

October 20, 2021

Notified Market Participant Corporate Legal Name

Address Line 1.

Address Line 2.

City, Province, Postal Code.

Dear **Notified Market Participant Primary Contact:**

Re: **Planned Generating Facility Connections in the AESO's Central Planning Region**

The Alberta Electric System Operator (AESO) would like to advise you that the proponents of two approved generating facilities (Facilities) have each applied for transmission system access to connect their respective Facilities to the Alberta interconnected electric system (AIES) in the AESO's Central Planning Region.

Planning for the connection of these facilities is undertaken by the AESO as part of the *AESO Connection Process*. The Facilities are as follows:

- the Hand Hills Wind Project; and
- the Grizzly Bear Creek Wind Power Plant.

The AESO has produced Need Overview documents that describe the AESO's proposed transmission development to connect each of the Facilities to the AIES and the AESO's next steps, which includes submitting needs identification document (NID) applications to the Alberta Utilities Commission (AUC) for approval. Copies of the applicable AESO Need Overview documents are attached for your information.

The purpose of this letter is to advise you that the AESO has identified that, under credible worse case forecast conditions, the operation of the **[Effective Generation Facility Name] ([Effective Generation Facility Asset ID])** may be affected following the connection of one or more of the above-noted Facilities.¹

Connection Assessment Findings

Engineering connection assessments were carried out by the AESO in order to assess the transmission system performance following the connection of the Facilities. The connection assessments identified the potential for thermal criteria violations following the connection of one or more of the Facilities, under credible worse case forecast conditions, when a single transmission facility is out of service (Category B) following the connection of one or both of the Facilities. To mitigate these potential system performance issues, the existing remedial action scheme RAS 134, 138, and 139, and the planned 901T-801S Anderson Overload Mitigation scheme will be modified.

The AESO may also make use of real-time operational measures to mitigate these potential system performance issues in accordance with [Section 302.1 of the ISO rules, Real Time Transmission Constraint](#)

¹ The studies were performed assuming the following Rate STS, *Supply Transmission Service*, contract capacities: Hand Hills Wind Project, Rate STS of 145 MW; and Grizzly Bear Creek Wind Power Plant Rate STS of 120 MW.

Management (TCM Rule), which is in effect today. When applied, the TCM Rule could result in the AESO issuing directives for curtailment to source assets that are effective in managing a constraint.

The connection assessments have identified source assets, including the **[Effective Generation Facility Name]** (**[Effective Generation Facility Asset ID]**), which are effective in mitigating the potential transmission constraints.

For Further Information

Following submission of the NID applications to the AUC, the NID applications will be posted on the AESO website at: <https://www.aeso.ca/grid/projects/>

If you have any questions or concerns, please contact the AESO at 1-888-866-2959 or stakeholder.relations@aeso.ca

Attachments:

AESO Need Overview: *Need for the Hand Hills Wind Project Connection in the Delia area*

AESO Need Overview Update: *Need for the Grizzly Bear Creek Wind Power Plant Connection in the Vermillion area*

Need for the Hand Hills Wind Project Connection in the Delia area

BluEarth Renewables Hand Hills Wind Limited Partnership, on behalf of its general partner, BER Hand Hills Wind GP Inc. (BER Hand Hills LP) has applied to the AESO for transmission system access to connect its approved Hand Hills Wind Project (Facility) in the Delia area. BER Hand Hills LP's request can be met by the following solution:

PROPOSED SOLUTION

- Add one 144 kilovolt (kV) transmission line to connect the Facility to the existing 144 kV transmission line 7L128 in a T-tap configuration.
- Add or modify associated equipment as required for the above transmission developments.

NEXT STEPS

- The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need in late 2021.
- The AESO's needs identification document (NID) application will be available on the AESO's website at www.aeso.ca/grid/projects at the time of its application to the AUC.

The following organizations have key roles and responsibilities in providing access to the transmission system:

THE AESO

- Must plan the transmission system and enable access to it for generators and other qualified customers.
- Is regulated by the AUC and must apply to the AUC for approval of its NID.

BER HAND HILLS LP

- Has requested transmission system access to connect the Facility.
- Is responsible for detailed siting and routing, and constructing the new 144 kV transmission line to connect the Facility to the transmission line 7L128.
- Must apply to the AUC for approval of its transmission facilities applications.

ATCO

- Is the transmission facility owner in the Delia area.
- Is responsible for operating and maintaining the new 144 kV transmission line, and constructing, operating and maintaining the transmission facilities associated with the transmission line 7L128 modification.
- Is regulated by the AUC and must apply to the AUC for approval of its transmission facilities applications.

WHO IS THE AESO?

The Alberta Electric System Operator (AESO) plans and operates Alberta's electricity grid and wholesale electricity market safely, reliably and in the public interest of all Albertans. We are a not-for-profit organization with no financial interest or investment of any kind in the power industry.

We appreciate your views, both on the need for transmission system development and proposed transmission plans. If you have any questions or comments, please contact us directly.

CONTACT US

Alberta Electric System Operator

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1-888-866-2959

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Phone: 403-539-2450

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Need for the Grizzly Bear Creek Wind Power Plant Connection in the Vermillion area

Enel Alberta Wind Inc. (Enel), has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its approved Grizzly Bear Creek Wind Power Plant (Facility) in the Vermillion area.

Distribution of the original AESO Need Overview began in December 2015. The AESO filed a Needs Identification Document (NID) application in May 2016 and was approved in October 2016. As a result of a revised proposed solution and schedule, the AESO determined that an amendment to the approved NID application will be required. The AESO intends to submit the amended NID as described below.

Enel's request can be met by the following solution:

REVISED PROPOSED SOLUTION

- Add one 144 kilovolt (kV) transmission line to connect the Facility to the existing 144 kV transmission line 7L65 in a T-tap configuration. Originally, the preferred solution included adding the Steele 2016S substation.
- Add or modify associated equipment as required for the above transmission developments.

NEXT STEPS

- The AESO intends to apply to the Alberta Utilities Commission (AUC) of this amendment in late 2021.
- The AESO's needs identification document (NID) application will be available on the AESO's website at www.aeso.ca/grid/projects at the time of its application to the AUC.

The following organizations have key roles and responsibilities in providing access to the transmission system:

THE AESO

- Must plan the transmission system and enable access to it for generators and other qualified customers.
- Is regulated by the AUC and must apply to the AUC for approval of its NID.

ATCO

- Is the transmission facility owner in Vermillion area.
- Is responsible for detailed siting and routing, constructing, operating and maintaining the transmission facilities.
- Is regulated by the AUC and must apply to the AUC for approval of its transmission facilities applications.

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