

# Need for the West Edmonton Transmission Upgrade Project in the City of Edmonton



## FAST FACT

**Alberta's electric transmission system** comprises the towers, wires and related equipment that are a part of moving electricity from where it is generated to where it is used.

*EPCOR Distribution and Transmission Inc. (EPCOR) has applied to the Alberta Electric System Operator (AESO) for transmission system access to improve the reliability of the power system in the Edmonton area. EPCOR's request can be met by the following solution:*

### > PROPOSED SOLUTION

- Add approximately 11 kilometres of 72 kilovolt (kV) transmission line from the Poundmaker substation to the Meadowlark substation
- Upgrade the existing Poundmaker substation, including adding one 240/72 kV transformer, one 240 kV circuit breaker, one 72 kV circuit breaker and associated equipment
- Modify the existing Meadowlark substation, including adding one 72 kV circuit breaker and associated equipment
- Upgrade the existing Garneau substation, including replacing three existing 72/14.4 kV transformers with three 72/14.4 kV transformers of higher capacity

### > NEXT STEPS

- The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need in early 2017.
- The AESO's needs identification document (NID) application will be available on the AESO's website at [www.aeso.ca/nid](http://www.aeso.ca/nid) 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

### > EPCOR:

- Is the transmission facility owner in the City of Edmonton
- Is responsible for detailed siting and routing, constructing, operating and maintaining the associated transmission facilities
- Is regulated by the AUC and must apply to the AUC for approval of its transmission facilities applications

### > CONTACT US


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.

**Alberta Electric System Operator  
Marina Lakhani**

*AESO Stakeholder Relations*

[stakeholder.relations@aeso.ca](mailto:stakeholder.relations@aeso.ca)  
**1-888-866-2959**

2500, 330-5th Avenue SW  
Calgary, AB T2P 0L4  
Phone: 403-539-2450  
Fax: 403-539-2949

[www.aeso.ca](http://www.aeso.ca)  
[www.poweringalberta.ca](http://www.poweringalberta.ca)  
 @theaeso

### > WHO IS THE AESO?

The Alberta Electric System Operator (AESO) is a not-for-profit organization with no financial interest or investment of any kind in the power industry. We plan and operate Alberta's electricity grid and wholesale electricity market safely, reliably and in the public interest of all Albertans.