



Wheatland

w i n d p r o j e c t

SPRING 2021 • NEWSLETTER

Image shows generic wind turbines, not the Siemens 5.0 MW turbine.

INTRODUCTION

Wheatland Wind Project LP (WWLP) would like to thank you for your continued support and interest in the Wheatland Wind Project (WWP). We hope everyone has been staying safe and healthy throughout the COVID-19 pandemic. We greatly value our relationship with the local community, and we are committed to on-going engagement and consultation with all stakeholders.

You are receiving this newsletter because you live or own land near the WWP and we want to provide you with a project update. This newsletter provides details of the changes made to the WWP, including selecting a new turbine manufacturer and model and updating the project layout.

PROJECT UPDATES

Over the last few months, WWLP has been working through the impacts of the COVID-19 pandemic on the WWP. The COVID-19 pandemic has affected global supply chains, financial markets, construction practices, communities and general development activities. WWLP has been working hard to ensure that the WWP can be built safely over the next few years.

The WWP received an Alberta Utilities Commission (AUC) approval for the 122.4 MW wind power plant and a permit and licence for the substation and transmission facilities from the AUC in September 2018. Currently, a Letter of Enquiry (LOE) to the AUC is being prepared for the WWP to address changes to the project. We are changing the turbine manufacturer and model, reducing the number of turbines, renumbering the remaining turbines, and reducing the project boundary. Infrastructure associated with the removed turbines (i.e. collector lines, access and road upgrades) have been removed and the remaining infrastructure may be adjusted slightly to optimize the WWP's layout. WWLP is targeting to start construction of the WWP as early as Q3 2021, and the WWP is expected to be operating by Q4 2022 (please see the schedule on Page 2).

IN THIS NEWSLETTER, YOU WILL FIND INFORMATION ON:

- **TURBINE MODEL CHANGE**
- **UPDATED LAYOUT & SCHEDULE**
- **COMMUNITY DEVELOPMENT FUND**
- **LOCAL BENEFITS**
- **PUBLIC CONSULTATION**
- **UPDATED MAPS WITH NOISE
AND SHADOW FLICKER
STUDY RESULTS**



TURBINE UPDATE

We have chosen a new turbine manufacturer and model to improve the financial competitiveness of WWP and reduce the number of turbines required. WWP will be switching to the Siemens 5.0 MW turbines from the Senvion 3.4 MW turbines. The Siemens 5.0 MW turbines can operate up to 5.2 MW under certain conditions. The new Siemens turbines have a lower hub height, larger rotor diameter and larger turbine nameplate capacity than the previous Senvion turbines, thus fewer turbines are required for the WWP. The table below compares the previously approved turbine model to the new turbine model.

We have completed noise modeling assuming the loudest conditions and the WWP will comply with the *AUC Rule 012: Noise Control*. We have also provided the updated sound contours for the WWP using the Siemens 5.0 MW turbines (see Map inserts). Additional details relating to the results of noise modeling for each residence within 1.5 kilometres of the project are available upon request. While the Siemens turbines have a louder noise profile than the previous Senvion 3.4 MW turbines, the cumulative noise impact with the 24 Siemens turbines and our latest layout will be equal to or less than the noise impact of the previous layout using the 36 Senvion turbines.

COMPONENTS	PREVIOUS TURBINE	NEW TURBINE	CHANGES
	SENVION 3.4 MW	SIEMENS 5 MW	
Project Nameplate Capacity	122.4 MW	122.4 MW	No change
Turbine Capacity	3.4 MW	5.0-5.2 MW	Increase in turbine capacity
Number of Turbines	36	24	Reduced number of turbines
Tower Hub Height	110 m	95.5 m	Reduction in tower height
Rotor Diameter	140 m	145 m	Slight increase in rotor diameter
Number of Blades	3	3	No change
Rotation Speed	5.2-9.6 rpm	6-13 rpm	Increase in rotational speed
Cut-In Wind Speed*	3 m/s	3 m/s	No change
Cut-Out Wind Speed**	22 m/s	28 m/s	Increase in cut-out speed

Table 1: Comparison of Turbine Specifications

* Cut-in wind speed is the minimum wind speed where the turbine blades begin to rotate.
 **Cut-out speed is the speed that the turbine blades are brought to rest to avoid damage from high winds.

UPDATED WWP SCHEDULE

TIMELINE PROJECT MILESTONE

- Q2 2021** — • — Submit Letter of Enquiry (LOE) to the AUC
- Q2 2021** — • — Continue detailed engineering and procurement
- Q3 2021** — • — Anticipated AUC approval
- Q3 2021** — • — Earliest construction start
- Q4 2022** — • — Anticipated commercial operation

Schedule subject to change.



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LAYOUT UPDATE

Since the last newsletter in March 2018, the WWP layout has been modified in response to stakeholder feedback, environmental considerations, wind resource, and new turbine technology. As a result, the number of turbines and associated infrastructure required for the WWP have been reduced while the maximum generating capacity of the WWP remains the same at 122.4 MW. Twelve (12) turbines will be removed from the WWP by switching to the Siemens 5.0 MW turbines. The remaining twenty-four (24) turbines at the WWP will be renumbered.

We have also optimized the collection system and access routing to minimize environmental and land use impacts. Some infrastructure (i.e. access roads and collector lines) may shift slightly from their previous location to better accommodate environmental constraints. The updated project layout with a shadow flicker assessment is shown in the inserts. The visual impact of the project is expected to be less than previously shown visual simulations. We will be updating the visual simulations with our latest layout and turbine technology shortly. These visual simulations will be posted on the WWP website: www.wheatlandwind.com. Previous layouts, newsletters and visual simulations are also available on the project website.



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LOCAL BENEFITS

The WWP will benefit the local community in a variety of ways, including the following:

- Creating up to 200 construction jobs and 5-15 permanent local jobs in operations and maintenance
- Contract opportunities during construction in excavation and civil works, aggregate supply, etc.
- Contract opportunities for local businesses in snow clearing, road maintenance, fencing and reclamation etc.
- Increased local spending on goods and services during the development, construction, and operational phases
- Increasing County tax revenues
- Providing additional revenue streams for participating landowner via lease and royalty payments
- Provide funding for the surrounding community through a Community Development Fund

COMMUNITY DEVELOPMENT FUND

WWLP will provide the community with a funding commitment of up to \$25,000 each year upon the project becoming operational. We are always seeking opportunities to support the community and this funding will be used to provide sponsorship of local initiatives and projects. WWLP will seek input from community members on funding decisions. More details on this community development fund will be provided in future updates.

If you have any inquiries regarding the Community Development Fund, or if you have funding opportunities that you would like to suggest, please contact WWLP via the contact information at the end of this newsletter.

PUBLIC CONSULTATION & PROVIDING YOUR INPUT

WWP has been designed to minimize potential negative effects on the environment and the community. WWLP will continue to consult with local landowners and stakeholders in a way that respects community members' needs. We will continue to engage occupants, residents and landowners within 800 metres of the WWP to gather input through one-on-one consultation. If you live beyond 800 metres from the WWP and would like to request a one-on-one consultation, please contact us.

During the one-on-one consultation process, we will document the information you provide and attempt to address the questions or concerns you may have about the WWP. We would love to hear from you. Our contact information is provided below.



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CONTACT US

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For more information about Wheatland Wind Project LP and the project, please visit: www.wheatlandwind.com

For additional information about the project or to arrange one-on-one consultation, please contact our consultation agent:

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Privacy Commitment: WWLP 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, WWLP may be required to provide your personal information to the Alberta Utilities Commission (AUC). For more information about how WWLP protects your personal information, visit our website at www.wheatlandwind.com or contact us directly via email.

