# PROJECT NOTICE

## Clover Bar Interconnection Project - The Edmonton Net-Zero Hydrogen Energy Complex

**FEBRUARY 2022**

You are receiving this information because you are a landowner, occupant, or interest holder near a proposed EPCOR transmission project and we would like your input.

This project involves a proposed new transmission line in northeast Edmonton to interconnect Air Products' proposed new net-zero hydrogen production facility to the Clover Bar Substation.

## PROJECT DETAILS

To support Air Products' proposed new net-zero hydrogen production facility, EPCOR is proposing to construct a new 240 kilovolt (kV) single circuit, above-ground transmission line from the existing EPCOR owned Clover Bar Substation to a proposed new substation which will be owned and operated by Air Products.

The new transmission line will connect the proposed Air Products' substation to the electrical system.

### The proposed project includes:

- Constructing approximately four kilometers (km) of above-ground 240 kV transmission line from the Clover Bar Substation, located at 1515 – 130 Avenue to a proposed customer owned substation within the Air Products' site located in the Clover Bar Area;
- Adding two 240 kV circuit breakers, associated switches and equipment within the existing Clover Bar Substation fence line.

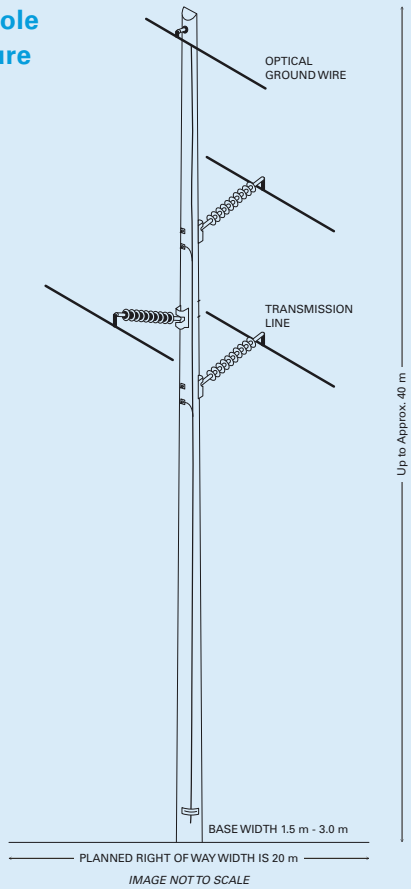
## WHAT WILL THE NEW TRANSMISSION LINE LOOK LIKE?

If approved, the 240 kV transmission line will be built above ground using monopole structures, with heights up to approximately 40 metres (m). Base width can range from 1.5 m to 3.0 m depending on the type of foundation selected through the design process. The poles will be single-circuit, meaning they will have three wires strung across them and an overhead optical ground wire on top. The average distance between structures will be approximately 300 m.

Lattice steel structures, wood poles, or structures with wider bases, and the use of guy-wires may be required at certain locations along the line. These structures may be installed where the line turns corners or has to span larger distances.

Structure details and locations will be dependent on the route approved and the final design.

**Monopole Structure**



## PROPOSED TRANSMISSION LINE ROUTING CONSIDERATIONS

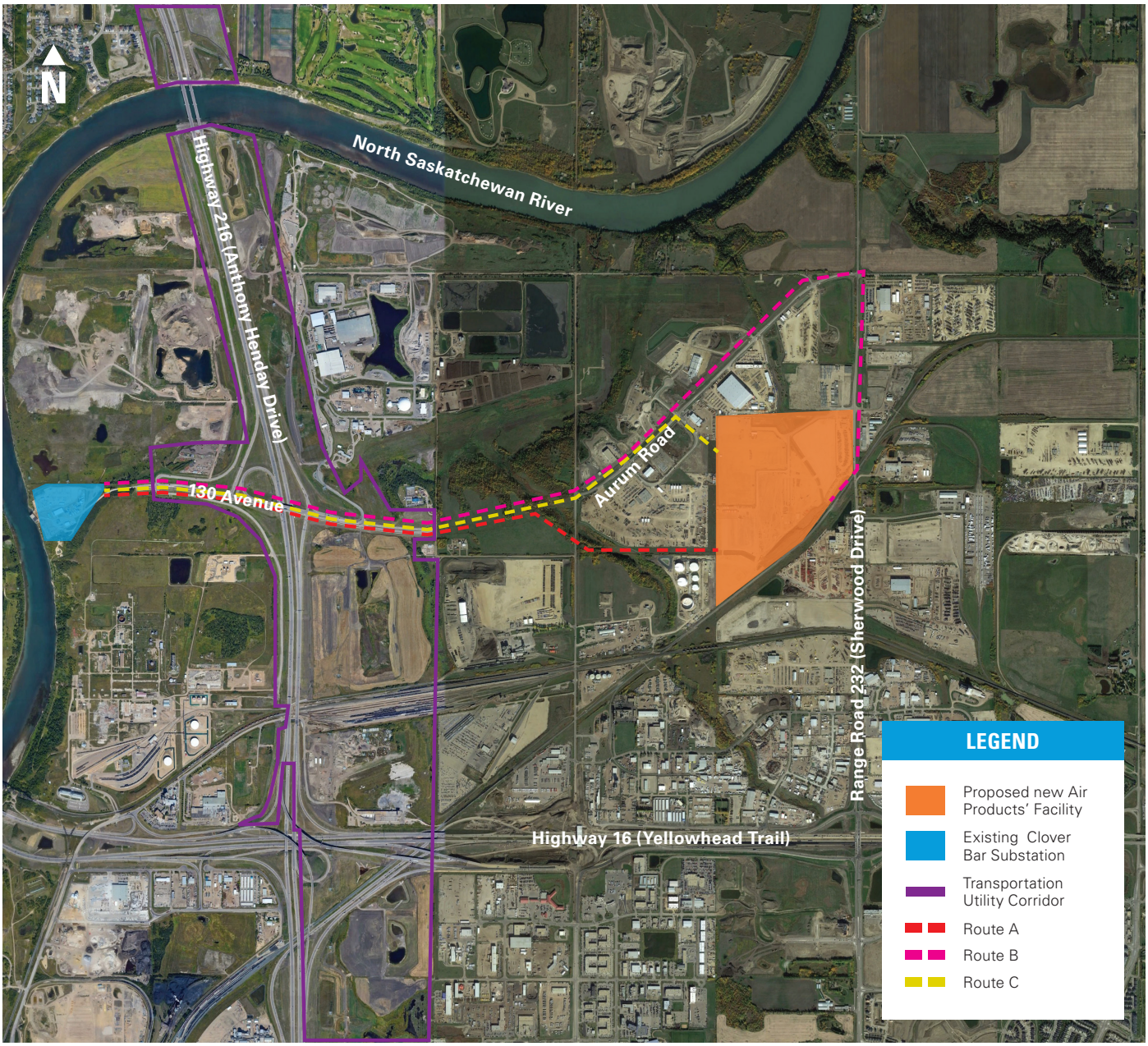
During the process of determining potential routes, EPCOR takes the following factors into consideration in an effort to find routes with the lowest overall impact:

- Residential
- Environmental
- Electrical
- Cost
- Visual
- Special Constraints
- Existing Infrastructure

We compared the relative effects of these factors and identified three potential route options for the proposed transmission line as shown on the map below. We proposed these route options because they generally follow existing linear disturbances such as roadways, designated transportation utility corridors and existing underground utilities.

After receiving input from the public, considering the potential environmental impacts and reviewing technical requirements, EPCOR will submit a Facility Application to the Alberta Utilities Commission (AUC) that identifies a preferred route and an alternative route. If the AUC approves this project, only one of the proposed routes will be constructed between the Clover Bar Substation and the proposed Air Products' substation.

## PRELIMINARY ROUTE OPTIONS MAP

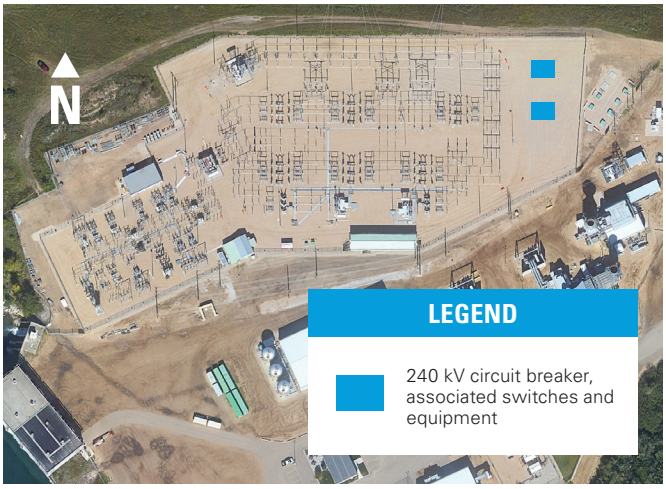


## SUBSTATION ALTERATIONS

To accommodate the proposed transmission line, two new 240 kV circuit breakers, associated switches and equipment will be required at the Clover Bar Substation. All the substation alterations will be within the fence line of the substation; the substation fence line will not change.

A circuit breaker is an automatically operated electrical switch designed to protect an electrical circuit from damage caused by overload or short circuit. Its basic function is to detect a fault condition and interrupt current flow.

## CLOVER BAR SUBSTATION SITE




## TRANSMISSION LINES AND SUBSTATIONS

Transmission lines are like highways, moving high-voltage electricity from generating stations to distribution points (called substations) where the high-voltage electricity gets stepped down to lower voltages.

## PARTICIPATE IN THE PROCESS

We are beginning our public consultation program and invite you to contact us to discuss the project. Over the next few weeks, project team members will contact landowners, occupants, and interest holders who are directly adjacent to the proposed project. We will use a variety of contact methods such as phone calls, email and registered mail. We will also hold a virtual Q & A event and will conduct in-person meetings as required, following COVID-19 health protocols.

Once we have received feedback on the project, we will identify a preferred and alternative route for the transmission line between the Clover Bar Substation and the new substation. In Summer 2022, a project update will be mailed to stakeholders providing the preferred and alternative route. Then we will file a Facility Application with the AUC that will include both a preferred and alternative route.

This project requires two regulatory approvals from the AUC: approval of the Alberta Electric System Operator's Needs Identification Document (NID) and approval of EPCOR's Facility Application. For more information about the AUC, please visit the AUC's website (www.auc.ab.ca). Please also see enclosed AUC brochure: *Participating in the AUC's independent review process*.

You are invited to provide feedback on this project by **April 30, 2022.** Once we have received input from the public, EPCOR will submit a Facility Application to the AUC. Stakeholders can still provide feedback about this project to both EPCOR and the AUC while our Facility Application is being considered.

You will receive a project update in the mail in Summer 2022. Additionally, updates to the project timeline and construction information can be found at **epcor.com/consultation**.

### Please contact us:

**Phone:** 780-412-4040
**Email:** consultation@epcor.com
**Website:** epcor.com/consultation

**In this package, you will also find:**

- the AESO Need Overview
- the AUC brochure: Participating in the AUC's independent review process

## PROPOSED SCHEDULE

You are invited to provide feedback on this project by April 30, 2022. For updates to the project timeline and construction, **please visit epcor.com/consultation.**

| FEBRUARY 2022 | MARCH 2022 | JULY/AUGUST 2022 | AUGUST 2022 | MAY 2023 | WINTER 2023 |
|---|---|---|---|---|---|
| Project Notification mail out; Public consultation activities begin | EPCOR holds a virtual Q & A session | Project Update mail out | EPCOR submits the Facility Application for approval to the AUC | If approved by the AUC, construction begins | Construction complete and facilities operating |

## VIRTUAL Q & A SESSION

This will be an opportunity to provide feedback, ask questions and learn more about our proposed project in your community.

**Date:** Thursday, March 24, 2022
**Time:** 1:00 p.m. – 3 p.m.

Please email consultation@epcor.com by March 17, 2022 to register for this event.

## ABOUT THE ALBERTA ELECTRIC SYSTEM OPERATOR (AESO)

The AESO is an independent, not-for-profit organization responsible for the safe, reliable and economic planning and operation of the provincial transmission grid. For more information about why this project is needed, please refer to the AESO's Need Overview included with this package, or visit www.aeso.ca. If you have any questions or concerns about the need for this project or the proposed transmission development to meet the need, you may contact the AESO directly.

You can also make your questions or concerns known to an EPCOR representative who will collect your personal information for the purpose of addressing your questions and/or concerns to the AESO. This process may include disclosure of your personal information to the AESO.

### Alberta Electric System Operator (AESO)

**Phone:** 1-888-866-2959
**Email:** stakeholder.relations@aeso.ca
**Website:** www.aeso.ca

## ABOUT THE ALBERTA UTILITIES COMMISSION (AUC)

Alberta's electrical system is regulated by the AUC. The AUC is an independent quasi-judicial agency that ensures that the delivery of Alberta's utility services takes place in a manner that is fair, responsible and in the public interest. The AUC must approve this project before EPCOR can begin work. For more information about how you can participate in the regulatory process, please refer to the enclosed AUC brochure, *Participating in the AUC's independent review process*, or visit the AUC website: www.auc.ab.ca

### Contact the AUC

**Toll-free:** 1-833-511-4282
**Phone:** 310-4282
**Website:** www.auc.ab.ca

EPCOR

## WHAT TO EXPECT DURING THE CONSTRUCTION PROCESS

### Construction Noise

The work will create typical noise associated with construction. We will comply with the City of Edmonton's Community Standards Bylaw for Noise Control. If it's necessary to temporarily exceed acceptable noise levels, we will work with the City of Edmonton to obtain the necessary permits.

### Hours of Construction

As we proceed in finalizing the detailed work schedule, we will provide more information. Our hours of operation will comply with the City of Edmonton bylaws.

### Road Closures

Periodic lane closures may be required to complete this work. Signage will be used to detour traffic around the worksite. All road closures and detours will meet Provincial and Federal transportation requirements.

### Power Supply

EPCOR will notify you in advance if any power outages are required to support the construction activities. Notification is intended to support outage preparation for your household or business.

### Work Space

All work areas will be safe and secure. All construction activities will be in accordance with the City of Edmonton bylaws, Alberta Occupational Health and Safety requirements and EPCOR's strict health, safety and environment program.

## WE WOULD LIKE YOUR INPUT

### Contact us

EPCOR believes in listening to and engaging stakeholders. Community input and involvement is an important part of our decision-making. We believe in working towards solutions together and consulting with the public on initiatives. **If you have any questions or would like to provide input on the project, please contact us:**

**Call:** 780-412-4040
**Email:** consultation@epcor.com
**Website:** epcor.com/consultation

If you would like to learn more about the new Air Products' substation project, please contact Air Products at:

Call: 403-836-6495
Email: LAYTEP@airproducts.com
Website: https://www.airproducts.com/campaigns/alberta-net-zero-hydrogen-complex

Consultation for the planned new substation will be completed by Air Products who will own and operate the new facility.