

October 17, 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 Jurassic Solar Project Connection in the Iddesleigh area**

The Alberta Electric System Operator (AESO) would like to advise you that Jurassic Solar LP has applied for transmission system access to connect its Jurassic Solar Project (planned Facility) to the Alberta interconnected electric system (AIES) in the AESO's 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.<sup>1</sup> The connection assessment identified the potential for thermal criteria violations on the 138 kV transmission lines 174L and 7L171 as well as the 240 kV transmission line 912L following the connection of the planned Facility, under credible worse case forecast conditions, with all transmission facilities in service (Category A). 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.

In addition, thermal criteria violations were also identified when a single transmission facility is out of service (Category B) following the connection of the planned Facility. To mitigate the potential Category B system performance issues, a planned remedial action scheme (RAS), RAS 201 will be modified by adding the planned Facility to the RAS logic, which curtails the planned Facility upon activation. Existing and planned RAS 134, 199, 200, and 202 will continue to be applied for other observed Category B constraints without modifications to include the planned Facility. The total megawatts tied to RAS 134 and RAS 201 exceeds the Maximum Severe Single Contingency (MSSC) limit. Therefore, pre-contingency curtailment of projects assigned to the RASs may be required under the Category A condition, to prevent generation curtailment above the MSSC limit during Category B conditions.

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), 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.

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<sup>1</sup> The studies were performed assuming the Rate STS, *Supply Transmission Service*, contract capacity of 300 MW.

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

If the AESO determines that congestion will arise under Category A conditions, the AESO will make an application to the AUC to obtain approval for an “exception” under Section 15(2) of the *Transmission Regulation*. The AESO will notify market participants if and when the AESO determines it is necessary to apply to the AUC for approval of such an exception.

***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.

To support the AESO’s consideration of the Jurassic Solar Project Connection under the Abbreviated Needs Approval Process, the engineering connection assessment 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 website and in 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](mailto:stakeholder.relations@aeso.ca)

**Attachments:**

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

# Need for the Jurassic Solar Project Connection in the Iddesleigh area

*Jurassic Solar LP (Jurassic) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Jurassic Solar Project (Facility) in the Iddesleigh area. Jurassic'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 944L in a T-tap configuration.
- Add or modify associated equipment as required for the above transmission developments.

## NEXT STEPS

- The AESO intends to approve this request for transmission system access under the abbreviated needs approval process (ANAP) in late-2022.
- A minimum of 14 days prior to the project being considered under the ANAP Rule, the AESO will notify stakeholders and post supporting documents on the AESO's website at [www.aeso.ca/grid/projects](http://www.aeso.ca/grid/projects).
- If the AESO does not approve the need for this project under the ANAP Rule, the AESO may submit a needs identification document (NID) application to the Alberta Utilities Commission (AUC) for approval of the need for this project.

*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 certain requests for system access service through the ANAP. If this project no longer qualifies for approval under the ANAP, the AESO will prepare and submit a NID.
- Is regulated by the AUC and must apply to the AUC for approval of its NID.

## JURASSIC SOLAR

- Has requested transmission system access to connect the Facility.
- Is responsible for detailed siting and routing, and constructing the new 240 kV transmission line to connect the Facility to the transmission line 944L.
- Must apply to the AUC for approval of its transmission facilities applications.

## ALTALINK

- Is the transmission facility owner in the Iddesleigh area.
- Is responsible for operating and maintaining the new 240 kV transmission line, and constructing, operating and maintaining the transmission facilities associated with the transmission line 944L 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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