



## GRIZZLY BEAR CREEK | Wind Power Project

January 2021 • Newsletter

### INTRODUCTION

Wild Run L.P. through its general partner, Enel Alberta Wind Inc., is developing the Grizzly Bear Creek Wind Power Project (the Project) located in the counties of Minburn and Vermilion River. You are receiving this newsletter because you live or own land near the Project. Enel Alberta Wind Inc. is a subsidiary of Enel Green Power North America, Inc. (EGP).

EGP greatly values the relationship with the community, and we are committed to engaging and consulting with all affected stakeholders. This newsletter provides up-to-date information on this Project, and it gives us the opportunity to seek your feedback.

#### IN THIS NEWSLETTER, YOU WILL FIND:

- Project Status
- Anticipated Project Schedule
- Project and Layout Update
- Local Benefits
- Contact Information

#### INSERT:

- Proposed Project Map
- Shadow Flicker Results
- Noise Contour
- Visual Simulations



### PROJECT BACKGROUND AND OVERVIEW

The Project was previously owned and developed by E.ON Climate and Renewables Canada Inc. In May of 2016 the Project was fully permitted by the Alberta Utilities Commission (AUC), specifications at the time of the approvals were for 50 2.4 MW wind turbines with a total capacity of 120 MW.

EGP acquired the Project from E.ON in 2019 and proposes to make amendments to the Project layout to increase the overall project capacity. The increase in capacity can be achieved with a reduction in the number of wind turbines. This will also reduce the length of access roads and the electrical collection system.

The Project involves the construction of up to 36 wind turbines (based on 41 candidate turbine locations), an electrical collection system, access roads, three permanent meteorological towers and a substation. The turbines will be connected through collector lines and that connect at the substation. The Project will also require temporary laydown areas during construction. Since the last Project newsletter issued in June of 2020, new turbine technology is being assessed and as such some adjustments to the layout have been made. We will be seeking AUC approval for the amendments to the layout.

This newsletter includes a map of the amended Project layout as a separate attachment.

The table below compares the wind turbine models from the 2016 layout to the proposed 2021 layout.

	2016 Layout	2021 Layout
Turbine type	Nordex N117/2400	Six turbine models under consideration
Number of turbines	50	Up to 36
Rated capacity	2.4 MW	Up to 5.7 MW
Rotor Diameter	116.8m	Up to 165m
Total height	149.4m	Up to 203m
Tower Hub height	91m	Up to 120m
Total Project maximum output to the Alberta Grid	120 MW	Approximately 154 MW

Table 1: Comparison of the turbine type and layouts from to January 2021

### TURBINE AND LAYOUT CHANGES

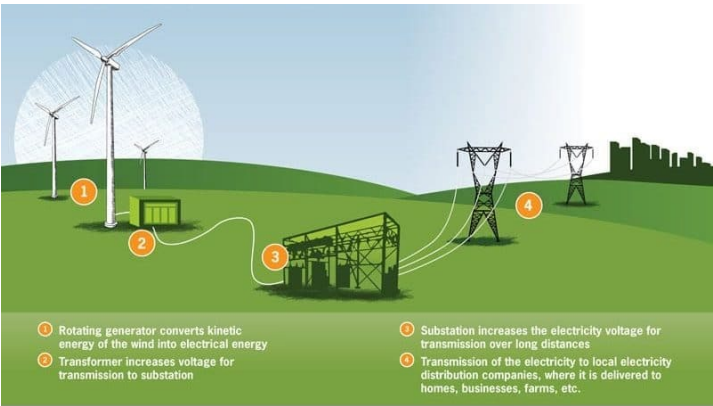
Wind turbine technology is rapidly changing and the wind turbine model which was proposed in 2016 is no longer available. In order to improve the financial competitiveness of the Project, it is now intended to use fewer wind turbines but with a higher rated capacity. The overall export capacity to the Alberta Grid has also increased from 120 MW to approximately 154 MW, but with a reduction in the overall project footprint.

Six wind turbine models are under consideration, that include turbine capacities ranging between approximately 4.2 MW and 5.7 MW. The maximum metrics of the turbine models under consideration are outlined in the Table 1, above. Some alternate turbine locations have been included to ensure optionality for detailed engineering. Stakeholders will be notified of the final model selection and turbine locations once determined.

The overall layout has been amended for the new turbine models and includes minor adjustment to turbine locations and infrastructure (such as access roads and collector lines).

Careful consideration has been given throughout the layout redesign process of environmental impacts as well as noise, shadow flicker and visual impacts. The impact assessment results consider potential impacts from all 41 candidate turbine locations. EGP will continue to optimize infrastructure locations with consideration of environmental, noise and shadow flicker impacts.

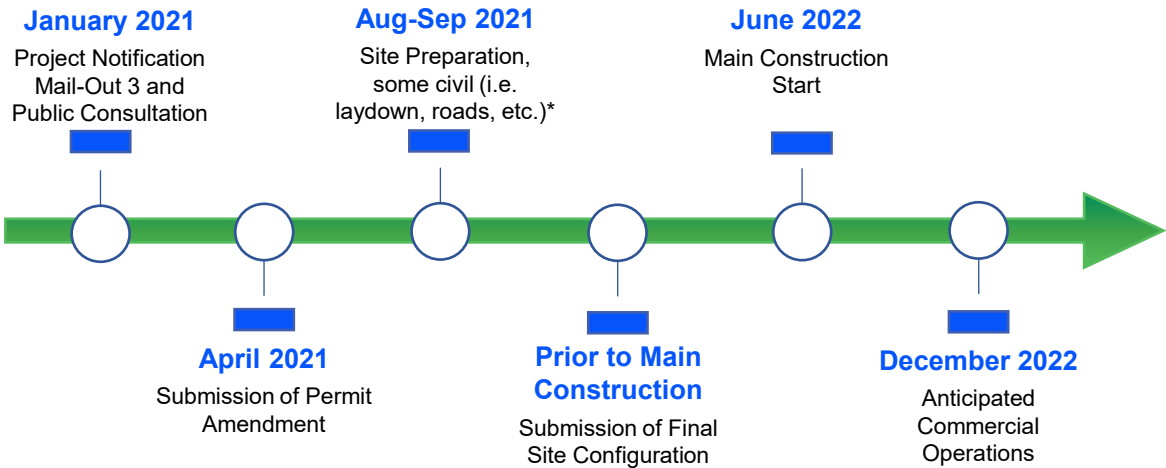
A map showing the amendments to the layout and assessment results is provided in a separate attachment.



Canadian Wind Energy Association: <https://canwea.ca/wind-facts/why-wind-works>

# ANTICIPATED PROJECT SCHEDULE

Schedule is subject to change



\* This will only apply to infrastructure approved in 2016 and does not apply to any amended infrastructure. Further consultation will be undertaken prior to the commencement of any works.

## DECOMMISSIONING AND RECLAMATION

The Conservation and Reclamation Directive (the Directive) came into effect for renewable energy operations in September 2018. At the end of the Project’s operational life, the wind farm and ancillary components will be decommissioned and reclaimed in accordance with regulatory requirements. Wild Run L.P. commits to satisfying the requirements stated within the Directive and moreover, will follow applicable criteria, standards and best management practices when undertaking the decommissioning and reclamation works. Landowners will be engaged prior to the commencement of any decommissioning and reclamation works on their lands.



## COMMUNITY BENEFITS

We value the long-term benefits of working with the local community. The surrounding community will benefit from the following:

- Employment opportunities during construction
- Permanent employment opportunities during operations
- Contracting opportunities for local businesses
- Royalties for landowners
- Tax revenue for the counties of Minburn and Vermilion River

These benefits will enrich the community throughout the 20-plus years of the Project’s operational life.

## Environmental Studies

Much the same as other forms of energy or resource development in Alberta, wind power projects have potential to result in impacts to environmental and cultural resources, including but not limited to impacts to wildlife, vegetation, water and soils. The Project has completed the required studies and is undertaking mitigation planning to identify and minimize potential impacts and will comply with all commitments and conditions in its regulatory approvals.

## Noise Impact Assessment

In Alberta, energy facilities must comply with AUC Rule 012: Noise Control. This rule requires the cumulative assessment of noise emissions, including existing and proposed power projects, oil and gas facilities, and other energy-related facilities. Reverification of the baseline conditions included in the assessment is underway. Under Rule 012, the Project must demonstrate that noise levels do not exceed the permissible sound level at residences located within 1.5 kilometres (km) of the proposed facility boundary. The permissible sound level is based on the dwelling density and distance from heavily travelled roads or rail lines, in this case, Rule 012 stipulates that the minimum nighttime permissible sound level is 40 dBA. Modeling presented in the enclosed Project map indicates that 41 turbines can be accommodated on the site and be compliant with Rule 012. The final Project layout, including up to 36 turbines, will be fully compliant with the Rule 012 requirements. The Project map identifies residences within 1.5km of the Project boundary and the corresponding 40 dBA nighttime permissible sound level contour.

## Shadow Flicker Assessment

Shadow flicker can occur when the sun passes behind the rotor of a wind turbine and casts a moving shadow over a residence, where this shadow passes over a narrow opening, such as a window, the moving rotor can cause the light levels to 'flicker'. The shadow flicker effect can only be experienced inside buildings. The potential effects of shadow flicker have been modelled and considered throughout the layout redesign process for this Project. The results of the shadow flicker analysis are summarized on the enclosed Project Map.

## Visual Simulations

A series of visual simulations have been prepared; these are intended to demonstrate how the Project will appear in the landscape from a range of locations. The visual simulations are attached to this newsletter. The locations selected represent views of the project from north, south, east and west and are representative of the views that residents and local commuters in the area will experience.

### NEXT STEPS

We are committed to continued engagement with landowners and stakeholders. We will continue to engage with residents, landowners and occupants within 800m of the Project via one-on-one consultation. The consultation process will be documented and we will seek to address any questions or concerns you may have in relation to the Project.

If you would like to contact us directly, please use the information provided below.

## CONTACT INFORMATION

If you have any questions or concerns about this Project, please contact our consultation agents:

**Phone:** Christopher Poitras: 403-510-2341 or Michael Stafford: 403-808-5199

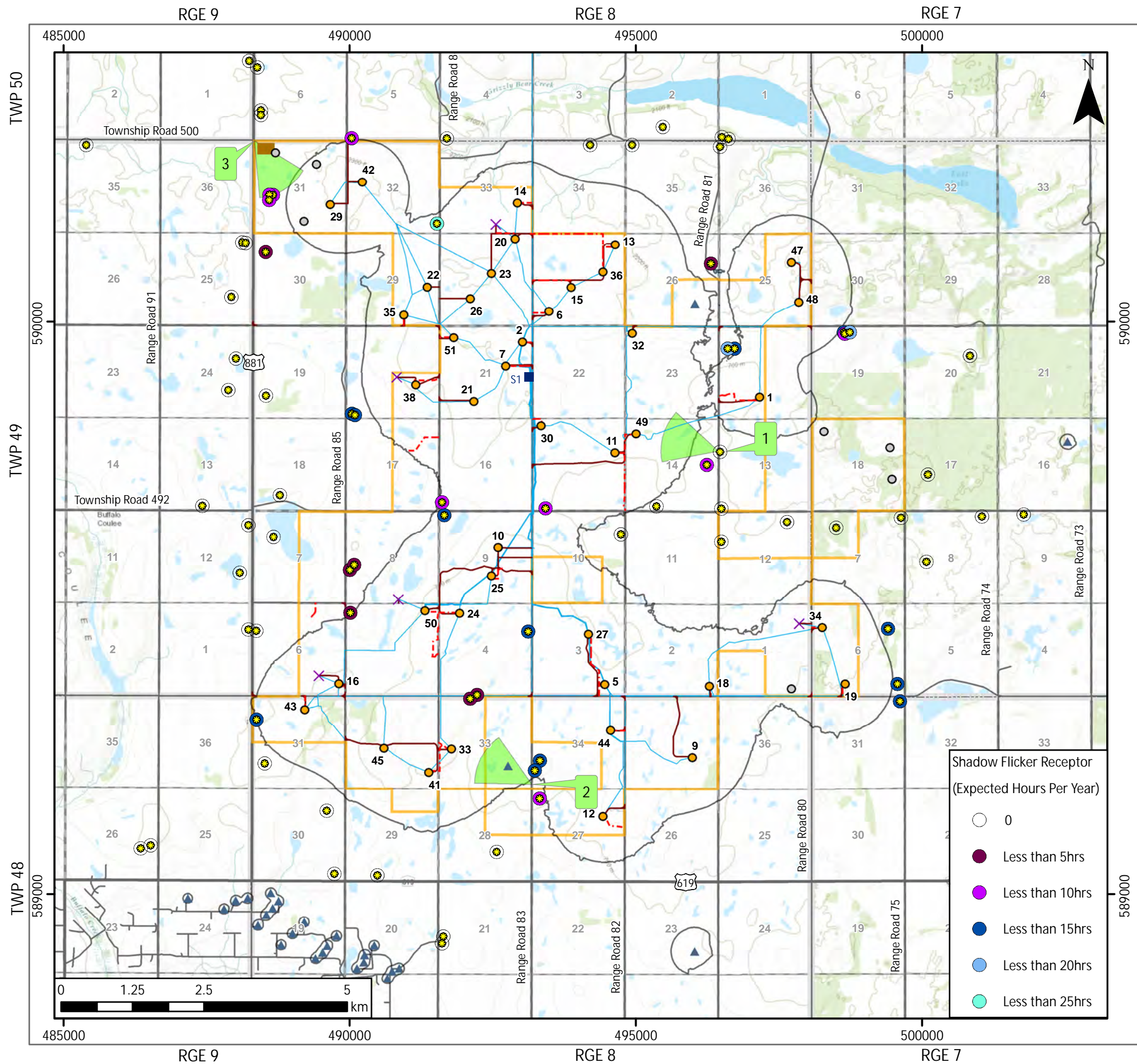
**Email:** [grizzlybearcreek@enel.com](mailto:grizzlybearcreek@enel.com)

For further information on the Project, please visit the Project website: [www.enelgreenpower.com/grizzly-bear-creek-wind-project](http://www.enelgreenpower.com/grizzly-bear-creek-wind-project)

For more information about our operations in North America, please visit: [www.enelgreenpower.com/country-north-america](http://www.enelgreenpower.com/country-north-america)

Privacy Commitment: Wild Run L.P. is committed to protecting your privacy. Collected personal information will be protected under the provincial Personal Information Protection Act. As part of the regulatory process for new generation projects, Wild Run L.P. may be required to provide your personal information to the AUC.





Project Name:Grizzly Bear Creek Wind Project

Document Title:Project Overview and Analysis Map

Scale:1:70,000@ ANSI B

Legend:

Project Components

● Proposed Turbine Location

○ Previously Approved Turbine Removed

■ Proposed Substation Location

✕ Proposed Met Mast Location(s)

■ Laydown Yard / O&M Building

— Proposed Collection Line

--- Previously Approved Access Road

— Proposed Access Road

Project Area

Other Components

● Residence

▲ Third Party Facility

— Highway

— Municipal Road

Township Line

Sectional Boundary

Waterbody

Project Analysis:

Viewpoint Location and Field of View

Cumulative Nighttime Permissible Sound Level Contour (40dBA)  
4.5m above ground level

Minburn

Mannville

Vermillion

Grizzly Bear Creek Wind Project

Not to scale

Notes:

Design Layout Version: A014R1

Residence Source: Tetra Tech (Receptors\_20210118)

Basemap Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Client:Wind Run L.P.

Drawing by:Green Cat Renewables Canada Corp.

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Author:NE

Checked by:JS

Approved by:CM

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