

# Need for the Forty Mile Wind Power Plant Connection in the Bow Island area

*Renewable Energy Systems Canada Inc. (RES) has applied to the Alberta Electric System Operator (AESO) to connect its approved Forty Mile Wind Power Plant (Facility) in the Bow Island area. RES' request can be met by the following solution:*

## PROPOSED SOLUTION

- Add one substation, to be designated Murray Lake 326S substation, including three 240 kilovolt (kV) circuit breakers.
- Connect the proposed Murray Lake 326S substation to the existing 240 kV transmission line 964L in an in-and-out configuration.
- Add one 240 kV transmission line to connect the Facility to the Murray Lake 326S substation.
- 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-2022.
- 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.

## RES

- 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 proposed Murray Lake 326S substation.
- Must apply to the AUC for approval of its transmission facilities applications.

## ALTALINK

- Is the transmission facility owner in the town of Bow Island area.
- Is responsible for operating and maintaining the new 240 kV transmission line and constructing, operating and maintaining the transmission facilities associated with the proposed Murray Lake 326S substation.
- 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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