

January 21, 2026

Notified Market Participant Corporate Legal Name

Address Line 1.

Address Line 2.

City, Province, Postal Code.

Dear **Notified Market Participant Primary Contact:**

Re: **Oyen 1 Solar Project Connection**

The Alberta Electric System Operator (AESO) would like to advise you that UK Solar East Ltd (UK Solar) has applied for transmission system access to connect its proposed Oyen 1 Solar Project (Facility) to the Alberta interconnected electric system (AIES) in the AESO Central Planning Region.

The purpose of this letter is to advise you that the AESO has identified that, under credible worse case forecast conditions, the operation of **[Effective Generation Facility Name]** (**[Effective Generation Facility Asset ID]**) may be affected following the connection of the 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 Facility.¹ The connection assessment identified the potential for thermal criteria violations following the connection of the Facility, under credible worse case forecast conditions, with all transmission facilities in service (Category A).

Category A thermal criteria violations were observed pre-Project on the 138/144 kV transmission lines 749AL, 7L760/760L, 7L132, 715L, and 715AL and most of these are exacerbated with the addition of the proposed Facility. New Category A thermal criteria violations were observed on the 138 kV transmission line 472L, and on the 240 kV transmission line 9L62 following the connection of the Facility. The approved Central East Transfer-Out (CETO)² Transmission Development will alleviate violations on 9L62 once it is in service. Should the AESO determine that mitigation is required to address potential thermal criteria violations under Category A conditions, the AESO may develop operational procedures or other mitigation measures.

The AESO will 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), 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.

In addition, thermal criteria violations and a transient instability violation were also identified when a single transmission facility is out of service (Category B) following the connection of the Facility. To mitigate these potential system performance issues, real-time operational measures and existing, planned, modified and new remedial action schemes (RASs) will be used. Once RAS 201 is modified to add the Facility to the RAS logic, the total megawatts assigned to the RAS will exceed the Maximum Severe Single Contingency (MSSC) limit.

¹ The studies were performed assuming the Rate STS, *Supply Transmission Service*, contract capacity of 268 MW and a Rate DTS, *Demand Transmission Service*, contract capacity of 1 MW.

² More information about the approved CETO Project is available on the AESO website. Construction is commencing for Stage 1, with an anticipated in-service date of Q2 2026.

Therefore, pre-contingency curtailment of projects assigned to these RASs may be required under the Category A condition, to prevent generation curtailment above the MSSC limit during Category B conditions.

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

For Further Information

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

The engineering connection assessment will be included in the AESO's Oyen 1 Solar Project Connection needs identification document (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/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: Oyen 1 Solar Project Connection

Need for the Oyen 1 Solar Project Connection

UK Solar East Ltd (UK Solar) has applied to the AESO for transmission system access to connect its proposed Oyen 1 Solar Project (Facility) in the Oyen area. UK Solar'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 Lanfine 959S substation in a radial configuration.
- Modify Lanfine 959S substation, including adding two 240 kV circuit breakers.
- Add or modify associated equipment as required for the above transmission developments.

NEXT STEPS

- In mid 2025, the AESO may consider the need for this project for approval under section 501.3 of the ISO rules, *Abbreviated Needs Approval Process (ANAP Rule)*, or apply to the Alberta Utilities Commission (AUC) for approval of the need.
- The AESO will notify stakeholders via the AESO's website at www.aeso.ca/grid/transmission-projects prior to the project being considered under the ANAP Rule or when filing a needs identification document (NID) application with 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.
- Can approve eligible projects through the ANAP Rule and for non-eligible projects, the AESO will prepare and submit a NID to the AUC for approval.

ATCO

- Is the transmission facility owner in Oyen 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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