



The transmission system in your area needs improvement

CITY OF EDMONTON TRANSMISSION REINFORCEMENT PROJECT

- ▶ The **Alberta Electric System Operator (AESO)** plans and operates Alberta's electric transmission system. We study the transmission system to determine what future upgrades and expansions will be needed to continue to serve the province's growing power demands, and enable access to generators and other qualified customers. The AESO is regulated by, and must apply to, the Alberta Utilities Commission (AUC) for approval of our Needs Identification Document Application, in which we must demonstrate the need for an expansion or enhancement to the transmission system, and propose a transmission solution to meet that need.

TRANSMISSION REINFORCEMENT IS NEEDED IN THE CITY OF EDMONTON TO RELIABLY SERVE THE GROWING DEMAND FOR ELECTRICITY AND TO REPLACE AGING TRANSMISSION INFRASTRUCTURE.

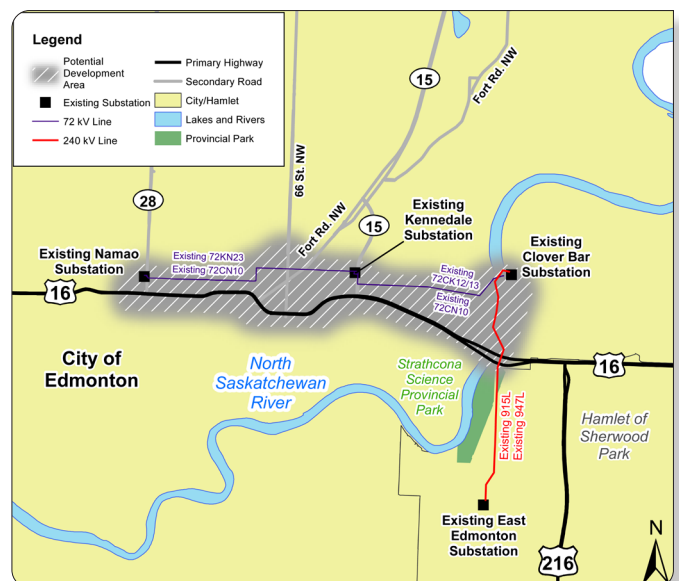
EXISTING TRANSMISSION SYSTEM

The City of Edmonton is primarily served by 72 kV and 240 kV transmission systems: while the 72 kV system primarily delivers electricity to the inner city, the 240 kV system primarily serves the suburbs along Anthony Henday Drive. The higher-voltage lines carry power produced by generation facilities, such as natural gas plants and wind farms, to the city. Substations are then used to transform power to a lower voltage so it can be distributed to homes and businesses.

THE NEED

The AESO has identified a need to enhance the transmission system in the area of northeast Edmonton highlighted in the map. The 72 kV transmission system serving the area is reaching capacity. Soon the system will be unable to reliably serve the growing demand for electricity in the area. In addition, EPCOR, the transmission facility owner in the City of Edmonton, has identified a need to replace aging oil-filled cables connected to the Kennedale and Namao substations.

Potential Development Area





WHAT IS THE PROPOSED SOLUTION?

The AESO is proposing the following transmission infrastructure to meet the need:

- Add a new substation, which will be connected to the existing 240 kV transmission line near the existing Clover Bar substation
- Add two new 72 kV transmission lines—approximately 6 km in length—to connect the new substation to the existing Namao substation
- Modify the Namao substation to accommodate the new 72 kV transmission lines
- Decommission the existing Kennedale substation and four existing 72 kV cables connecting Clover Bar, Kennedale, and Namao

WILL YOU BE AFFECTED?

If you are receiving this information, you live or operate your business in an area where existing transmission facilities may be modified, or new transmission facilities may be located. Please review EPCOR's information about the proposed location of the required facilities. As the transmission facility owner in the City of Edmonton, identifying specific locations where facilities may be constructed or modified is EPCOR's responsibility.

NEXT STEPS

The AESO anticipates filing a Needs Identification Document (NID) Application for the City of Edmonton Transmission Reinforcement (CETR) project with the AUC in late 2023. Once the NID Application has been filed, it will be shared on our website at www.aeso.ca/grid/transmission-projects/CETR. EPCOR will file their Facility Application for CETR with the AUC concurrent with the AESO's NID Application.

AESO AND TFO ROLES

The AESO operates the provincial transmission system so that all Albertans can count on safe and reliable electricity to power our homes and businesses each and every day. We carefully plan transmission upgrades and expansions to keep up with Alberta's growing demand for power.

Transmission facility owners (TFOs) are companies that build, operate and maintain the transmission system in our province. While the AESO is responsible for identifying the need for transmission development and the proposed transmission development to meet that need, TFOs are responsible for detailed siting and routing, constructing, operating and maintaining the associated transmission facilities within their service territories.

The City of Edmonton's TFO, EPCOR, owns and operates the transmission infrastructure and will be responsible for applying to the Alberta Utilities Commission (AUC) for approval of the transmission lines and substations. In preparing their Facility Application, EPCOR will be consulting with stakeholders about the substations, transmission line locations and structure types and related upgrades. They will finalize their proposed plans based on public input.

QUESTIONS?

At the AESO, we operate on behalf of you and all Albertans. We value the opportunity to listen to your comments and answer your questions about the need for the proposed transmission reinforcement prior to approval.

Please contact AESO Stakeholder Relations at stakeholder.relations@aeso.ca or 1-888-866-2959

The AESO is committed to protecting your privacy.

The feedback, comments and contact information you choose to submit is being collected by the AESO to respond to your inquiries and/or to provide you with further information. This information is collected in accordance with Section 33(c) of the Freedom of Information and Protection of Privacy Act (FOIP).

If you have any questions about the collection or use of this information, please contact the Manager, FOIP and Records Management, 2500, 330 – 5th Ave. SW, Calgary, Alberta, T2P 0L4 or by telephone at 403-539-2528. If you choose to communicate by email, please note that email is not a secure form of communication. Security of your communication while in transit cannot be guaranteed.