

September 23, 2022

Notified Market Participant Corporate Legal Name
Address Line 1.
Address Line 2.
City, Province, Postal Code.

Dear **Notified Market Participant Primary Contact:**

Re: **Need for the Duchess Solar Project Connection in the Brooks area**

The Alberta Electric System Operator (AESO) would like to advise you that ENGIE Development Canada LP (ENGIE) has applied for transmission system access to connect its Duchess Solar Project (planned Facility) to the Alberta interconnected electric system (AIES) in the AESO South Planning Region.

The purpose of this letter is to advise you that the AESO has identified that, under credible worse case forecast conditions, the **[Effective Generation Facility Name]** (**[Effective Generation Facility Asset ID]**) may be curtailed following the connection of the planned Facility.

Connection Assessment Findings

An engineering connection assessment was carried out by the AESO to assess the transmission system performance following the connection of the planned Facility.¹ The connection assessment identified the potential for thermal criteria violations when a single transmission facility is out of service (Category B) following the connection of the planned Facility. To mitigate these potential Category B system performance issues, planned remedial action scheme (RAS) 197 may be used which curtails **[Effective Generation Facility Name]** (**[Effective Generation Facility Asset ID]**) upon activation.

The AESO may also make use of real-time operational measures to mitigate these potential system performance issues post activation of planned RAS 197, 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 HVDC power order or 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

The AESO Need Overview document is attached for your information. The AESO Need Overview describes the AESO's proposed transmission development to connect the planned Facility to the AIES.

¹ The studies were performed assuming the Rate STS, *Supply Transmission Service*, contract capacity of 90 MW.

Following submission of the NID application to the Alberta Utilities Commission, the NID application will be posted on the AESO website at: <https://www.aeso.ca/grid/transmission-projects/>. Stakeholders will be notified when this occurs via the AESO stakeholder newsletter.

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 Duchess Solar Project Connection in the Brooks area*

Need for the Duchess Solar Project Connection in the Brooks area

ENGIE Development Canada LP (ENGIE) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Duchess Solar Project (Facility) in the Brooks area. ENGIE'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 831L 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-2022.
- 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.

ALTALINK

- Is the transmission facility owner in the Brooks 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

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