

Buffalo Plains Wind Farm

Clean Energy for Your Region

ABO Wind and Rocky Mountain Power would like to keep you informed about the progress in planning our Buffalo Plains Wind Farm. In this updated brochure you will find the current status of the project. A previous version of this brochure was distributed with our info package in November of 2018.

The area surrounding Lomond is well suited for the development of wind energy. The large, open plains with great wind conditions make it a perfect spot to harness the wind. In December 2018, we erected this met mast which will measure the wind speeds and provide data to the developer.



Local Benefits



- Creation of up to 300 construction jobs during construction and 12-15 permanent local positions
- 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

About the Project

The project is in the preliminary community consultation stage of being developed and is expected to be between 400-500MW in size. The project is located north of Lomond, Alberta in Vulcan County. The project currently sits on approximately 23,000 acres of private cultivated land.

Buffalo Plains Wind Farm will seek sign off from all necessary entities including Vulcan County, Alberta Environment and Parks, and approval from Alberta Utilities Commission for the Project.

The proposed wind farm will generate enough to supply a city of 240,000 homes with clean energy. In addition, the wind farm will help Alberta to reduce emissions and creates new jobs.

Technical Details

Wind Turbines: The Project will include approximately 100-125 turbines. The wind turbines will have an expected blade tip height of 215 meters and a rotor diameter up to 170 meters.

Collector System: The project will utilize a medium voltage power collector system consisting wherever possible of underground cable that link the turbine to the substation.

Access Roads: The project will construct low profile roads for the access to the turbine units. The project may also require upgrades to existing county roads in the area.

Infrastructure: The project will include a substation to step the voltage up from the collector system to the transmission voltage. The project will also house an Operations and Maintenance building for the local maintenance staff.

Ongoing Development Work

Current Development Stage

Buffalo Plains is completing the following steps: public consultation, environmental impact assessments, wind resource assessments, layout optimization and preliminary project engineering.

Maskwa Environmental will serve as an environmental consultant and begin studies in March.

Studies to be completed

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

Timeline

Q3 2018	Stakeholder notification and consultation
Q1 2019	Environmental Studies (EIS)
March 27th	First Open House
Q2 2019	Enter AESO Connection Queue
Q3 2019	Enter into AESO REP
Q4 2019	Second Open House
Q1 2020	Enter AUC
Q2 2020	Award of Power Purchase Agreement
Q3 2020	AUC Approval
Q1 2021	Start of Construction
Q4 2021	Anticipated Commercial Operations Date

Schedule is preliminary and is subject to change

Project Schedule



Public Consultation



Buffalo Plains Wind Farm is committed to open and transparent development with local stakeholders. Currently we are in the process of consulting and notifying all stakeholders within two kilometers of our project boundary. Buffalo Plains will also notify and consult with government officials, industry, local businesses, local jurisdictions and will continue to be active in conversations throughout the course of the project.

A summary of all stakeholder comments will be included in the Alberta Utilities Commission (AUC) Power plant Application. To learn more about the AUC application and review process please contact the AUC by phone at 780-427-4903 or by email at consumer-relations@auc.ab.ca. You can access AUC's website at www.auc.ab.ca.

Buffalo Plains Wind Farm is developed in partnership between ABO Wind AG and Rocky Mountain Power (2006) Inc..

ABO Wind was founded in 1996 and is now one of Europe's leading developers of renewable energy projects with 1.5 GW of installed capacity. The company plans, finances, delivers, manages and maintains wind farms, photovoltaic facilities, biogas plants, and hybrid energy systems in 18 countries. Over 500 qualified staff are deployed across the globe, including a Canadian subsidiary in Calgary. The company's annual investments in realised projects exceed CAD \$450M.

Rocky Mountain Power (2006) Inc. (RMP) is a Calgary based independent sustainable energy developer with experience in energy storage, power generation and transmission development. RMP was the initial developer of the Montana Alberta Tie Line (MATL) and is currently focused on renewable generation and energy storage projects in Alberta and Saskatchewan.

Meet the Team

For more information please visit our website at: 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



Keaton Lever
Project Manager
ABO Wind



Jan van Egteren
President
Rocky Mountain Power

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