

September 17, 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 South Planning Region**

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

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

- the **Dunmore Solar Power Project**; and
- the **Buffalo Trail North Wind Project**.

The AESO has produced Need Overview documents that describe the AESO's proposed transmission development to connect each of the planned 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 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 both of the above-noted planned Facilities.<sup>1</sup>

### ***Connection Assessment Findings***

Engineering connection assessments were carried out by the AESO to assess the transmission system performance following the connection of the planned Facilities. The connection assessments identified the potential for thermal and voltage criteria violations under certain abnormal (Category B) system conditions, following the connection of either of the planned Facilities. To mitigate these potential system performance issues, the existing remedial action scheme RAS 164 will be modified. In addition, a new RAS will be required to connect the Dunmore Solar Power Project, which curtails the Dunmore Solar Power Project upon activation.

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<sup>1</sup> The studies were performed assuming the following Rate STS, *Supply Transmission Service*, contract capacities: Dunmore Solar, Rate STS of 216 MW; and Buffalo Trail North Wind, Rate STS of 300 MW.

The AESO may also make use of real-time operational procedures to mitigate these potential thermal and voltage criteria violations, in accordance with [Section 302.1 of the ISO rules, Real Time Transmission Constraint 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 assessment 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](mailto:stakeholder.relations@aeso.ca)

**Attachments:**

AESO Need Overview: *Need for the Dunmore Solar Project Connection in the Dunmore area*

AESO Need Overview: *Need for the Buffalo Trail North Wind Project Connection in the Dunmore area*

# Need for the Dunmore Solar Power Project in the Dunmore area

*Dunmore Solar Inc. (Dunmore) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Dunmore Solar Power Project (Facility) in the Dunmore area. Dunmore's request can be met by the following solution:*

## PROPOSED SOLUTION

- Add one 138 kilovolt (kV) transmission line to connect the Facility to the existing 138 kV transmission line 676L 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](http://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.

## ALTALINK

- Is the transmission facility owner in the Dunmore 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.

## 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

AESO Stakeholder Relations  
[stakeholder.relations@aes0.ca](mailto:stakeholder.relations@aes0.ca)  
1-888-866-2959

2500, 330-5th Avenue SW  
Calgary, AB T2P 0L4  
Phone: 403-539-2450

[www.aeso.ca](http://www.aeso.ca) | [@theaes0](https://twitter.com/theaes0)

# Need for the Buffalo Trail North Wind Project Connection in the Dunmore Area

*ENGIE Development Canada LP (ENGIE) has applied to the AESO for transmission system access to connect its proposed Buffalo Trail North Wind Project (Facility) in the Dunmore area. ENGIE's request can be met by the following solution:*

## PROPOSED SOLUTION

- Add one 240 kilovolt (kV) transmission line to connect the Facility to the existing 240 kV transmission line 983L 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](http://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.

## ALTALINK

- Is the transmission facility owner in the Dunmore 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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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

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