linked to the Project collector substation by a collector system that will be underground, wherever practical. The location of the Project collector substation has not been determined at this time.

INTERCONNECTION

The Project will be interconnected to the 240 kilovolt (kV) transmission system in the area that is operated by AltaLink.

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CYPRESS wind project

UPDATES SINCE APRIL 2017 OPEN HOUSE

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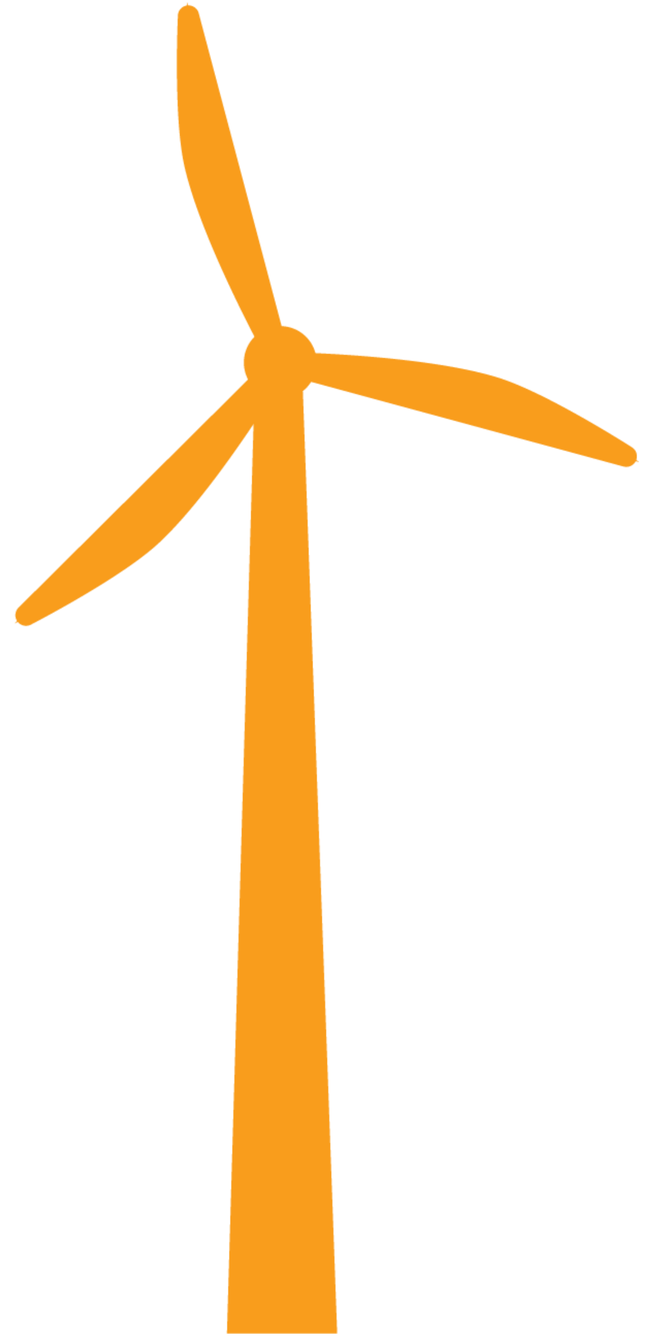
Starting in 2016, we have continued to consider your feedback and have developed two project layouts. These are for the two proposed turbine models: Option A and Option B. We will file only one turbine model in the AUC application.

New Project updates include:

- Turbine Options A and B – Selected the Vestas V136 4.2 MW and the Gamesa G132 3.465 MW models
- Visual Simulations – Images for what the Project may look like are available for review for Option A and Option B.
- Environmental Studies – Field work will be complete in 2017.
- Changes to the Project boundary – Reduced to minimize impact on the community.
- Shadow Flicker Analysis – Results are available in the Infrastructure, Shadow Flicker, and Noise Maps for Option A and Option B.
- Noise Impact Assessments – Noise contours are available in the Infrastructure, Shadow Flicker, and Noise Maps for Option A and Option B.

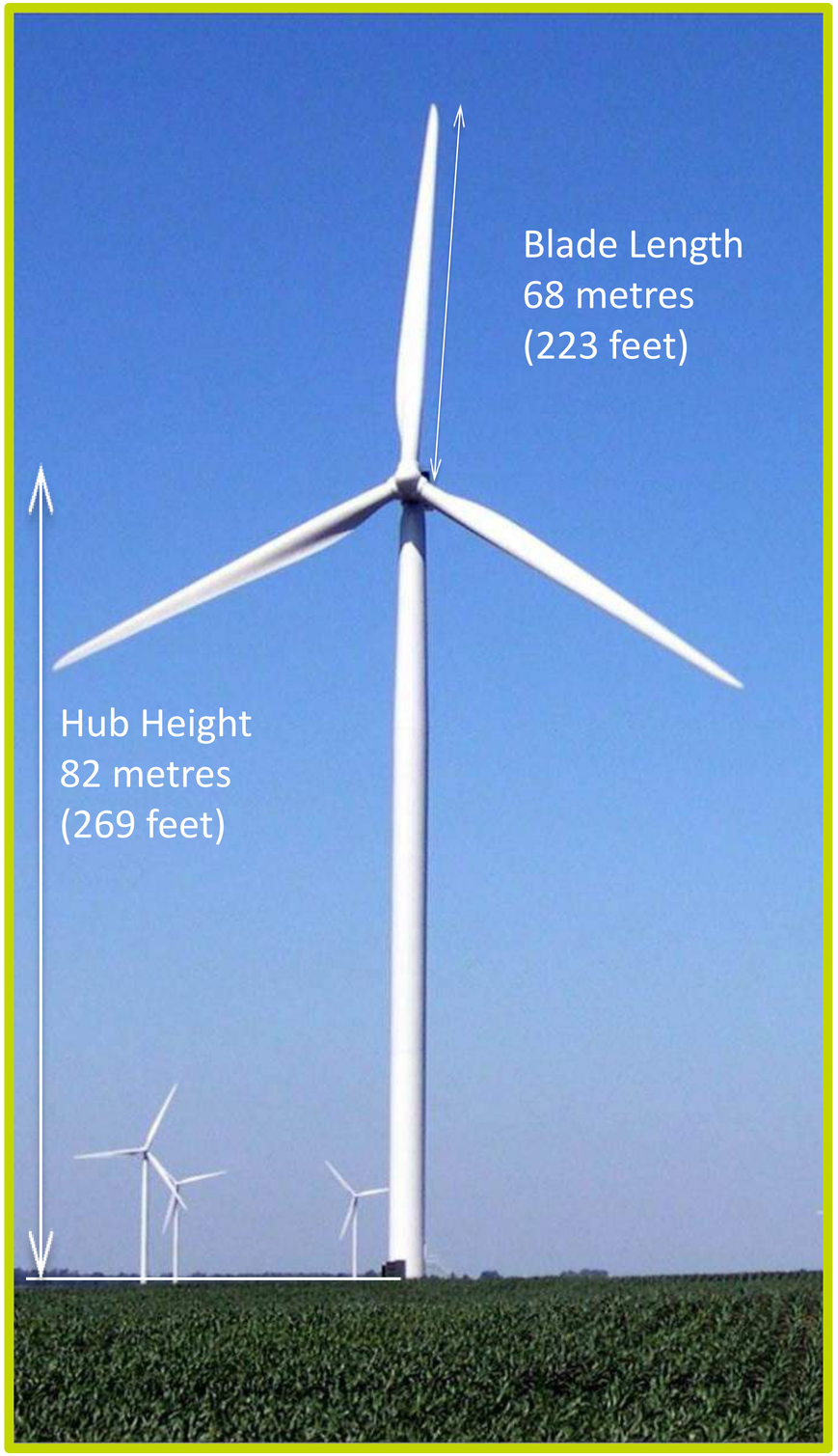


CYPRESS wind project

TYPICAL PROJECT INFRASTRUCTURE

TURBINE OPTION A: VESTAS V136 4.2 MW

- Wind Turbines
  - Vestas Turbines
  - Blades (68 metres)
  - Hub Height (82 metres)
  - Rotor Diameter (136 metres)
  - Foundation
  - Capacity (4.2 megawatts)
- Access Roads
- Temporary Laydown Area
- Collector System
- Project Collector Substation
- Operation and Maintenance Building
- Temporary and Permanent Meteorological Towers



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TYPICAL PROJECT INFRASTRUCTURE

TURBINE OPTION B: GAMESA G132 3.465 MW

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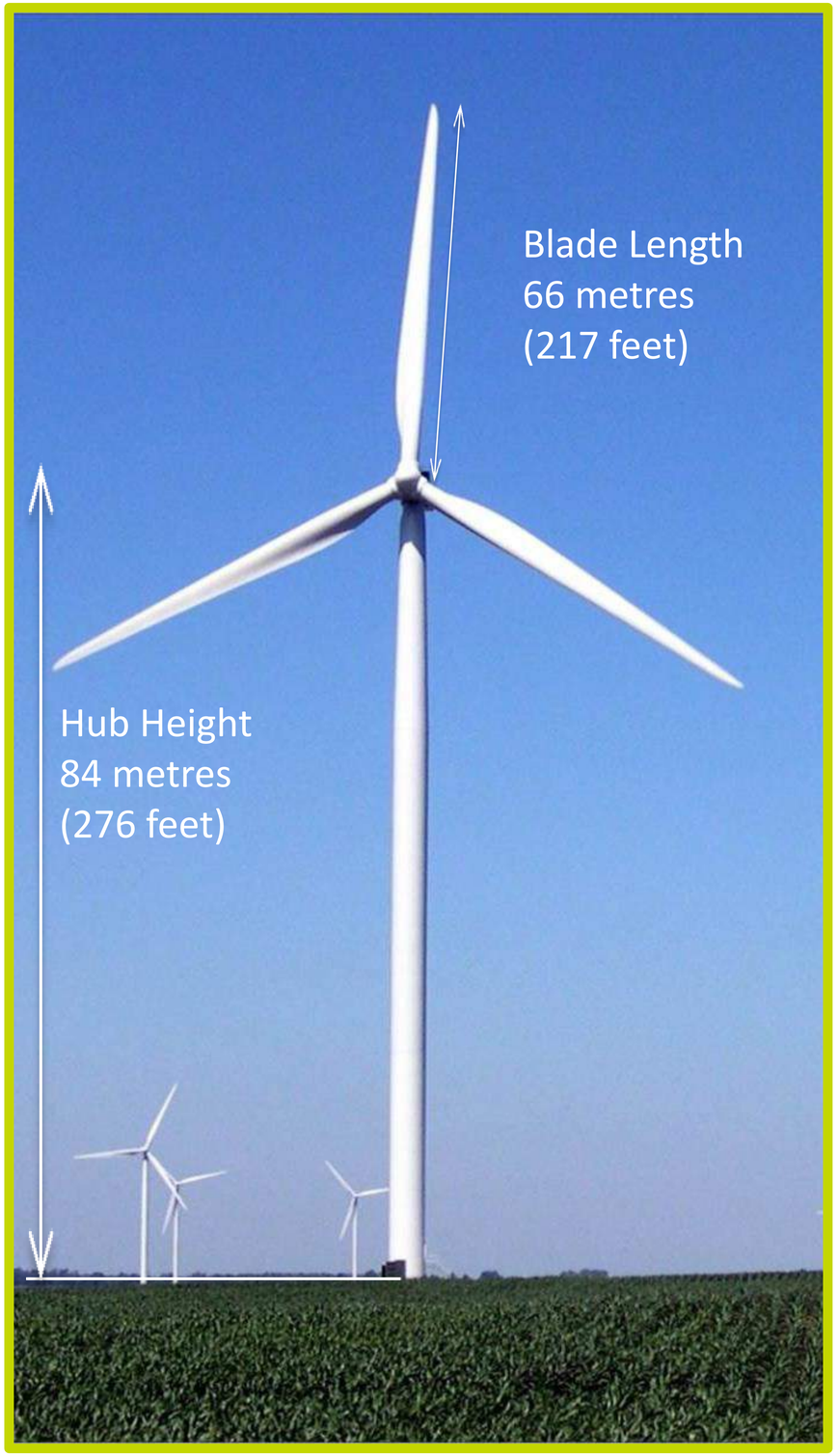
- Wind Turbines
  - Gamesa Turbines
  - Blades (66 metres)
  - Hub Height (84 metres)
  - Rotor Diameter (132 metres)
  - Foundation
  - Capacity (3.465 megawatts)
- Access Roads
- Temporary Laydown Area
- Collector System
- Project Collector Substation
- Operation and Maintenance Building
- Temporary and Permanent Meteorological Towers



CYPRESS wind project

TURBINE OPTION A AND TURBINE OPTION B

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Based on public consultation and studies including environmental studies, constraints analyses, and wind resource assessments, we have selected Turbine Option A and Turbine Option B. Each Turbine Option is illustrated in the Infrastructure, Shadow Flicker and Noise maps.

	Turbine Option A	Turbine Option B
Turbine Model	Vestas V136 4.2	Gamesa G132 3.465
Turbine Capacity (MW)	4.2	3.465
Rotor Diameter (metres)	136	132
Hub Height (metres)	82	84
Blade Length (metres)	68	66
Number of Turbine Locations	56	61
Total Project Capacity (MW)	235.2	211.37

SHADOW FLICKER ANALYSIS

- Shadow flicker is caused when the turbine blades cast a shadow on nearby residences.
- Residences within 2km of the project were considered in the shadow flicker.
- The worst-case scenario was evaluated, and does not account for the orientation of windows or mitigation from nearby trees or structures.
- The shadow flicker results are presented on a color scale that correlates with the anticipated worst-case annual hours of shadow flicker. These are available on the Infrastructure, Shadow Flicker, and Noise Maps for Options A and B.

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THANK YOU FOR ATTENDING

Your feedback is important to us

Did you fill out a feedback form ?

CONTACT US
PHONE:
844-55-EDF-EN /
844-553-3336
WEBSITE:
www.edf-en.ca/project/cypress-wind-power-project/

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Before

After

Title:	**Photomontage: Location 9 (G132)**
Client:	**Cypress Wind Project**

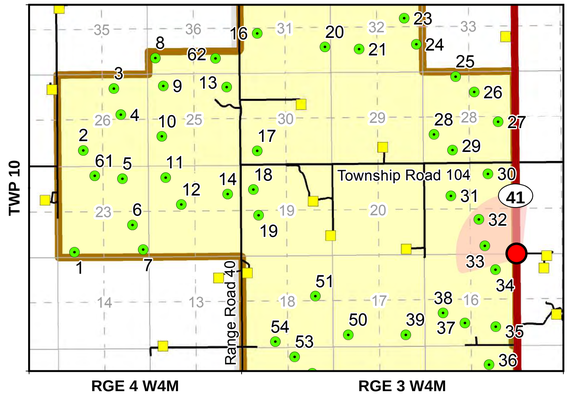
Datum: NAD 83
Projection: UTM Zone 12N
Scale: N.T.S.

Date: 2017-11-09
Version: 1

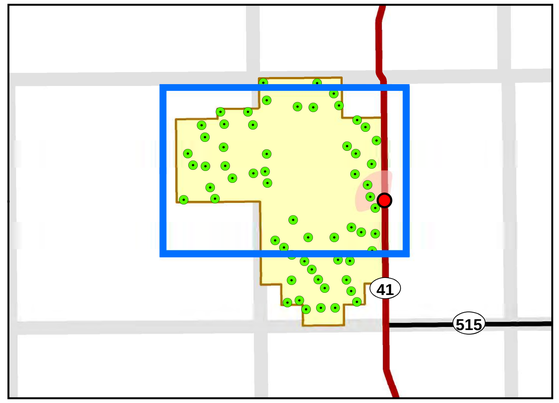
Prepared By: WSP Canada Inc.
Author: S. Schnick
Reviewed: A. Louro
Approved: R. Istchenko

Notes:
Photographs taken with Canon ESO 5D Mk II camera and Canon EF24-70mm f/2.8L lens set at 50 mm. Panoramic view compiled from multiple individual photographs. Photomontage simulated using Siemens-Gamesa G132 3.465 MW turbine with rotor diameter of 132 m and hub height of 84 m using 61 turbine locations (Layout Lv07).

Data Sources:
Populated places, roads, Alberta Township System, and municipal boundaries from AltaLIS, licensed under the Open Government Licence – Alberta.



Legend:
- Photo Location
- Panorama Field of View (approximate)
- Project Lands
- Proposed Turbine Location
- Residence
- Major Highway
- Road
- Township Line
- Section Line
- Quarter-section Line



Before

After

Title:	**Photomontage: Location 9 (V136)**
Client:	**Cypress Wind Project**

CYPRESS wind project

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Datum: NAD 83
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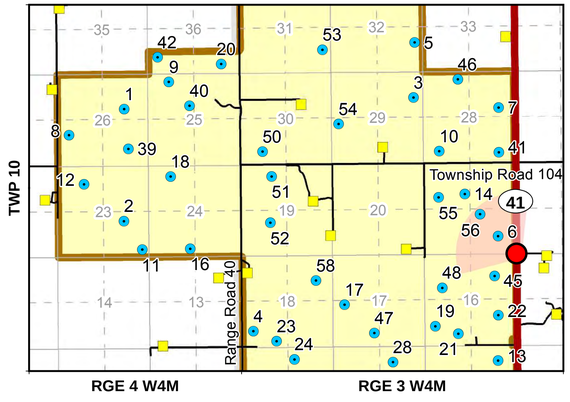
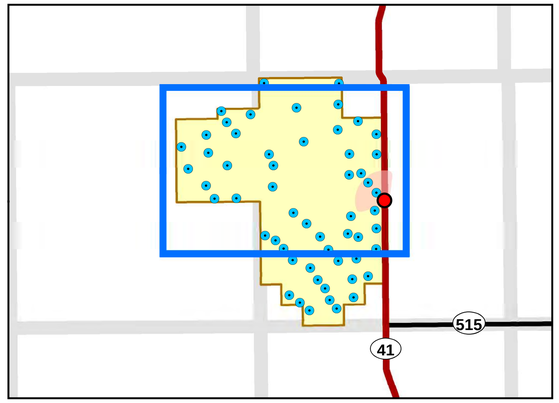
Data Sources:
Populated places, roads, Alberta Township System, and municipal boundaries from AltaLIS, licensed under the Open Government Licence – Alberta.



Legend:
- Photo Location
- Panorama Field of View (approximate)
- Project Lands
- Proposed Turbine Location
- Residence
- Major Highway
- Road
- Township Line
- Section Line
- Quarter-section Line



PROJECT OVERVIEW

Cypress Wind Project | Alberta

Turbine Location v7 - Gamesa G132 - 3.465MW
Project Substation
O&M and Laydown Yard
38.3 dBA Sound Contour
Occupied Residence
Abandoned Residence
Worst Case Shadow Flicker
Hours per Year
0
0 - 8
8 - 15
15 - 30
Over 30
Access Road
Paved Road
Gravel Road
Unimproved Road
Collection Line
Project Boundary
Parcels and Land Owners
Ag Building
Distribution Lines
Water Wells
Oil & Gas Active Well
Oil & Gas other wells
Pipeline
Stream
Native Prairie
Coulees (Estimated)
Wetlands
Class 1
Class 2
Class 3+
County/Municipal District
Township
Section
Within 2km
Within 800m
0 0.5 1 2 3 4 5 Kilometers
Source: Source 1 YYYY, Source 2 YYYY | G:\Projects\GAN_Alberta\Cypress_Wind\05_GIS\052_Maps\Docs\SitePlan v7_E_Size_Gamesa_Cypress.mxd | Last Updated 11/10/2017 by craig.weber
T11 - R4
T11 - R3
T10 - R4
T10 - R3
T9 - R3
Township Rd 110
Township Rd 104
Township Rd 102
Township Rd 100
Range Rd 43
Range Rd 42
Range Rd 41
Range Rd 40
Range Rd 39
CYP 01
CYP 02
CYP 03
CYP 04
CYP 05
CYP 06
CYP 07
CYP 08
CYP 09
CYP 10
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CYP 12
CYP 13
CYP 14
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CYP 20
CYP 21
CYP 22
CYP 23
CYP 24
CYP 25
CYP 26
CYP 27
CYP 28
CYP 29
CYP 30
CYP 31
CYP 32
CYP 33
41
515
524
523
887
514
Redcliff
Medicine Hat
Cypress Hills Provincial Park
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PROJECT OVERVIEW

Cypress Wind Project | Alberta

Turbine Location v8 - Vestas V136 - 4.2 MW
Project Substation
O&M and Laydown Yard
Occupied Residence
Abandoned Residence
38.3 dBA Sound Contour

Worst Case Shadow Flicker

Hours per Year

0
0 - 8
8 - 15
15 - 30
Over 30

Collection Lines

Access Roads

Access Roads
Paved Road
Gravel Road
Unimproved Road

Project Boundary
Parcels and Land Owners
Ag Building
Distribution Lines
Water Wells
Oil & Gas Active Well
Oil & Gas other wells
Pipeline
Stream
Native Prairie
Coulees (Estimated)

Wetlands

Class 1
Class 2
Class 3+
County/Municipal District
Township
Section
Within 2km
Within 800m

0 0.5 1 2 3 4 5 Kilometers

Source: Source 1 YYYY, Source 2 YYYY | G:\Projects\CAN_Alberta\Cypress_Wind\05_GIS\05.2_MapDocs\SitePlan_v8_E_Size_Vestas_Cypress.mxd | Last Updated 11/10/2017 by cindy.weber

edf energies nouvelles

Before

After

Title: **Photomontage: Location 3 (G132)**

Client: **Cypress Wind Project**

CYPRESS wind project

EDF energies nouvelles

Datum: NAD 83
Projection: UTM Zone 12N
Scale: N.T.S.

Date: 2017-11-09
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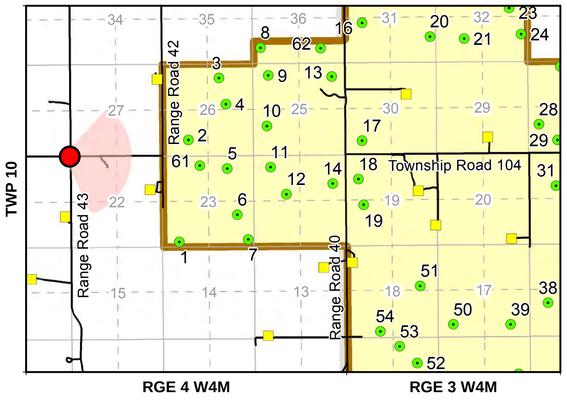
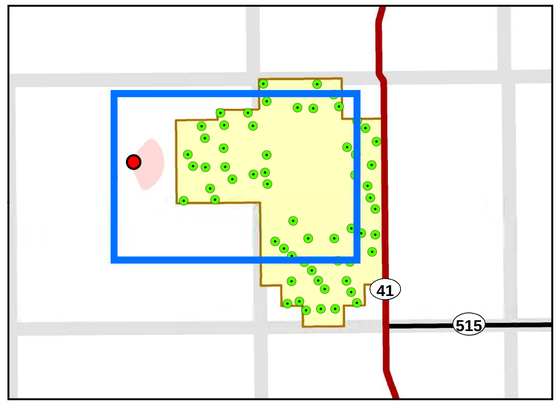


Legend:
- Photo Location
- Panorama Field of View (approximate)
- Project Lands
- Proposed Turbine Location
- Residence
- Road
- Township Line
- Section Line
- Quarter-section Line



Before

After

Title: **Photomontage: Location 3 (V136)**

Client: **Cypress Wind Project**

CYPRESS wind project

EDF energies nouvelles

Datum: NAD 83
Projection: UTM Zone 12N
Scale: N.T.S.

Date: 2017-11-09
Version: 1

Prepared By: WSP Canada Inc.
Author: S. Schnick
Reviewed: A. Louro
Approved: R. Istchenko

Notes:
Photographs taken with Canon ESO 5D Mk II camera and Canon EF24-70mm f/2.8L lens set at 50 mm. Panoramic view compiled from multiple individual photographs. Photomontage simulated using Vestas V136 4.2 MW turbine with rotor diameter of 136 m and hub height of 82 m using 56 turbine locations (Layout Lv08).

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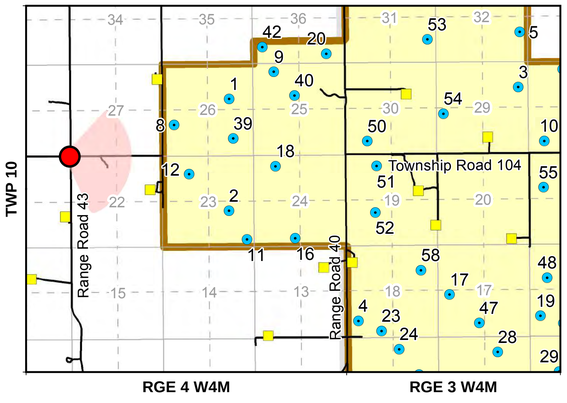
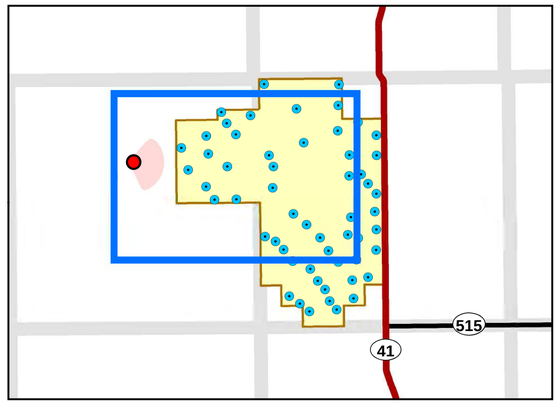


Legend:
- Photo Location
- Panorama Field of View (approximate)
- Project Lands
- Proposed Turbine Location
- Residence
- Road
- Township Line
- Section Line
- Quarter-section Line



Before

After

Title: **Photomontage: Location 3 (V136)**

Client: **Cypress Wind Project**

CYPRESS wind project

EDF energies nouvelles

Datum: NAD 83
Projection: UTM Zone 12N
Scale: N.T.S.

Date: 2017-11-09
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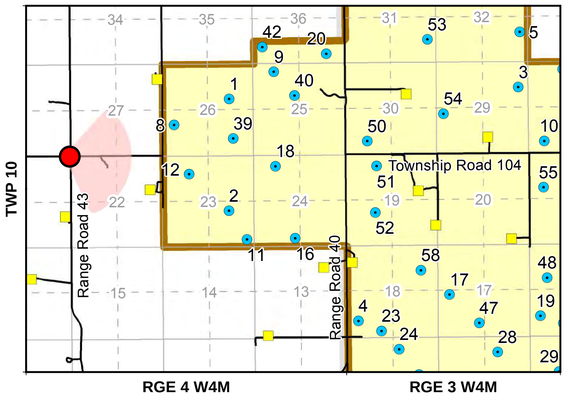
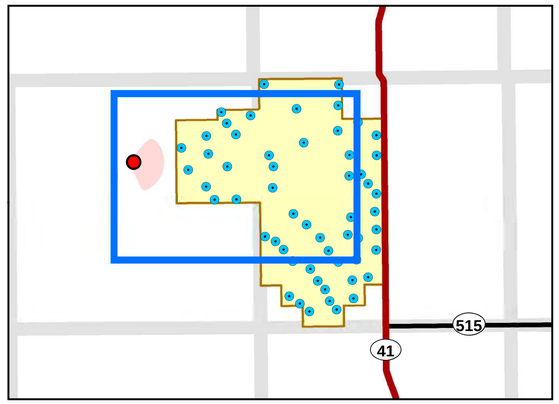


Legend:
- Photo Location
- Panorama Field of View (approximate)
- Project Lands
- Proposed Turbine Location
- Residence
- Road
- Township Line
- Section Line
- Quarter-section Line



Before

After

Title: **Photomontage: Location 6 (G132)**

Client: **Cypress Wind Project**

CYPRESS wind project

EDF energies nouvelles

Datum: NAD 83
Projection: UTM Zone 12N
Scale: N.T.S.

Date: 2017-11-10
Version: 1

Prepared By: WSP Canada Inc.
Author: S. Schnick
Reviewed: A. Louro
Approved: R. Istchenko

Notes:
Photographs taken with Canon ESO 5D Mk II camera and Canon EF24-70mm f/2.8L lens set at 50 mm. Panoramic view compiled from multiple individual photographs. Photomontage simulated using Siemens-Gamesa G132 3.465 MW turbine with rotor diameter of 132 m and hub height of 84 m using 61 turbine locations (Layout Lv07).

Data Sources:
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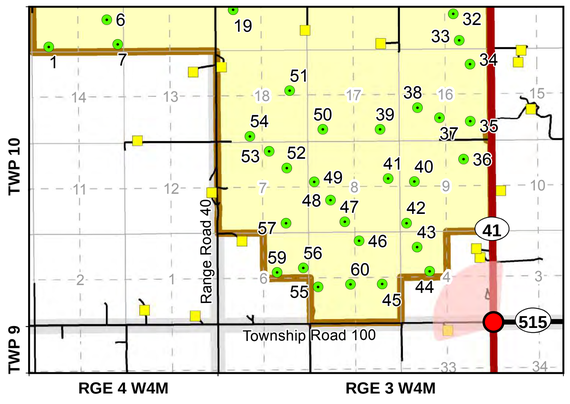
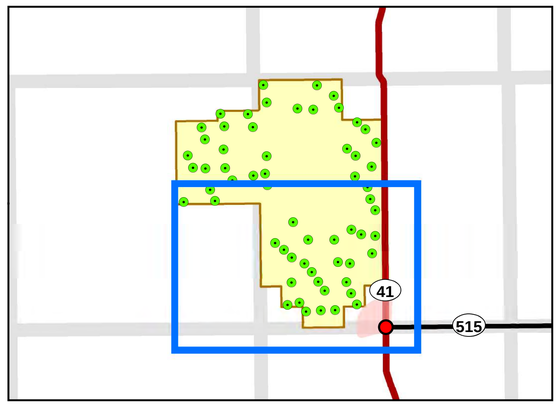


Legend:
- Photo Location
- Panorama Field of View (approximate)
- Project Lands
- Proposed Turbine Location
- Residence
- Major Highway
- Minor Highway
- Road
- Township Line
- Section Line
- Quarter-section Line



Before

After

Title: **Photomontage: Location 6 (V136)**

Client: **Cypress Wind Project**

CYPRESS wind project

EDF energies nouvelles

Datum: NAD 83
Projection: UTM Zone 12N
Scale: N.T.S.

Date: 2017-11-08
Version: 1

Prepared By: WSP Canada Inc.
Author: S. Schnick
Reviewed: A. Louro
Approved: R. Istchenko

Notes:
Photographs taken with Canon ESO 5D Mk II camera and Canon EF24-70mm f/2.8L lens set at 50 mm. Panoramic view compiled from multiple individual photographs. Photomontage simulated using Vestas V136 4.2 MW turbine with rotor diameter of 136 m and hub height of 82 m using 56 turbine locations (Layout Lv08).

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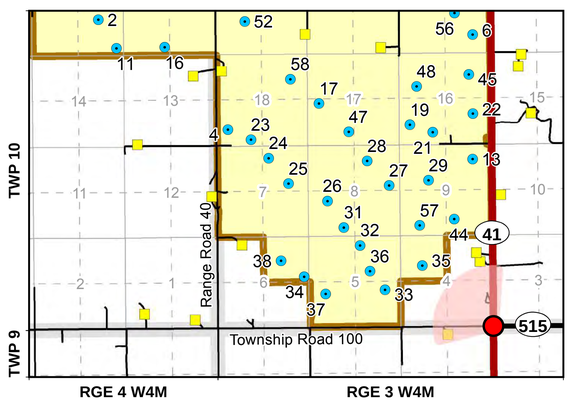
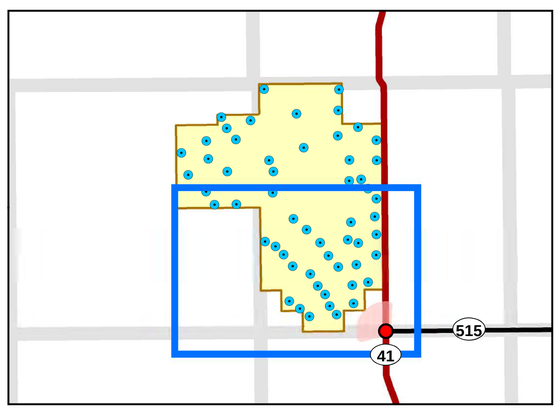


Legend:
- Photo Location
- Panorama Field of View (approximate)
- Project Lands
- Proposed Turbine Location
- Residence
- Major Highway
- Minor Highway
- Road
- Township Line
- Section Line
- Quarter-section Line



Before

After

Title: **Photomontage: Location 7 (G132)**

Client: **Cypress Wind Project**

CYPRESS wind project

EDF energies nouvelles

Datum: NAD 83
Projection: UTM Zone 12N
Scale: N.T.S.

Date: 2017-11-08
Version: 1

Prepared By: WSP Canada Inc.
Author: S. Schnick
Reviewed: A. Louro
Approved: R. Istchenko

Notes:
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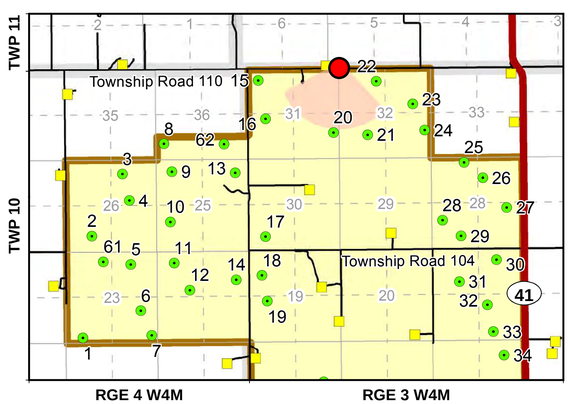
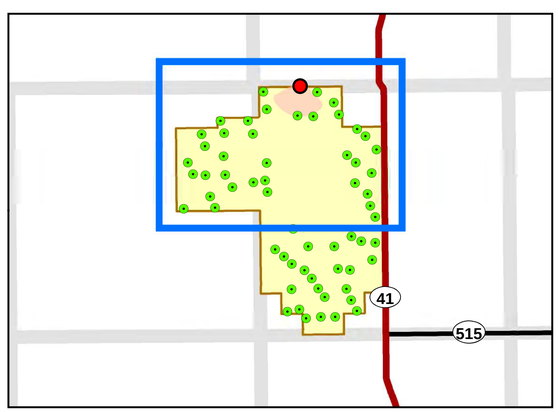


Legend:
- Photo Location
- Panorama Field of View (approximate)
- Project Lands
- Proposed Turbine Location
- Residence
- Major Highway
- Road
- Township Line
- Section Line
- Quarter-section Line



Before

After

Title: **Photomontage: Location 7 (V136)**

Client: **Cypress Wind Project**

CYPRESS wind project

EDF energies nouvelles

Datum: NAD 83
Projection: UTM Zone 12N
Scale: N.T.S.

Date: 2017-11-08
Version: 1

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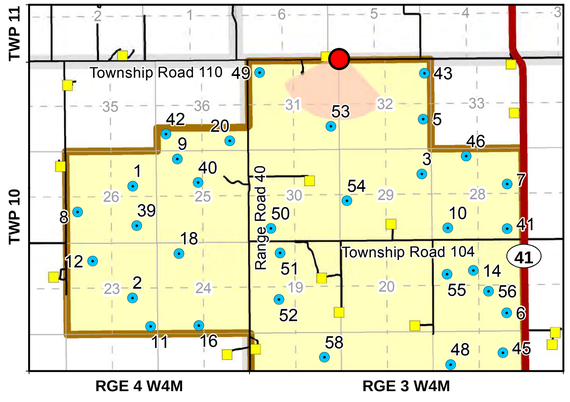

Legend:
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- Project Lands
- Proposed Turbine Location
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- Section Line
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