

Electric system improvements near you

New Anthony Henday Substation

You are receiving this newsletter because you are near the proposed New Anthony Henday Substation project and we want your input.

This **substation** development will be located in Sherwood Park, Strathcona County and provide additional power supply to the Kinder Morgan Canada Trans Mountain Edmonton Terminal facility

You may have previously received information from Kinder Morgan Canada/Trans Mountain about their proposed facility upgrades and/or proposed pipeline expansion project. Please contact Kinder Morgan Canada/Trans Mountain if you have questions about their facilities, operations or projects. Their contact information can be found on the back page of this newsletter.

We are providing you with:

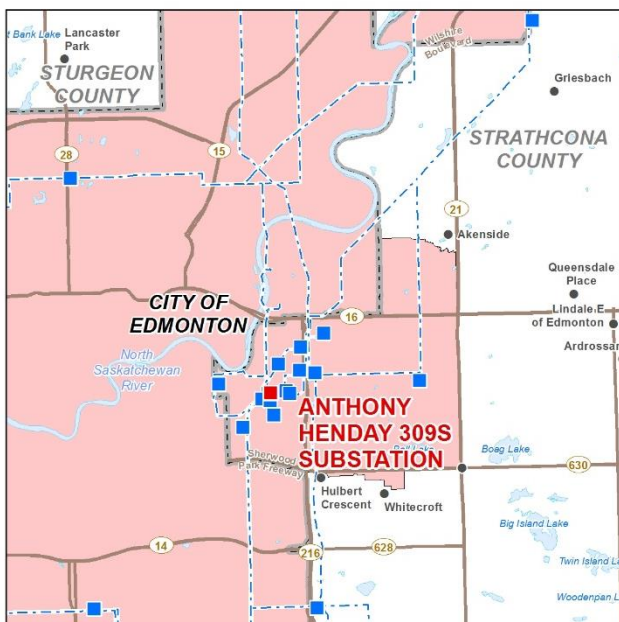
- project details
- map of the proposed project site
- information about how you can provide your input
- the project schedule

AltaLink's transmission system efficiently delivers electricity to 85 per cent of Albertans. Dedicated to meeting the growing need for electricity, AltaLink connects Albertans to renewable, reliable and low-cost power. With a commitment to community and environment, AltaLink is ensuring the transmission system will support Albertans' quality of life for years to come. Learn more at www.altalink.ca.

DEFINITION:

Substation

Substations are the connection points between power lines of varying voltages and contain equipment that controls and protects the flow of power.



CONTACT US

1-877-267-1453
stakeholderrelations@altalink.ca
www.altalink.ca/regionalprojects



The proposed New Anthony Henday Substation will look similar to the one pictured above.

Fibre optic cable

AltaLink's fibre optic cables transmit data signals between substations and are part of a larger telecommunications system in Alberta. This telecommunications system allows AltaLink control centres to actively monitor the electric system, ensuring it runs safely and reliably.



The proposed structures will look similar to the ones pictured above.

Project details

AltaLink is proposing to build a new substation called Anthony Henday located at the Kinder Morgan Canada East Edmonton Terminal (SW-5-53-23-W4M) near the intersection of Baseline Road (101 Ave) and 17th Street in Sherwood Park, Strathcona County.

The Anthony Henday Substation project includes:

- one new 138/4.16 kV (kilovolt) transformer
- one new 138 kV circuit breaker
- one new control building
- one 138 kV single circuit transmission line approximately 190 metres (624 feet) in length
- subsurface or overhead **fibre optic cable**
- a fenced area of approximately 21 x 26 metres (69 x 85 feet)

Substation site location and line connection

When identifying substation site locations, AltaLink takes several factors into consideration in an effort to find sites with a low overall impact. In addition to stakeholder input some of the factors we consider include: agricultural, residential, environmental, visual and cost.

Stakeholder input with respect to the effects listed above is an important part of our planning process. Please let us know what other factors are important to you.

Through discussions with Kinder Morgan Canada, and by assessing the project area, AltaLink identified a potential substation site on Kinder Morgan Canada land, that allows for a short, direct connection to the existing 215L transmission line, has no residential or environmental impacts and will have access from an existing road, resulting in a low overall impact location. The typical structures will look similar to the ones pictured on the left. A detailed photo map (DP1) is included in this package.

The structures will:

- be either steel or wood poles
- be approximately 19-30 metres (62-98 feet) tall
- be approximately two - eight metres (7-26 feet) wide
- have a right-of-way width of approximately 15 metres (49 feet)

Modifications may be required to some of the existing structures to accommodate the proposed project. These details will be confirmed upon completion of detailed engineering, and may include the installation of guy wires that anchor the structures to the ground.

Telecommunications

Telecommunications equipment installations and upgrades are required as part of this project to ensure the safe and reliable operation of the transmission lines. Two telecommunication options are currently being considered. Option A includes routing the fibre optic cable overhead along the proposed new transmission line right-of-way, then routing it below ground to the 731L/865L transmission line, while Option B would result in running the fibre optic cable separately from our proposed transmission line right-of-way. Both of these options are shown on the DP map included in this package. These details will be confirmed upon completion of more detailed engineering.

The chosen fibre optic solution will be used for power line protection and control, and to transmit operational data from the connected facilities through AltaLink's telecommunications system to the Alberta Electric System Operator (AESO). If Option A is chosen, the portion that is routed overhead will also offer transmission lightning protection. Where the fibre optic cable is proposed to be located on private land, a permanent right-of-way will be required.

Electric and Magnetic Fields (EMF)

AltaLink recognizes that people have concerns about exposure to Electric and Magnetic Fields (EMF) and we take those concerns very seriously. Everyone in our society is exposed to EMF from many sources, including:

- power lines and other electrical facilities
- electrical appliances in your home
- building wiring

National and international organizations such as Health Canada and the World Health Organization have been conducting and reviewing research about EMF for more than 40 years. Based on this research, these organizations have not recommended the general public take steps to limit their everyday exposure to EMF from high voltage transmission lines. If you have any questions about EMF please contact us.

Website: www.altalink.ca/emf

Email: emfdialogue@altalink.ca

Toll-free phone number: 1 -866-451-7817

Providing your input

We will contact landowners, residents and occupants near the proposed substation project to gather input and address questions or concerns. After the consultation process is complete we will file an application with the Alberta Utilities Commission (AUC). The AUC will review the application through a process in which stakeholders can participate.

We will notify stakeholders when we file the application and once again when the AUC has reached a decision about the project. To learn more about the AUC process and how you can become involved, please refer to the brochure included in this package titled Public involvement in a proposed utility development.

Anticipated project schedule

Notify and consult with stakeholders	Spring 2016
File application with Alberta Utilities Commission (AUC)	Summer 2016
Start construction if project is approved	Summer/Fall 2018
Construction completed	Early 2019

Although we will attempt to follow the anticipated project schedule, it is subject to change. We will continue to provide you with updated schedule information if required as the project progresses.

Contact us

To learn more about the proposed project, please contact:

ALTALINK

1-877-267-1453 (toll free)

Email: stakeholderrelations@altalink.ca

Website: www.altalink.ca/projects

To learn more about Alberta's electric system and the need for the project, please contact:

ALBERTA ELECTRIC SYSTEM OPERATOR (AESO)

1-888-866-2959

Email: stakeholder.relations@aeso.ca

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 you may contact the AESO directly. You can also make your questions or concerns known to an AltaLink 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.

To learn more about the application and review process, please contact:

ALBERTA UTILITIES COMMISSION (AUC)

780-427-4903 (toll-free by dialing 310-0000 before the number)

Email: consumer-relations@auc.ab.ca

To learn more about Kinder Morgan Canada's proposed Trans Mountain Expansion project, please contact:

TRANS MOUNTAIN EXPANSION PROJECT

1-866-514-6700

Email: info@transmountain.com

www.transmountain.com

PRIVACY COMMITMENT

AltaLink is committed to protecting your privacy. Collected personal information will be protected under AltaLink's Privacy Policy and the Freedom of Information and Protection of Privacy Act. As part of the regulatory process for new transmission projects, AltaLink may provide your personal information to Alberta Utilities Commission (AUC). For more information about how AltaLink protects your personal information, visit our website at www.altalink.ca/privacy or contact us directly via e-mail privacy@altalink.ca or phone at 1-877-267-6760.

INCLUDED IN THIS INFORMATION PACKAGE:

- Project map
- AESO Need Overview Document
- AUC brochure: *Public involvement in a proposed utility development*

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