

# City of Edmonton Transmission Reinforcement Project

## PROJECT UPDATE

Spring 2025

Over the past two years, we have discussed the City of Edmonton Transmission Reinforcement Project with over 1,000 homeowners, residents, businesses and other interested parties located near our proposed project. Thank you to everyone who took the time to share your comments with us.

### Project Overview

EPCOR is planning new transmission power lines and a new substation to replace aging infrastructure and meet an increased demand for power in northeast Edmonton. This project includes:

- a new double circuit 240 kV transmission line
- a new double circuit 72 kV transmission line
- a new substation
- modifications to the existing Namao Substation

### Route Selection

Based on the assessments we have completed and the feedback received, we have selected preferred and alternate routes for the 72 kV and 240 kV transmission lines that have the lowest overall impact. We have submitted a Facility Application with the Alberta Utilities Commission (AUC) for approval of either the preferred or alternate route (**proceeding number 29866**).

The AUC is an independent quasi-judicial agency responsible for approving power transmission facilities in Alberta. If the City of Edmonton Transmission Reinforcement Project is approved, the AUC will also decide which routes will be constructed.

The preferred and alternate routes are shown on the map inside this package.

## OUR COMMITMENT

We understand this development can impact people and recognize that there will still be some concerns. We take those concerns seriously and will continue to work with those affected on an individual basis. You can still provide feedback about this project to both us and the AUC while our Facility Application is being considered.

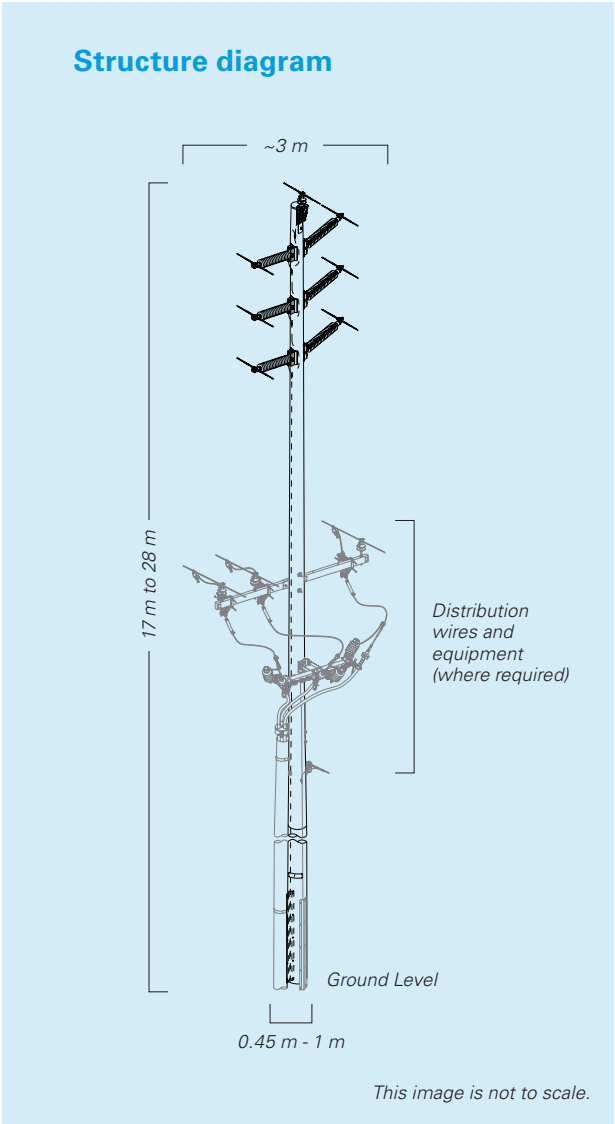


72 KV TRANSMISSION LINE

After careful consideration EPCOR selected **Route N1/N2 as the preferred route** for the above ground double circuit 72 kV transmission line. This route would reduce construction impacts, limit power outages, and avoid conflicts with a nearby rail yard. EPCOR has also proposed an alternate route (Route segment N1/S2) for consideration.

Construction

If approved, structures would be installed along the route using drills, excavators and other equipment. Once all the structures are installed, a crane would be used to attach the wires in stages to reduce impacts to roadways.



Non-typical structures such as double poles and poles with wider bases may be required at certain locations along the line, including where the line turns corners or spans longer distances. Images of non-typical structures can be viewed on our webpage [www.epcor.com/cetr](http://www.epcor.com/cetr).

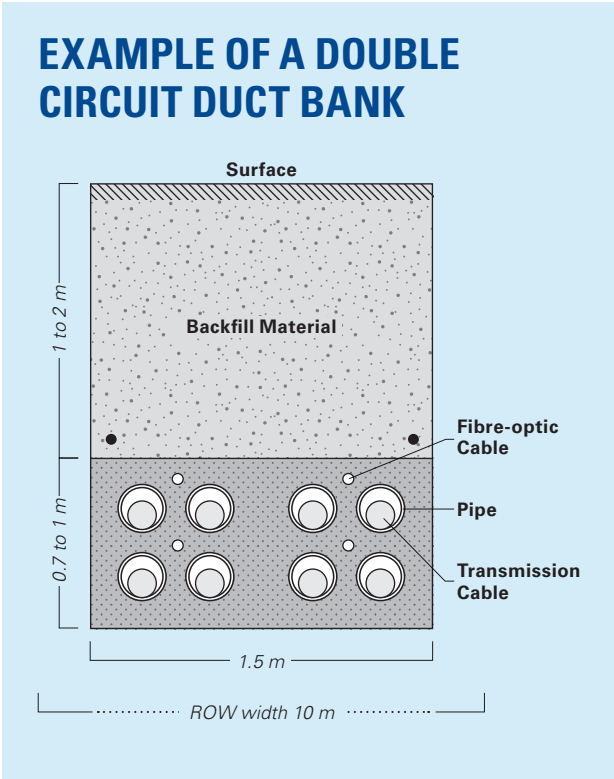


240 KV TRANSMISSION LINE

After careful consideration EPCOR has selected **Route B (underground) as the preferred route** for the double circuit 240 kV transmission line and Route E as the alternate route. Route B was selected as the preferred route as it minimizes interaction with nearby rail infrastructure, minimizes impacts to the environment and resolves concerns with visual impact. Route B was the most favoured route by property owners, residents and occupants in the area.

Construction

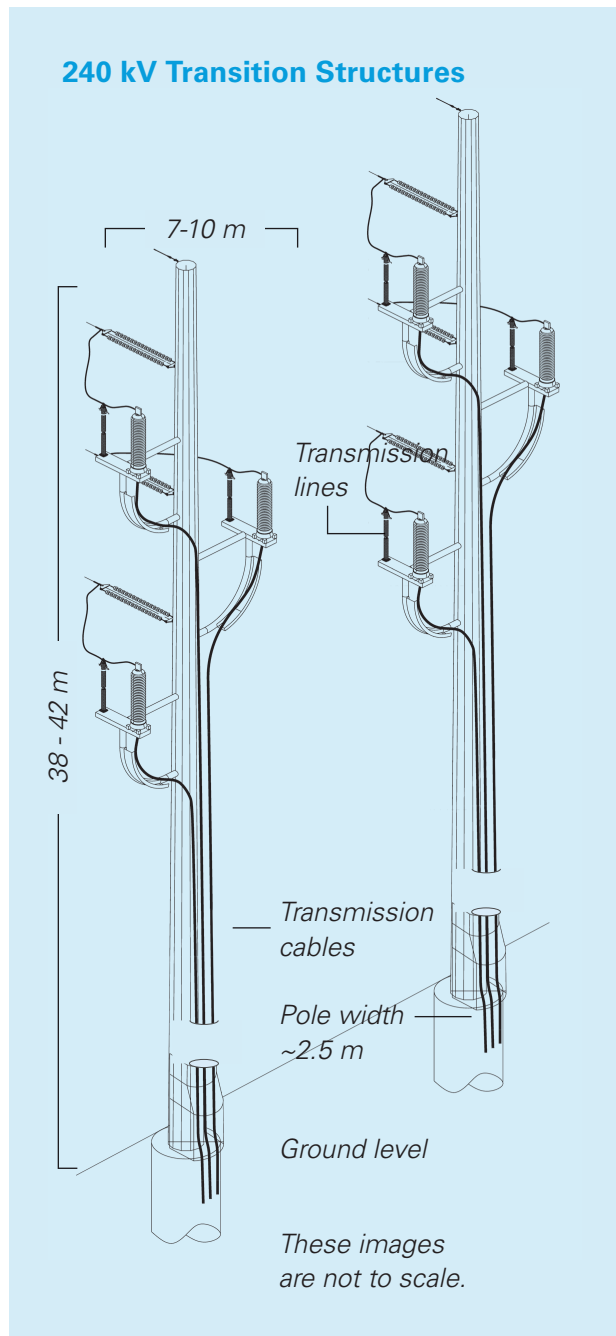
If approved, the preferred underground route will be installed in a concrete duct bank. This would involve open cut trench excavation for most of the route using excavators and hydrovac trucks. A trenchless method would be used for major road and railway crossings, which would use a directional drill. EPCOR would prioritize access to the construction area from Yellowhead Trail to reduce traffic through residential areas.





## 240 KV TRANSITION STRUCTURES

Both the preferred and alternate 240 kV routes would require two structures to transition the transmission line from underground to above ground. These structures would be approximately 38-42 metres tall and 7-10 metres wide. The red boxes on the map show approximately where these structures would be located for each route option.



## RIGHT-OF-WAY AGREEMENTS

A right-of-way is the area we need to safely operate and maintain our power lines. EPCOR manages a right-of-way to prevent objects from contacting the wires/cables, this includes trees and other vegetation. EPCOR representatives will be reaching out to property owners along the preferred routes that will require a right-of-way on their property to discuss right-of-way agreements.

## DISTRIBUTION

Where transmission lines bring bulk power to substations throughout Edmonton, distribution lines bring power to homes and businesses. As a part of this project, we will need to relocate some of the distribution lines in the area to connect to the proposed new Fort Road Substation. EPCOR contractors will be doing work throughout the project area to help plan these relocations, which may include the use of a hydrovac truck to locate existing utilities.

## EXISTING FACILITIES

If this project is approved, existing underground 72 kV transmission lines and the Kennedale Substation will be removed from service. The existing underground transmission lines/cables are contained in fluid-filled pipes. To remove the transmission cables from service, the fluid would be drained from the pipe and the cables pulled out. Once the cables are removed, the pipes would be inspected and cleaned so that they could potentially be reused for other future purposes, such as containing communication cables. These activities would not occur until after all the new facilities are built and operating in 2028-2029. More information on these activities would be provided closer to this time.

## PROPERTY VALUE

During our conversations with community members, we received questions on impacts to property value. In response to these questions, we hired a consultant to evaluate and prepare a report on the potential effects of high voltage transmission lines on residential property values within the City of Edmonton.

**For the Preferred and Alternate 72 kV Routes,** the report concluded that due to the distance from the structures and the existing linear disturbances along the routes, no property value impacts are anticipated.

**For the Preferred and Alternate 240 kV Routes,** the report concluded that since the 240 kV transmission lines will be underground (Preferred 240 kV Route) or mainly underground (Alternate 240 kV Route), it would not result in any property value impacts to adjacent properties. For the above ground portion of the Alternate 240 kV Route, no property value impacts are expected due to the large distance between the above ground structures and the potentially affected residential properties.

This report is included in our Facility Application, which is available on the Alberta Utilities Commission eFiling system or you can contact us for more information.

## NEXT STEPS

This project cannot proceed without approval from the Alberta Utilities Commission (AUC). Once the AUC reviews the Facility Application, they will send out a notice of filing to provide more information on the next steps in their process. This is an opportunity to provide feedback directly to the AUC, including route preferences.

If the AUC approves this project, they will also select which routes will be constructed. This would include one route for the 240 kV transmission line and one route for the 72 kV transmission line.

## CONTACT EPCOR

We continue to be available to answer questions and consider feedback on the project.

**Phone:** 780-412-8800

**Email:** [cetr@epcor.com](mailto:cetr@epcor.com)

**Web:** [epcor.com/CETR](http://epcor.com/CETR)

Residents and businesses along the retired route options will no longer receive updates on the project. If you would like updates on the project, you can visit [www.epcor.com/cetr](http://www.epcor.com/cetr). We will continue to provide updates on the project to those around the preferred and alternate routes.

## ALBERTA UTILITIES COMMISSION (AUC)

Alberta's electric system is regulated by the AUC. The AUC is an independent quasi-judicial agency that ensures the delivery of Alberta's utility service takes place in a manner that is fair, responsible and in the public's interest. For more information about how you can participate in the process, please refer to the AUC's brochure included in this package entitled *Participating in the AUC's independent review process to consider facility applications* or visit the AUC website.

## CONTACT THE AUC

**Toll-free:** 1-833-511-4282

**Phone:** 310-4282

**Website:** [www.auc.ab.ca](http://www.auc.ab.ca)