

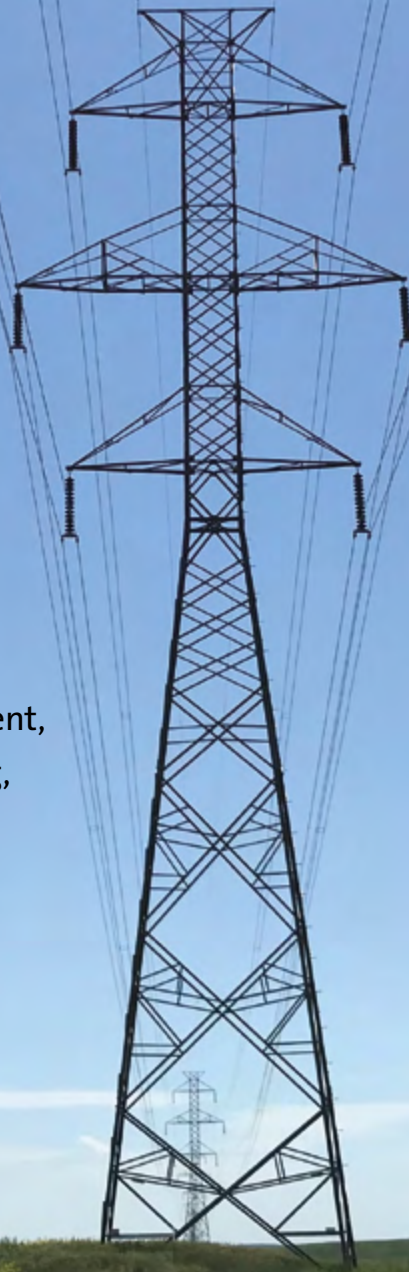
# Buffalo Plains Wind Farm

## Clean Energy for Alberta

### November 2019

ABO Wind is proposing the Buffalo Plains wind farm project (the project) on 24,000 acres of privately owned farmland near Lomond, Alberta.

ABO Wind would like to keep you informed about the progress of the project through this brochure. This information brochure is an update to the one you may have received in March and which is available on the project website at [www.buffaloplainswindfarm.com](http://www.buffaloplainswindfarm.com). In this brochure you will find the latest information about the project development, the current status of the project planning, and the next steps in the process.





## Local Benefits

- Creation of up to 300 construction jobs during construction and 10 to 15 permanent local jobs
- Supply chain opportunities for local businesses and companies
- Contract opportunities during construction and operation including excavation, civil works, snow removal, road maintenance, fencing, and reclamation
- Increased local spending on goods and services in the neighboring areas
- Road use agreements and upgrades to local road infrastructure
- Income and property tax payments made by Buffalo Plains Wind Farm will generate significant tax revenues for the county and provincial government.
- Property taxes are expected to amount to more than three million CAD per year.
- The proposed wind farm will generate enough power to supply a city of more than 100,000 homes with clean energy.
- A Community Vibrancy Fund will be setup prior to the Commercial Operations Date and used to provide and update facilities in the community.

## Project Updates

The project was originally proposed to be as large as 400-500 megawatts (MW), comprising up to 120 total towers, but is now being planned to be around 400 MW in total generation, with the preliminary layout containing 87 total turbines.

The project now has roughly 24,000 acres of privately owned land under long-term option agreement, with eight landowners signed up with the project.

Wildlife surveys were conducted from the spring to fall of 2019 and are now complete. A summary report with all of the results will be submitted soon to Government wildlife biologists at Alberta Environment and Parks.

Visual simulations, noise modeling, and a shadow flicker assessment for the preliminary project layout have now all been completed, and the preliminary results will be presented to the public at the upcoming Open House. The Open House materials will also be posted to the project website after the event.

**Wind Turbines:** The Enercon E-160 (4.6 MW) turbine model is being used for preliminary modeling and assessments for the project. This turbine has a hub height of 120 meters and a

rotor diameter of 160 meters. Different turbine models are still being evaluated and a final model has not yet been selected for AUC submission. If any aspects of the design change, including turbine model, the public will be notified and consulted.

**Collector System:** The project will utilize a medium voltage collector system consisting of underground cables that transmit the electricity from the turbines to the project substation.

**Access Roads:** A road use agreement will be negotiated with Vulcan County to upgrade and utilize existing roads where necessary. Terms of the agreement require that the roads remain in the same, or improved, condition after the completion of the project. Outside of County roads, about 56 kilometers of new roads are also expected to be built on the project site for turbine access.

**Other Infrastructure:** The project will include a substation to step the voltage up from the collector system voltage to the transmission level voltage. The project will also require an Operations and Maintenance building for the local maintenance staff, which will be located close to the substation.

**Interconnection:** The project intends to construct a 12-15 kilometers high-voltage transmission line to connect the project substation to the Alberta grid. The project substation is planned to connect to the 356S Milo substation, located north of Lomond in the grazing leases.

**Meteorological Tower:** Two temporary towers are planned for the development of the project to measure wind speed and direction. After construction, the two towers will be removed and one permanent met tower will be installed to collect long term forecasting data, in compliance with the Alberta Electric System Operator system regulations.

## Ongoing Development Work

### Studies completed

- Wildlife: Birds, bats and sensitive species
- Vegetation: Habitat mapping and endangered species
- Wetlands: Mapping and classification
- Noise: Impact assessment
- Shadow Flicker: Impact assessment

### Next steps

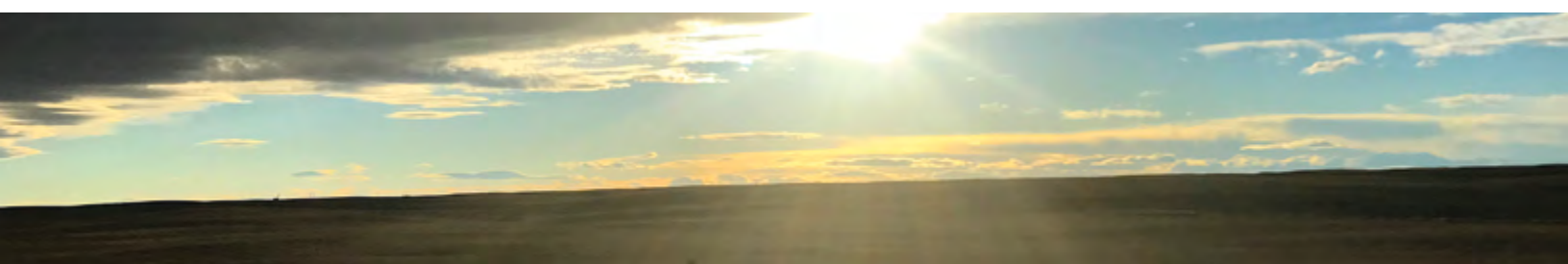
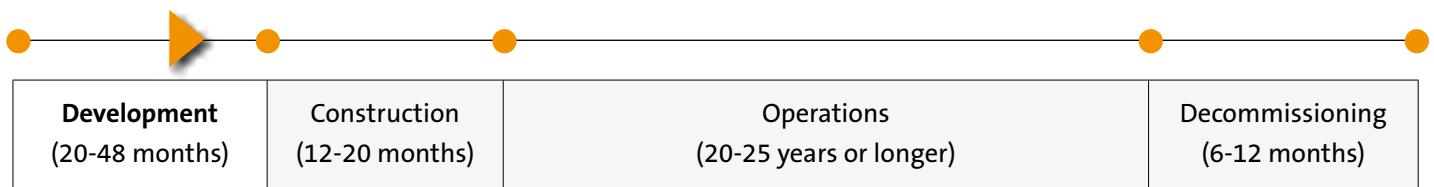
- Historical Resource: Archaeological
- Alberta Environment and Parks Review
- Nav Canada & Transport Canada Assessment
- Detailed Collector System Design
- Substation and Operations and Maintenance building design
- Further consultation and engagement on project questions and concerns

## Timeline

Spring 2018	Land secured with original developer
Summer	Land purchased by ABO Wind & Rocky Mountain Power
September 2018	Stakeholder consultation begins
December 2018	Additional land secured (land base extended)
December 2018	First meteorological mast erected
Spring 2019	Environmental studies begin
March 27th 2019	First Open House
June 2019	Entered AESO Queue
Summer 2019	Rocky Mountain Power exits project partnership
November 28th 2019	Second Open House
December 2019	Second meteorological mast erected
Spring 2020	Anticipated AUC Application
Winter 2020	Anticipated AUC Approval
Summer 2021	Anticipated start of construction
Winter 2022	Target Target Commercial Operations Date (COD)
2047	Anticipated decommissioning and reclamation

Schedule is preliminary and is subject to change

## Project Schedule





## Public Consultation

We are committed to open and transparent consultation with all stakeholders. Last March, 80 people attended our first Open House in Lomond and lots of great questions were asked about the project. A lot of follow up occurred within the community and with local stakeholders. In-person meetings have been held to address stakeholders with outstanding concerns. As a result, noise modeling and a shadow flicker assessment have been completed in addition to visual simulations of the project.

Furthermore, to address questions about the specific project benefits to the community, a Community Vibrancy Fund has been proposed and will ensure value from the project is tied directly to specific initiatives proposed by the community. Finally, a detailed FAQ document with many other information resources about the project and wind farms in general, will be available at the next Open House and afterwards on the project website.

All stakeholder comments, questions and concerns are tracked in a database and will be submitted to the Alberta Utilities Commission (AUC) as part of a complete Power Plant application. To learn more about the AUC application and review process, please visit the AUC's website at [www.auc.ab.ca](http://www.auc.ab.ca).

## Why This Site?

ABO Wind came to Alberta looking to take part in the Renewable Electricity Program announced by the Government in 2015. Areas across the province were reviewed and evaluated. The area surrounding Lomond was selected as it is well suited for the development of wind energy due to its large, open agricultural land base, great wind resource, and nearby access to interconnection. Based on our assessments, it is a great location to harness the wind for energy. A meteorological (met) tower was erected in 2018 to confirm the estimated wind resource and in December a second met tower will be erected.

## Who is ABO Wind?

ABO Wind is a privately owned, German-based renewable energy company with projects in over 16 countries worldwide. It was founded in 1996 by two friends Jochen Ahn and Matthian Bockholt and has grown to be one of Europe's leading developers of renewable energy projects with over 1500 MW of installed capacity and annual investments in projects exceeding CAD \$450M. The company's business focuses on planning, financing, and managing wind farms, solar farms, biogas plants, and hybrid energy systems. ABO Wind employs over 550 people around the globe, including six staff based at the North American development office in Calgary.

---

## Meet the Team

For more information please visit our website at:  
[www.buffaloplainswindfarm.com](http://www.buffaloplainswindfarm.com)

Or you can contact us at:  
#210 3015 -12 Street NE Calgary, AB T2E 7J2  
Phone: (587)355-8727  
Email: [keaton.lever@abo-wind.com](mailto:keaton.lever@abo-wind.com)



Keaton Lever  
Project Manager  
ABO Wind

