

# Need for the Edmonton Carbon Capture Utilization and Storage Connection

*Heidelberg Materials Canada Limited (Heidelberg) has applied to the AESO for transmission system access to connect its proposed Edmonton Carbon Capture Utilization and Storage Project (Facility) in the Edmonton area. Heidelberg'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 711L in a T-tap configuration.
- Rerminate the existing 138 kV transmission line 747L from the existing tap with transmission line 711L to the North Calder 37S substation.
- Modify the North Calder 37S substation, including adding one 138 kV circuit breaker.
- Increase the capacity of the existing 138 kV transmission line 711L.
- Add or modify associated equipment as required for the above transmission developments.

## NEXT STEPS

- In early 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](http://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.

## ALTALINK & EDTI

- Are the transmission facility owners in the Edmonton area.
- EDTI is responsible for detailed siting and routing and constructing the new 138 kV transmission line to connect the Facility to the existing 138 kV transmission line 711L.
- AltaLink is responsible for constructing, operating and maintaining the transmission facilities associated with the North Calder 37S substation modification.
- Are 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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