

Halkirk 2 Wind Project Update

Hello,

We're excited to announce that the Halkirk 2 Wind Project (H2) was approved by the Alberta Utilities Commission (AUC) on July 27, 2023 (Decision 27691-D01-2023). We've also finalized project details, as outlined in this newsletter, and intend on filing an update with the AUC in August with the intent of commencing preliminary construction activities in the fall.

Project Quick Facts

- Located on privately-owned land in Paintearth County in TWP 39 and 40 and RGE 14 and 15
- 139.5 MW generation capacity
- 31 Vestas V150-4.5™ wind turbines (58% reduction from 74 wind turbines in 2018)
- ~64-acre permanent project footprint (~43% reduction from the permanent project footprint approved in 2018)

Halkirk 2 Wind not impacted by Government of Alberta pause on approvals of new renewable projects

On August 3, the Government of Alberta announced a temporary pause on Alberta Utilities Commission (AUC) approvals of new renewable electricity generation projects in the province. The pause, effective until Feb. 29, 2024, also directs the AUC to examine and report on issues relating to land use, grid reliability and concerns from rural municipalities and landowners. For more information, visit auc.ab.ca.

The pause on approvals does not apply to renewable generation projects that have already received AUC approval and thus we do not expect the Halkirk 2 Wind project to be impacted.



Vestas V150-4.5 wind turbines

Wind Turbine Technology Selected

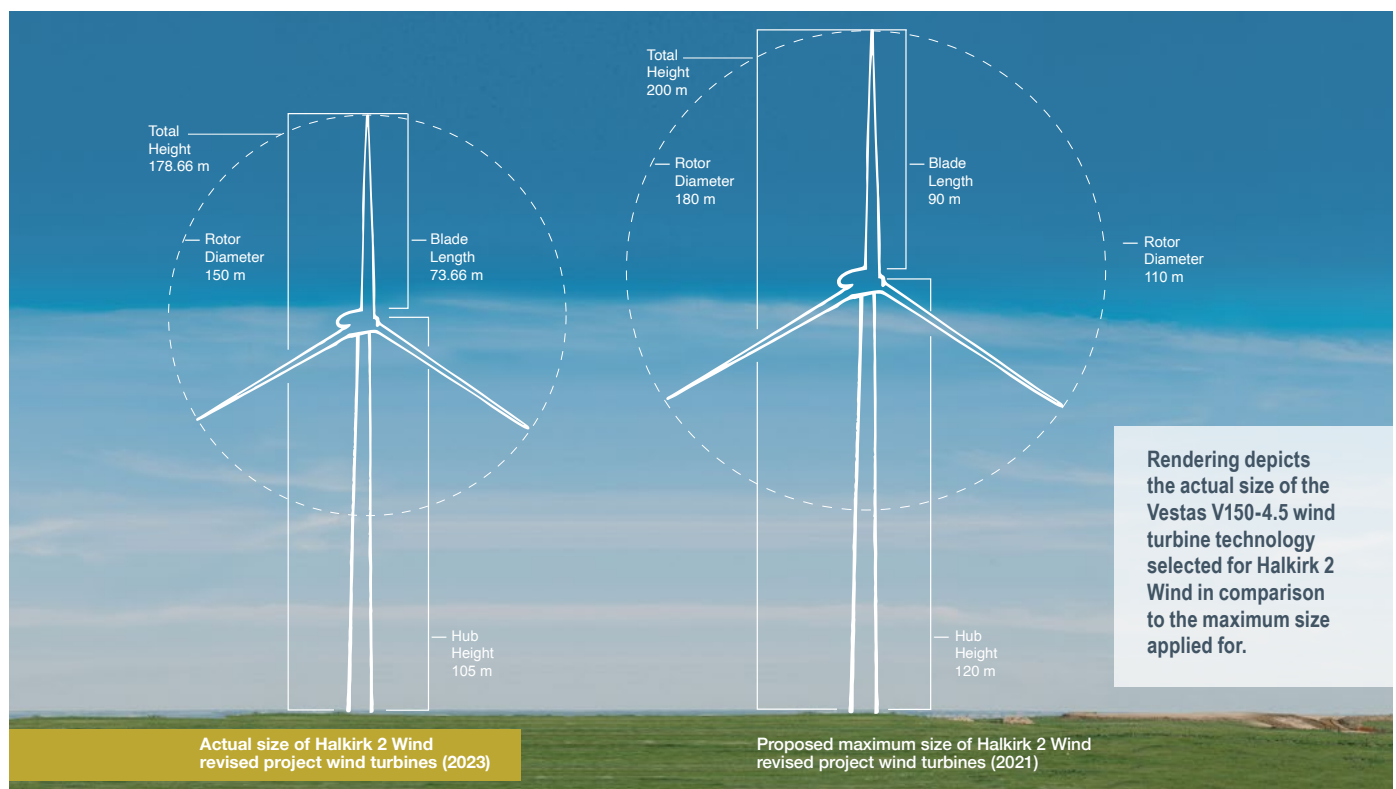
We've selected the Vestas V150-4.5 model wind turbine. Each of the 31 individual wind turbines will have a generating capacity of **4.5 megawatts (MW)** for a total installed generating capacity of **139.5 MW**.

Details about the turbine's physical characteristics are in the table below including how they compare to the maximum parameters approved by the AUC. All specifications meet or are below the approved limits.

The V150 platform is safely operating at sites all over the world. In Alberta, it's being utilized at Grizzly Bear Creek located in Minburn and Vermillion County and Lanfine Wind located in Special Area No. 3 near Oyen.



Turbine Specifications	Maximum proposed size applied for	Actual size	Difference
Hub height	120 m	105 m	-15 m
Rotor diameter	180 m	150 m	-30 m
Rotor swept area	25,447 m ²	17,046 m ²	-8,401 m ²
Total tip height	200 m	178.66 m	-21.34 m
Blade length	90 m	73.66 m	-16.34 m



Final Project Design Layout

We've made some refinements to the project layout (map enclosed) to optimize the project, reflect stakeholder feedback and the AUC's decision.

The refinements are:

- Removed four wind turbines (T-23, T-24, T-25 and T-34) resulting in a total of 31 wind turbine generators.
- Minor shifts in the locations of T-09 (~30-metres north) and T-32 (~30-metres east).
- A proposed location for the radar tower required for the Aircraft Detection Lighting System (ADLS) located on RR 151 in the SE corner of SE-11-40-15-W4M. The ~24-metre-high tower will be mounted with a radar unit to detect aircraft in the vicinity of the facility and turns on navigation obstruction lights only when aircraft are nearby. The ADLS will mitigate the impact of the required lighting on the community consistent with AUC direction.
- The addition of a communications tower at the project's Goldeye 620S Substation located on RR 151 in the SW corner of SW-12-40-15-W4M. The purpose of the 18-metre-high tower is for communications with ATCO's nearby Tinchebray Substation.
- No longer constructing a separate Operations & Maintenance (O&M) building within the project area. Instead, we will modify our existing O&M building located on Railway Avenue in the Village of Halkirk to accommodate operations and maintenance personnel for H2.

We expect to submit a Final Project Update (FPU) to the AUC in August confirming the equipment selected and outlining the changes to the layout described above. We will also submit evidence demonstrating three conditionally approved turbines (T-10, T-18 and T-27) will allow for the continued safe use of an aerodrome (CPE8) in the project area. The FPU will demonstrate the final design remains within *AUC Rule 007* requirements and the recent decision. We've also applied for the county development permits that are needed before construction can begin. The county's Municipal Planning Commission hosted a development permit review meeting on August 8.

Pending securing all necessary approvals, we're targeting preliminary construction activities to begin in Q4 2023. Work will focus on the construction of turbine access roads and approaches as well as preparing the temporary construction laydown area and substation area.

Noise and Shadow Flicker Update

WSP has remodeled the noise impact assessment (NIA) in accordance with *Alberta Utilities Commission (AUC) Rule 012* (AUC 2021), and the shadow flicker assessment was prepared in accordance with *AUC Rule 007* (AUC 2022). The modelling was based on the selected Vestas V150 technology and its specific size parameters as well as the minor changes (noted opposite) to the final design layout. The specific results will be submitted as part of our Final Project Update to the AUC in August.

The noise modelling concluded that the project remains compliant at all receptors. The elimination of four wind turbines (T-23, T-24, T-25 and T-34) resulted in a reduction in cumulative noise levels at some receptors in proximity to those proposed locations.

The 30-metre reduction in rotor diameter (down from 180-metres as modelled in the amendment application) results in a large reduction in potential shadow flicker at most receptors. There are no increases in potential shadow flicker predicted at any receptors from those previously modelled.

Updated Project Schedule

We've refined the anticipated timelines for construction milestones.

Activity	Timing ¹
Paintearth County Development Permits	Q3 2023
Target for construction to begin	Q4 2023
Temporary laydown construction	Q4 2023
Access road construction	Q4 2023 - Q2 2024
Turbine foundation construction	Q2 2024
Collector line installation	Q2 - Q3 2024
Goldeye substation construction	Q4 2023 - Q2 2024
Turbine delivery	Q3 2024
Turbine assembly	Q3 - Q4 2024
Commissioning	Q3 - Q4 2024
Commercial operations (COD)	Q4 2024

¹Anticipated schedule pending AUC approval of the Final Project Update and Paintearth County's approval of the Development Permits.

Welcome to the Halkirk 2 Wind Project Team

James Osness is Capital Power's Senior Project Manager for the Halkirk 2 Wind Project.

James is a P. Eng in Electrical Engineering with 27 years' experience in Alberta power generation. Most recently, James was the project manager responsible for overseeing the construction of Capital Power's first two solar facilities (Strathmore Solar and Clydesdale Solar) in Alberta. James grew up on a dairy farm in central Alberta and recently returned to his roots having moved back to his wife's family farm.

Wade McAllister has been a land agent for more than 20 years in central Alberta and has been with Access Land Services for the past 3.5 years.

Wade comes from a farming and ranching family. Wade is familiar with the typical agricultural practices in central Alberta and the construction of wind projects. Wade was on site during construction and site remediation of Capital Power's Whitla Wind facility in southern Alberta where he acted as a liaison between landowners, the community, Capital Power, and its contractors. Wade will be physically located within the project area throughout most of construction of H2. He's looking forward to meeting and getting to know the landowners and residents in the project area. In his spare time, he enjoys hunting, fishing, camping and working on old vehicles. Wade's contact information is listed below.

Thank you for your feedback and input on Halkirk Wind 2. We will share information throughout the construction period and operations of the facility and work to be an ongoing contributing member of the community.

Contact us

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Traffic Management and Emergency Response Plans

We anticipate that our prime contractor for the construction of the project will be selected before the end of August. Before construction begins, we will develop a site-specific Emergency Response Plan (ERP) and Traffic Management Plan (TMP) in consultation with local landowners, residents and local emergency responders.

Later this summer, we will share the draft ERP and TMP along with information on how to provide your feedback and ask questions. We appreciate your input in advance to ensure the project is constructed safely for all workers and residents, with the least impact possible.



A truck transports a 68-metre-long wind turbine blade during construction of Capital Power's Whitla Wind facility in the County of Forty Mile, AB. Capital Power will be developing a traffic management plan for the Halkirk 2 Wind Project to address safety requirements and mitigate the temporary level of disruption and inconvenience to local residents.



Participating in the AUC's independent review process to consider facility applications

The AUC regulatory review process to consider facility applications for utility projects



The AUC uses an established process to review social, economic and environmental impacts of facility projects to decide if approval of a project is in the public interest.

The AUC considers applications requesting approval of the need for transmission development and facilities applications seeking approval to construct, operate, alter and decommission electric and natural gas facilities. Applications, as specified in AUC Rule 007, are required for:

- The need for transmission upgrades.
- The route and location of transmission facilities.
- The siting of power plants.
- The construction of a battery storage system.
- The designation of an industrial system.
- The need for and siting of natural gas utility pipelines.

Sometimes the Alberta Electric System Operator's needs identification document application is considered together with a facility application in a single proceeding; sometimes separate proceedings are held to consider each application.

Application review process



- Step 1: Public consultation prior to applying to the AUC
- Step 2: Application filed to the AUC
- Step 3: Public notice
- Step 4: Public submissions to the AUC
- Step 5: Consultation and negotiation
- Step 6: The public hearing process
- Step 7: The decision
- Step 8: Opportunity to appeal
- Step 9: Construction, operation and compliance

Application review process

Step 1: Public consultation prior to applying to the AUC



An applicant seeking approval of a proposed utility development project is required to engage in a participant involvement program prior to filing an application with the AUC. The public involvement program involves consultation with persons whose rights may be directly and adversely affected by the proposed project so that concerns may be raised, addressed and, if possible, resolved.

The application guidelines and requirements for facility applications can be found in AUC Rule 007: *Applications for Power Plants, Substations, Transmission Lines, Industrial System Designations, Hydro Developments and Gas Utility Pipelines*.

Potentially affected parties are strongly encouraged to participate in the public consultation, also called a participant involvement program. Early, active and ongoing discussions with an applicant may lead to greater influence on project planning and what is submitted to the AUC for approval.

Step 2: Application filed to the AUC



When the applicant has concluded its consultation with potentially affected parties and the participant involvement requirements have been completed, the applicant files its application through the AUC online public filing system, called the eFiling System.

AUC staff members review each application submitted to verify that all of the application requirements in Rule 007 have been met before an application is deemed complete. If all of the required information is not provided, the application may be closed or missing information will be requested of the applicant. Rule 007 specifies, among other requirements, that applicants must submit the results of a public involvement program in its application that includes information about how applicants consulted and notified stakeholders and Indigenous groups and identifies any unresolved objections and concerns about the project.

Step 3: Public notice



When the AUC receives an application it is assigned a proceeding number and the AUC generally mails a notice of application directly to those who live, operate a business or occupy land in the project area who may be directly and adversely affected if the AUC approves the application. The notice initiates the opportunity for formal intervention in the proceeding to consider an application or applications. The notice of application will also set out important dates and information about where to find the application and other items being considered. The five-digit eFiling System proceeding number in the notice is the most efficient way to find information about a proposed project through the AUC website.

Step 4: Public submissions to the AUC



Prior to the submission deadline provided in the notice, formal submissions of outstanding concerns and unresolved objections about a project may be submitted to the AUC. To submit a concern, participants will need to register to participate in the proceeding, which involves providing a brief written statement called a statement of intent to participate. Submissions are filed electronically through the eFiling System. The information filed becomes part of the public record and is an important part of the process to ensure that outstanding concerns are heard, understood and considered.

The AUC uses the information gathered through statement of intent to participate submissions to decide whether to hold a hearing on the application(s). The AUC must hold a hearing if a concerned person can demonstrate that they have rights that may be directly or adversely affected by the AUC's decision on the application. Such a person is said to have standing before the AUC. If the AUC decides to hold a hearing, the AUC will provide further opportunities for participants with standing to ask the applicant questions on the public record and present their position on the application either in writing or in person. Hearings may

be held in writing, in person or virtually through web-conference software.

AUC eFiling System

The eFiling System is the online tool that the AUC uses to manage applications and submissions in its proceeding-based review. The eFiling System gives access to all public documents associated with an application. The system is also used to submit your concerns and provide input to the AUC and can be used to monitor related proceeding filings. Those who do not have access to the internet can send submissions, evidence and other material by mail and the AUC will upload the submission on their behalf.

Step 5: Consultation and negotiation (if applicable)



The AUC supports efforts to reach a mutually agreeable outcome among the applicant and affected parties. The AUC encourages the applicant and those who have filed a statement of intent to participate to continue to attempt to resolve any outstanding issues. If all concerns can be satisfactorily resolved this may eliminate the need for a formal hearing. However, if there continues to be unresolved issues, those matters will typically be addressed in an AUC hearing.

Step 6: The public hearing process



The AUC will issue a notice of hearing if a person with standing continues to have legitimate unresolved concerns with the application. The notice of hearing will provide a hearing date and location, or specify if the hearing will be held in writing or virtually. When the AUC holds a public hearing, registered parties are given the opportunity to express their views directly to a panel of Commission members. Any member of the public can listen to an in-person or virtual oral hearing. An oral public hearing operates similar to a court proceeding.

Participants in a hearing can either represent themselves or be represented by a lawyer. In addition, participants may hire experts to assist in preparing and presenting evidence to support their position.

Cost assistance



A person determined by the AUC to have standing or a local intervener can apply for reimbursement of reasonable costs. Those who hire a lawyer or technical experts must be aware that while reimbursement for the costs of legal and technical assistance is available under AUC Rule 009: *Rules on Local Intervener Costs*, recovery of costs is subject to the AUC's assessment of the value of the contribution provided by the lawyer and technical experts in assisting the AUC to understand the specifics of the case. It is also subject to the AUC's published scale of costs.

People with similar interests and positions are expected and encouraged to work together to ensure that expenditures for legal or technical assistance are minimized and costs are not duplicated.

Step 7: The decision



The AUC's goal is to issue its written decision no more than 90 days after the close of record. The AUC can approve, or deny an application and can also make its approval conditional upon terms or conditions. AUC decisions are publicly available through the AUC website at www.auc.ab.ca.

Step 8: Opportunity to appeal



An applicant or participant in a proceeding may formally ask the Court of Appeal of Alberta for permission to appeal an AUC decision. An application for permission to appeal must be filed within 30 days from the date the decision is issued.

An applicant or participant in a proceeding can also ask the AUC to review its decision. An application to review a decision must be filed within 60 days from the date the decision is issued and satisfy the limited grounds described in AUC Rule 016: *Review of Commission Decisions*.

Step 9: Construction, operation and compliance



An applicant that receives approval to build and operate a facility from the AUC is expected to follow through on any commitments it has made to parties and must adhere to any conditions that were set out in that approval. If concerns about compliance with approval conditions and post-construction operations cannot be resolved with the applicant, they can be brought to the AUC's attention for consideration. The AUC has significant compliance and enforcement powers for all approved applications. Additional information is available on the AUC website.



The Alberta Utilities Commission is an independent, quasi-judicial agency of the government of Alberta that ensures the delivery of Alberta's utility services take place in a manner that is fair, responsible and in the public interest.

We are committed to ensuring that Albertans whose rights may be directly and adversely affected by a utility development project are informed of the application and have the opportunity to have their concerns heard, understood and considered.

Contact us

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