

# South and West of Edmonton

## Transmission System Development

### Project update

*The Alberta Electric System Operator (AESO) has updated information on the South and West Edmonton project.*

In 2011, the AESO identified the need to reinforce the transmission system south and west of Edmonton to meet the growing demand for electricity from residential, commercial and industrial growth in the area.

The AESO filed the South and West Edmonton Area Transmission Reinforcement Needs Identification Document (NID) with the Alberta Utilities Commission (AUC) on December 14, 2012, by Application No. 1609123. The AUC is reviewing the NID and recently issued a Notice of Application inviting parties to become involved in the process.

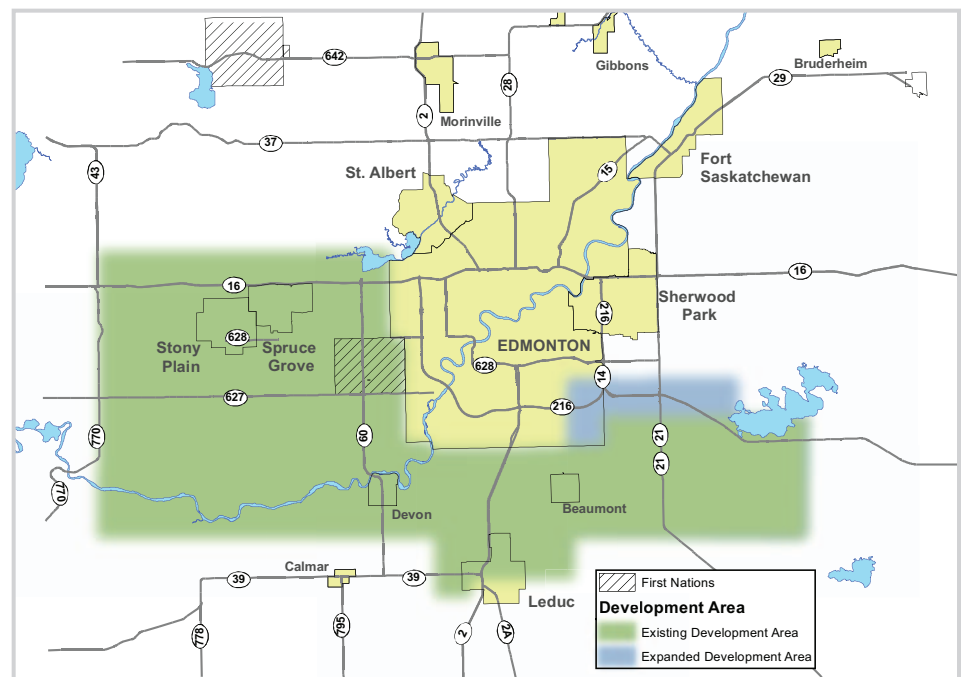
As part of the AESO's ongoing commitment to keep you informed about the South and West Edmonton Area Transmission Reinforcement project, we want to advise potentially affected landowners, residents, occupants and others of where the proposed transmission development may occur.

AltaLink Management Ltd. (AltaLink) is the transmission facility owner in the area and is responsible for detailed siting and

routing of transmission facilities as well as constructing, operating and maintaining the transmission facilities. AltaLink has advised the AESO that AltaLink will be considering areas outside the area originally considered as the potential development area. The new areas being considered are the southeast corner of the City of Edmonton and a section of Highway 14. These new areas may provide opportunities to parallel existing linear disturbances such as the existing Edmonton Transportation/Utility Corridor along Highway 14.

Below is a map showing the original and revised potential development areas. Both areas shown are now the potential development area.

**Approximate areas where potential transmission system developments may occur.**



The map indicates the approximate area where the need for transmission development has been identified. The Transmission Facility Owner will propose specific substation sites and transmission line routes that may be located inside or outside the area shown.

### Proposed transmission developments

The proposed transmission system developments now include:

- A new 240/138 kV substation just north of Leduc
- A new 240/138 kV substation south of Stony Plain
- New 138 kV and 240 kV transmission lines around Stony Plain and Spruce Grove, and south and east of Edmonton
- Potential modifications to the Acheson 305S, Blackmud 155S, Cooking Lake 522S, Devon 14S, Leduc 325S, Nisku 149S, Spruce Grove 595S and Stony Plain 434S substations.

### Needs Identification Document (NID)

A Needs Identification Document describes either the conditions that will affect the operation and performance of the transmission system or the need to improve the efficiency of the transmission system, and indicates how these will be addressed. Siting of facilities and routing of transmission lines are determined later in the Regulatory Process.

# Transmission development approval – a two stage process

## STAGE ONE – AESO IDENTIFIES NEED

- The AESO studies the transmission system, identifies constraints, and plans for expansions, enhancements and reinforcements.
- The AESO submits a Needs Identification Document to the Alberta Utilities Commission (AUC) that includes the recommended transmission development.

## STAGE TWO – ALTALINK PREPARES FACILITIES APPLICATIONS

- AltaLink identifies, plans and consults with stakeholders about the specific routes and locations of facilities recommended by the AESO.
- AltaLink performs detailed engineering and determines facility locations.
- AltaLink submits Facilities Applications to the AUC, which will propose specific routes and locations.



### To learn more about the regulatory process:

Please contact the Alberta Utilities Commission (AUC):

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

EMAIL: [utilitiesconcerns@auc.ab.ca](mailto:utilitiesconcerns@auc.ab.ca)

PHONE: 780-427-4903

(dial 310-0000 before the 10-digit number to be connected toll-free from anywhere in Alberta)

*The AUC must review and provide a decision on both Needs Identification Documents and Facilities Applications.*

## Who is the AESO?

Alberta's transmission system, sometimes referred to as the Alberta Interconnected Electric System (AIES), is planned and operated by the AESO. The transmission system comprises the high-voltage lines, towers and equipment (generally 69 kV and above) that transmit electricity from generators to lower voltage systems that distribute electricity to cities, towns, rural areas and large industrial customers.

The AESO's role is to maintain safe, reliable and economic operation of the AIES. The AESO's planning responsibility includes determining the need for transmission system development and the manner in which that need is met. The AESO is also mandated to facilitate the interconnection of qualified market participants to the AIES. The AESO is regulated by the AUC and must apply to the AUC for approval of its NID.



## We want to hear from you

The AESO appreciates your views on the need for transmission system development and your comments are encouraged. If you have any questions or suggestions regarding the need for the proposed transmission system development in the area south and west of Edmonton or the AESO's application regarding this need, please contact:

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To learn more about the complex electricity industry and its importance to our quality of life and the province's economic well-being, please visit [www.poweringalberta.com](http://www.poweringalberta.com)

