



Fox Meadows Wind Project

Newsletter: Summer 2023

ABO Wind Canada Ltd. (ABO Wind) would like to thank all those that attended the March 2023 Open House for our Fox Meadows Wind Project (Fox Meadows / the Project). The event, held in the town of Edgerton just north of the project boundary, had an excellent turnout and involved healthy discussions about our 165 MW wind and battery storage project proposed in the Municipal Districts of Wainwright and Provost. The Project area was selected due to favourable wind speeds, land topography, available grid capacity and supportive landowners. A meteorological tower was erected in the summer of 2022 to confirm the wind resource in the region.

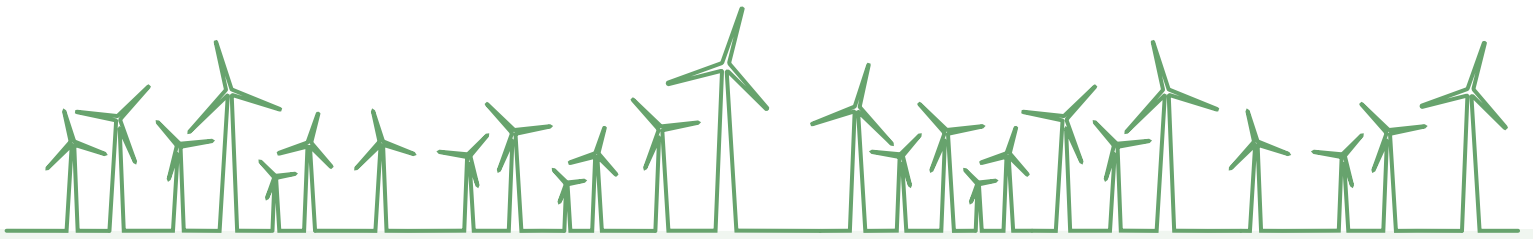
The Project

We have recently formed Fox Meadows Wind Inc. (FMWI) a subsidiary 100% owned by ABO Wind AG*, which will take ownership of the Project. Going forward, FMWI, will be the public facing entity for the Project and will be referenced in this and future documents. The Project is located on privately-owned land between the Town of Provost and the Village of Edgerton and consists of up to 25 turbines. The Project layout design is guided by input from stakeholders, technical experts, the consideration of environmental constraints and municipal setbacks. In addition to the turbines and battery, the Project will include access roads, a transmission line, underground collector lines/system, a substation, and a meteorological tower.

Not only will Fox Meadows facilitate the transition toward a lower carbon future, but it will also bring approximately 150 to 200 jobs to the region during the construction period and an estimated \$70 million in goods and services contracts to Alberta. Combined with the significant tax revenue going to both Municipal Districts, this renewable energy Project will be a sustainable source of revenue for its estimated 30-year life.

*ABO Wind AG is the parent company for ABO Wind Canada Ltd. and is based in Germany

**ABO
WIND**



Estimated Number of Turbines **25**



Nameplate Capacity of Project: **165 MW**

Nameplate Capacity of each turbine: **6.2 to 7.2**



Estimated annual amount of renewable energy produced: enough for **~85,000 homes**



Estimated Hub Height of turbines: **100 - 120 metres**



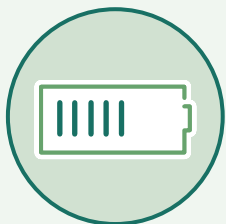
How much CO2 will it displace over the life of the project: **~9.5 million tonnes**



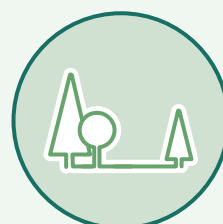
Estimated blade length: **80 - 90 metres**



What is the size of the Project Boundary: **~ 8800 acres**



Estimated size of battery: **70 MW/216 MW** hours on 6 acres of land



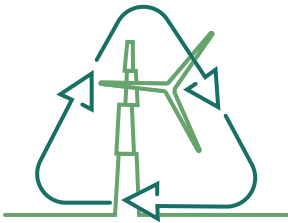
What is the Project Footprint (disturbed land): **~500 acres**

*Please note that the current layout designs utilize the Siemens Gamesa SG-170 6.6 wind turbine. The turbine model is subject to change based on the timing of approval and supply chain.

Frequently Asked Questions (FAQs) from the Open House

We understand that not all interested parties were able to attend the open house and that some attendees may not have been able to speak to each technical expert. Based on feedback forms and stakeholder input, we have compiled a list of the FAQs. If you have any follow-up questions, please contact FMWI directly for additional information.

1. How will the project be decommissioned? What is recycled?



The main components of a wind turbine that can be recycled, repurposed, or salvaged include: steel tower sections, steel reinforcement, electrical equipment and cables, precious metals, and concrete. Other materials or pieces of equipment that cannot be recycled, repurposed, or salvaged will be disposed of according to local/provincial regulations. Two of the largest turbine manufacturers have recently created the first set of turbine blades that are fully recyclable. The use of these blades will be evaluated for this project. The value of the recycled materials can offset as much as 70% of the decommissioning costs.

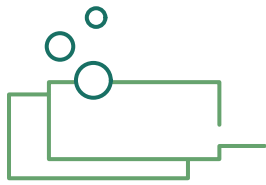
Source: Decommissioning Plan and Reclamation Cost Estimate for the North Bend Wind Project Hyde and Huges County, South Dakota; Tetra Tech, August 2021

2. What is the impact of turbines on birds including during migratory periods?



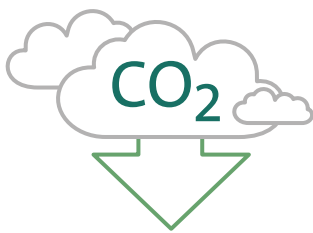
The impact on birds by the Project is studied by Maskwa Environmental Consulting Ltd. (Maskwa Environmental). Bird migration studies to date have shown a healthy population of migrating birds within and surrounding the Project area. Biologists from Alberta Environment and Protected Areas (AEPA) will review the results of these bird surveys and will determine if acceptable and if the impacts can be mitigated. ABO Wind is developing a comprehensive environmental protection plan, which is inclusive of operational mitigation to minimize disturbance to birds and other wildlife and wildlife habitat in the Project area. ABO Wind will work with AEPA and will complete a minimum of 3 years of post-construction bird mortality monitoring.

3. Is the project subsidized by the government?



ABO Wind AG is funding all the costs for project development. Once the Project is ready for construction, ABO Wind AG would likely work with banks to secure project financing. We have good relationships with reputable Canadian and European banks. Fox Meadows is viable without government subsidy or tax credits, however if tax credits or subsidies become available prior to the time of construction, then we will assess the eligibility and could utilize these available incentives, similar to other industries in Canada.

4. Is the Project Green?



Results show that in research that considered ~3000 life cycle assessment studies on utility-scale electricity generation, wind energy produces significantly less grams of CO2 per kilowatt hour than fossil fuels. When taking into account the extracting of resources, manufacturing, operations and decommissioning of projects coal produces almost 22 times as much CO2 (greenhouse gas) than a wind and battery project. Natural gas produces more than 10.5 times as much.

Source: NREL's Life Cycle Greenhouse Gas Emissions from Electricity Generation: Update; September 2021

5. Does low frequency noise (LFN) or infrasound from turbines impact human health?

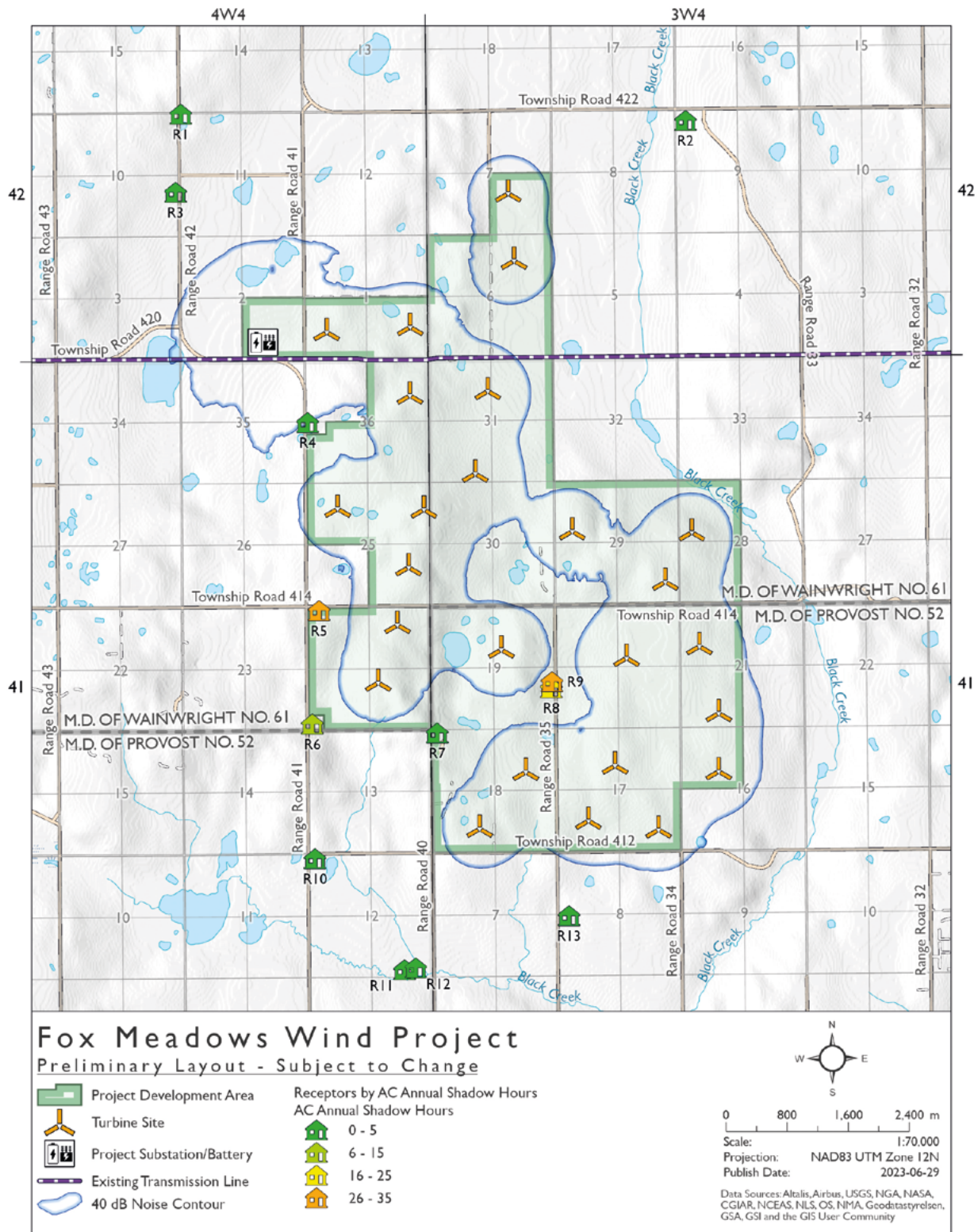


There are over 75,000 operational wind turbines in Canada and United States and there are now over 100 peer-reviewed published scientific articles on the potential for health impacts living in proximity to wind turbines. Although audible sound, infrasound and low frequency noise (LFN) are emitted from wind turbines it is not at a level that causes health impacts, headaches, nausea, sleep problems and tinnitus. LFN or infrasound are a common occurrence produced from wind itself and other human sources including road traffic, refrigerators, air conditioners, farm machinery, and airplanes. Alberta's AUC Rule 012 and the FMWI setback distances from homes will ensure the protection of public health and safety from wind turbine sound.

Additional information can be found at the Health Canada Wind Turbine Noise Study website: <https://www.canada.ca/en/health-canada/services/health-risks-safety/radiation/everyday-things-emit-radiation/wind-turbine-noise/wind-turbine-noise-health-study-summary-results.html>

Noise and Shadow Flicker

The Project will have sound-generating infrastructure and can produce shadow flicker when the sun passes behind a turbine's moving blades. Using the Siemens Gamesa 6.6 MW wind turbine, and including the batteries for noise, the following figure displays both the most conservative scenario for noise and annual hours of shadow flicker:

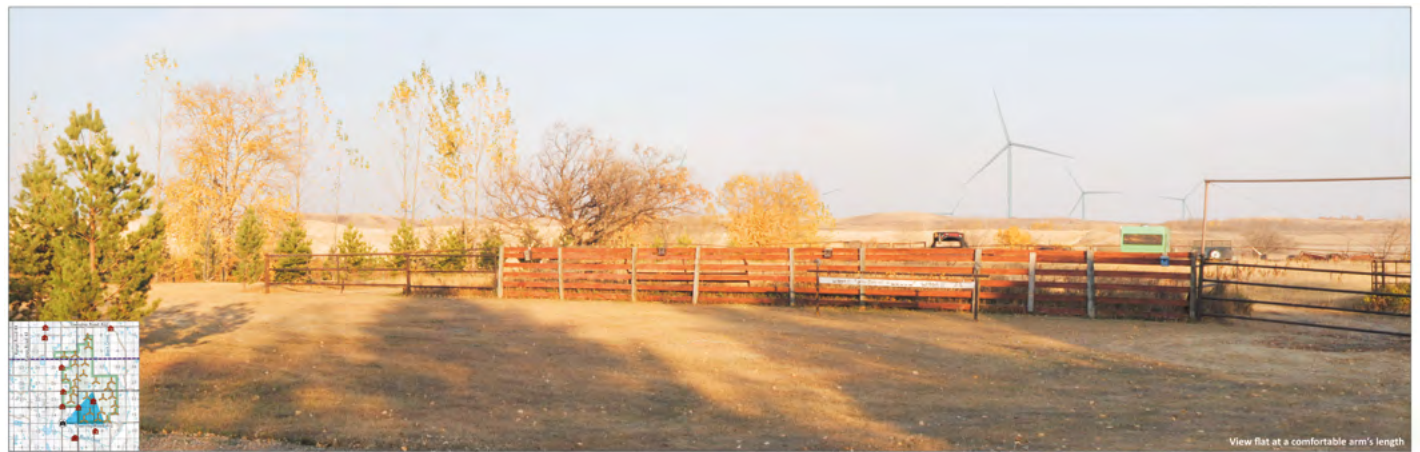


Visual Simulations

FMWI contracted third-party experts, Green Cat Renewables, to create the following visual simulations, which shows how the Project will appear on the landscape from 6 viewpoints:



Viewpoint 02



Viewpoint 03



Viewpoint 04

Visual Simulations



Viewpoint Location:	0116164 N0521048	Field of View:	90° (90°)	Camera:	None (0000)
Viewpoint Elevation:	529'	Physical Distance:	811 x 207m	Units:	Feet
View Direction:	90°	Page size:	811 x 207mm	Camera height:	5.8 AGL
Nearest Turbine:	1.470mi (Out in view)	Printed image size:	811 x 207mm	Date and time:	10/20/2022 14:42
	1.526mi (In view)				

View flat at a comfortable arm's length

Viewpoint 05



Viewpoint Location:	0116274 N0521032	Field of View:	90° (90°)	Camera:	None (0000)
Viewpoint Elevation:	516'	Physical Distance:	811 x 207m	Units:	Feet
View Direction:	90°	Page size:	811 x 207mm	Camera height:	5.8 AGL
Nearest Turbine:	2.76mi	Printed image size:	811 x 207mm	Date and time:	10/20/2022 15:07

View flat at a comfortable arm's length

Viewpoint 06



Viewpoint Location:	0116300 N0521032	Field of View:	90° (90°)	Camera:	None (0000)
Viewpoint Elevation:	516'	Physical Distance:	811 x 207m	Units:	Feet
View Direction:	90°	Page size:	811 x 207mm	Camera height:	5.8 AGL
Nearest WTG:	1.54mi	Printed image size:	811 x 207mm	Date and time:	10/20/2022 15:49
Distance to Point:	1.58mi				

View flat at a comfortable arm's length

Viewpoint 07

Environmental and Regulatory Process

Maskwa Environmental completed comprehensive environmental assessments for Fox Meadows. The information gathered from the environmental field program was included in the Renewable Energy Submission Report and submitted to AEPA in Spring of 2023. AEPA will issue a Renewable Energy Referral Letter that will outline an overall Project risk ranking. FWMI is required to commit to construction and operational mitigation stated by AEPA based on the risk assessment. This mitigation is expected to reduce impact to wildlife and wildlife habitat. Once the AEPA Referral Report is issued an application is made to the AUC under Rule 007 – Application – Wind Power Plants 10 Megawatts or greater – urban and rural. FWMI expects to submit the application in Q4, 2023. The Public will be informed of the Application submission.

In the Community

FMWI commits to growing our relationship with the communities where we operate, as it is part of our fundamental values that these communities benefit from our presence. As we learn more about each community, we discover initiatives that would benefit from our contributions. We are proud to be a sponsor of both Edgerton’s ‘Bullarama & Sports Days’ and the ‘Provost Public School Panther Athletic Program’. Once operations commence, FMWI will establish a Community Fund for the life of the Project in both the MD of Provost and MD of Wainwright to support local initiatives.

Project Contact and Consultation

If you have questions about the Regulatory and Consultation Process, you can contact the AUC at 403-592-4500 or find information at: www.auc.ab.ca

Project information can be found at www.foxmeadowswind.com.



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Schedule:

FWMI has updated the preliminary projected timeline for the Project. These changes are shown in the table below and are subject to change.

Activity	Timeline
Environmental Field Studies	Spring 2022 to Fall 2022
Public Notification and Project Information Package 1	Q2 2022
Open House 1	Q3 2022
Public Notification and Project Information Package 2	Q4 2022
Open House 2	Q1 2023
Submission of Renewable Energy Project Submission Report to Alberta Environment and Parks (AEPA)	Q1 2023
Public Notification and Project Information Package 3	Q3 2023
AUC Application Submission	Q4 2023
AUC Review and Approval	Q4 2023 – Q1 2024
Municipal Development Application(s)	Q2 2024
Start of Construction	Q3 2024
Commencement of Operation	Q4 2026

