

July 26, 2019

[Notified Market Participant]**[Notified Market Participant Address]**Dear **Notified Market Participant**:Re: **Need for the Travers Solar Project Connection in the Lomond area**

The Alberta Electric System Operator (AESO) would like to advise you that Greengate Power Corporation (Greengate) has applied for transmission system access to connect its Travers Solar Project (planned Facility) to the Alberta interconnected electric system (AIES) in the AESO South Planning Region.

A copy of 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, and the AESO's next steps, which includes submitting a needs identification document (NID) application to the Alberta Utilities Commission (AUC) for approval.

The purpose of this letter is to advise you that the AESO has identified that, under some potential system conditions, the operation of the **[Notified Market Participant Facility]** may be affected following the connection of the planned Facility.¹

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. The connection assessment identified the potential for system performance issues, under certain abnormal (Category B) system conditions, following the connection of the planned Facility.

Transmission Constraint Management

To mitigate these potential system performance issues, existing and planned remedial action schemes (RASs) may be modified. In addition, new RASs may be required.

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 Management* (TCM Rule). 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 **[Notified Market Participant Facility]**, which are effective in mitigating the potential transmission constraints.

¹ The studies were performed assuming the Rate STS, *Supply Transmission Service*, contract capacity of 400 MW.

Renewable Generation Integration

The actual impacts of the connection of the planned Facility will depend on the actual energization timing, as well as the energization timing of other planned renewable generation connection projects in the area. The AESO will ensure plans are in place when impacts of the planned Facility, and the other planned renewable generation connection projects in the area become certain. As mentioned in the AESO's *2019 Transmission Capability Assessment for Renewables Integration* report,² renewable integration capability could be achieved through use of RASs, which is consistent with the findings of the engineering connection assessment.

For Further Information

The engineering connection assessment will be included in the AESO's Travers Solar Project Connection NID application. Following submission of the NID application to the AUC, the NID application 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

Yours truly,

"Electronically signed by"

Maz Mazadi, PhD, P.Eng., SMIEEE
Manager, Project and System Access Studies

Attachments:

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

² Available on the AESO website at: <https://www.aeso.ca/grid/long-term-transmission-plan/>

Need for the Travers Solar Project Connection in the Lomond area

Greengate Power Corporation (Greengate) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Travers Solar Project (Facility) in the Lomond area. Greengate'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 1005L.
- 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 mid-2019.
- 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.

GREENGATE

- Has requested transmission system access to connect the Facility.
- Is responsible for detailed siting and routing, and constructing the 240 kV transmission line to connect the Facility to the existing 240 kV transmission line 1005L.
- Must apply to the AUC for approval of its transmission facilities applications.

ALTALINK

- Is the transmission facility owner in the Lomond area.
- Is responsible for operating and maintaining the 240 kV transmission line and the associated equipment required to connect the Facility to the existing 240 kV transmission line 1005L.
- 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

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