

# Electric system improvements near you

Intertie Restoration Project – project update

**You are receiving this newsletter because you are near the Intertie Restoration Project and we want to provide you with a project update.**

Thank you for your participation in this project, your input is important to us. We began consulting with stakeholders on this proposed project in September 2018. Throughout our consultation process we've received valuable feedback that has helped us in our project planning.

We are providing the following project information:

- updated project details
- maps of the refined locations
- information about how you can provide your input
- the project schedule

## Background

The Intertie Restoration Project involves electrical system upgrades to restore the intertie **transmission** line, which connects British Columbia and Alberta, to near its originally designed capacity. This existing transmission line is named the 1201L line.

AltaLink has been directed by the Alberta Electric System Operator (AESO) to identify locations for the system upgrades and new equipment and prepare an application for the project.

For information about why this project is needed, please visit the following website: [www.aeso.ca/grid/projects/intertie-restoration](http://www.aeso.ca/grid/projects/intertie-restoration)

## Who is AltaLink?

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](http://www.altalink.ca).

### DEFINITION

## Transmission

Transmission lines make up Alberta's electric highway, linking the places where power is generated to where power is used. Transmission lines transport large amounts of power over long distances across the province. The transmission system connects diverse sources of power generation including wind, high-efficiency coal, natural gas and more.

## CONTACT US

1-877-269-5903

[stakeholderrelations@altalink.ca](mailto:stakeholderrelations@altalink.ca)

[www.altalink.ca/projects](http://www.altalink.ca/projects)



DEFINITION

**Substation**

Substations are the connection points between power lines of varying voltages and contain equipment that controls and protects the flow of power. Substations include transformers that step down or step up the voltage so power can be transmitted through transmission lines or distributed to your community through distribution lines.

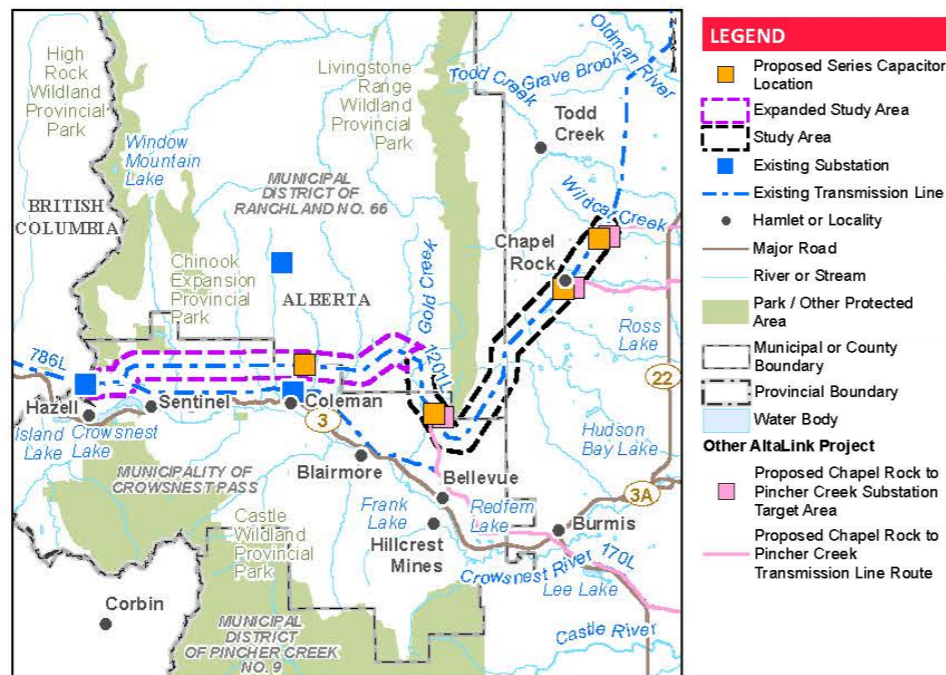


Example of a series capacitor

**Project overview**

The proposed Intertie Restoration Project is located in the areas of Rocky View County, the Municipal District of Ranchland, the Municipal District of Pincher Creek and the Municipality of Crowsnest Pass. If approved, the project involves:

- adding new equipment along the existing 1201L transmission line
- adding new equipment and expanding the fenceline at the Bennett Substation



**New series capacitor - updated sites**

New equipment, called a series capacitor, will help power flow through the 1201L transmission line. In the package that we mailed in September 2018 we proposed five potential sites for the series capacitor.

Two of those sites have been removed from consideration and one new site has been added, so we are now proposing four potential locations that we would like to get your input on.

If the project is approved, only one series capacitor site will be built within a fenced area approximately 100 metres wide by 100 metres in length.

**PREVIOUSLY CONSIDERED SITES**

Three of the previously proposed series capacitor sites are moving forward because they align with the proposed substation locations included in the Chapel Rock to Pincher Creek Area Transmission Development. The three proposed sites that are moving forward are:

- Chapel Rock Road site (NW-31-8-2-W5M)
- Wildcat Creek site (NE-8-9-2-W5M)
- Crowsnest Pass site (SW-8-8-3-W5M)

Locating the series capacitor at the same location as the new Chapel Rock Substation allows us to use the same access roads and telecommunication infrastructure, minimizing area disturbances.

Since we are moving forward with the three proposed options above, we have decided to remove the two following sites from consideration:

- West of the North Burmis Road (SE-26-8-3-W5M)
- Northern Crowsnest Pass option (SW-8-8-3-W5M)

**NEW PROPOSED SITE**

In our September 2018 newsletter, we told you that the AESO extended the project study area as far west as the Alberta/British Columbia border.

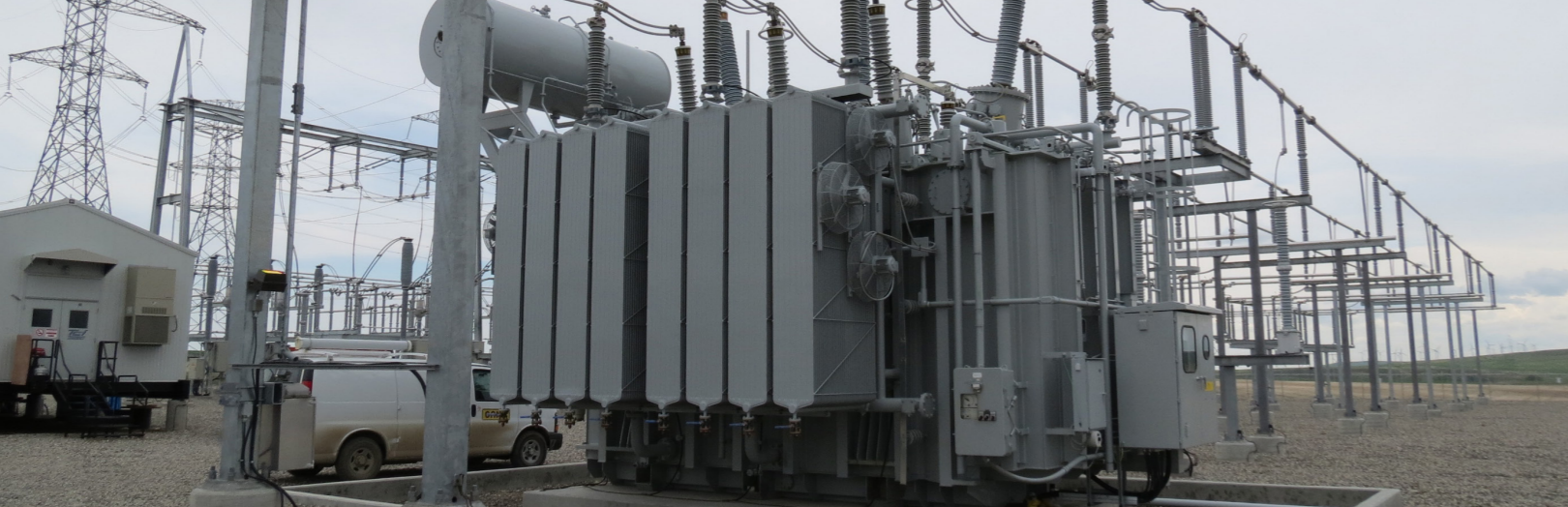
Based on our assessment of this area since then, we are now proposing a standalone series capacitor site located north of Coleman and to the west of Highway 40, where 1201L crosses the highway (SE-21-8-4-W5M).

Although this site is not located at the same location of one of the proposed Chapel Rock Substation sites, it is a viable option for us to consider in the area as we continue to study terrain and environmental and cost considerations related to the nearby Bellevue site.

**RELATED PROJECT IN THE AREA**

You may also receive information about a related project in the area called the Chapel Rock to Pincher Creek Area Transmission Development.

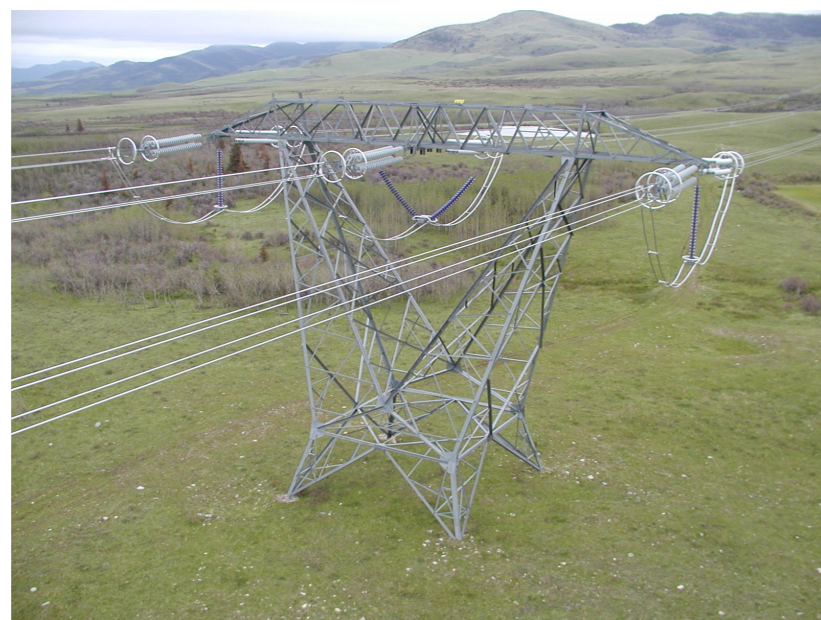
The enclosed maps reference the potential substation and transmission line locations for that project. You can find more information about the Chapel Rock to Pincher Creek Area Transmission Development at [www.altalink.ca/chapelrock](http://www.altalink.ca/chapelrock).



### New: 500 kV structure requirements

After further engineering we have determined that to accommodate the connection of the new substation to the existing 1201L, one new 500 kV structure is required at three of the four proposed sites for the new series capacitor. The additional structure is not needed at the Coleman area site.

The proposed structure will be approximately 30-40 metres tall and have a base of approximately 11x11 metres up to 18x18 metres. It will look similar to the structure pictured below.



### Update: Telecommunication requirements

Based on further engineering, we are no longer proposing a telecommunications tower at the new series capacitor site.

Instead, we're proposing to place an optical fibre line within the road allowance, either above or below ground. You can see the location and orientation of these lines on the maps included in this package.

### ONGOING SURVEY ACTIVITIES

#### Environmental surveys

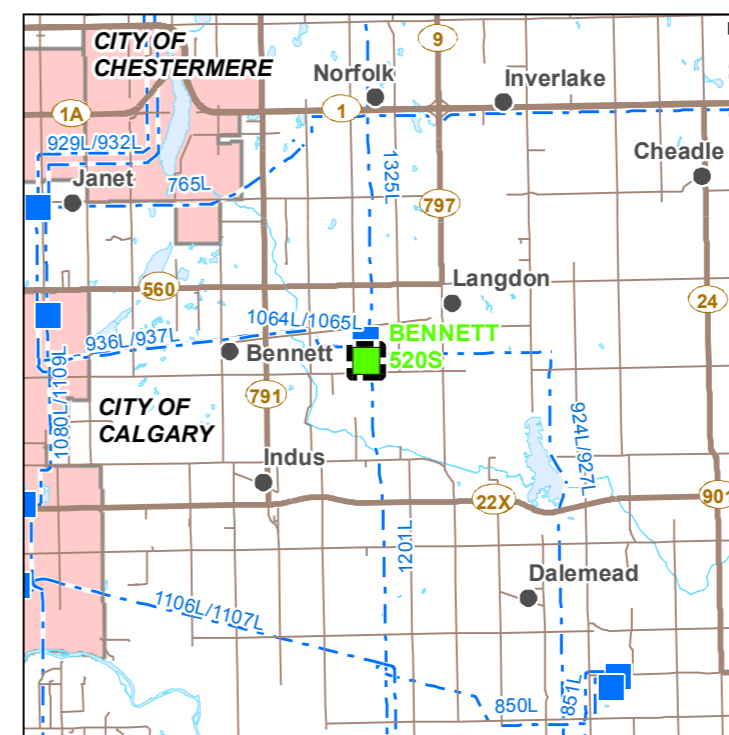
From now until fall 2019, AltaLink will be conducting seasonal environmental surveys near the proposed sites for this project. The surveys are conducted by helicopter or on foot. Ground based surveys on private land will only occur after landowner permission is received. When conducting all surveys we work to minimize disruption to residences, area users, livestock and wildlife.

#### Geotechnical surveys

AltaLink will be conducting geotechnical drilling to perform soil investigation at various locations within the project area as required. Where these activities require access to private property, an AltaLink representative will be in contact with you.

### Upgrades to the existing Bennett Substation

The Bennett Substation is located southwest of Langdon, in SW-16-23-27-W4M. To make room for new equipment, the substation fence will be expanded by approximately 12x118 metres to the north and 53x72 metres to the west. This proposed work has not changed.



### LEGEND

- Potential Substation Upgrade
- Existing Substation
- Existing Transmission Line
- Hamlet or Locality
- Major Road
- Minor Road
- Urban Area
- Water Body



An aerial view of the Bennett Substation



## PRIVACY COMMITMENT

AltaLink is committed to protecting your privacy. Collected personal information will be protected under AltaLink's Privacy Policy and the Personal Information Protection 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](http://www.altalink.ca/privacy) or contact us directly via e-mail at [privacy@altalink.ca](mailto:privacy@altalink.ca) or phone at 1-877-267-6760.

## How to provide your input

We want to hear your thoughts and concerns to help us understand what is important to you as we move forward with the project.

### PLEASE JOIN US AT OUR PUBLIC EVENTS

Members of our consultation, environment, electrical effects and siting teams will be available at three open houses to share information, gather your input and respond to any questions or concerns you might have.

**TUESDAY JUNE 25, 2019**

**5 - 8 PM**

MDM Community Centre  
2802 222 Street - Bellevue, AB

**WEDNESDAY JUNE 26, 2019**

**5 - 8 PM**

Lundbreck Community Hall  
304 1 Street - Lundbreck, AB

**THURSDAY JUNE 27, 2019**

**5 - 8 PM**

Cowley Town Hall  
518 Railway Ave - Cowley, AB

### PARTICIPATE IN A ONE-ON-ONE CONSULTATION

We will contact all occupants, residents and landowners who are on or directly adjacent to the refined locations to gather input through one-on-one consultations.

During the one-on-one process we will document the information you provide and respond to any questions or concerns you may have about the project.

### CONTACT US DIRECTLY

You can contact us by telephone, email, mail or through our website. Our contact information is on the front and back pages of this newsletter.

## Next steps

After our consultation process is complete, AltaLink will file a **Facilities Application** with the **Alberta Utilities Commission (AUC)**. A summary of stakeholder comments will be incorporated into this application. We will let you know when we file an application with the AUC.

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	Fall 2018 to Summer 2019
File application with Alberta Utilities Commission (AUC)	Fall 2019
Start construction if project is approved	Spring 2021
Complete construction	2023

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

## 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 and 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.

## DEFINITIONS

### Facilities Application

AltaLink submits Facilities Applications to the AUC for review. A Facilities Application describes how AltaLink proposes to meet the requirements for a transmission project. It includes routing details, results of the participant involvement program and technical details. Facilities Applications must be approved by the AUC before construction can begin.

### Alberta Utilities Commission

The Alberta Utilities Commission (AUC) ensures the fair and responsible delivery of Alberta's utility services. AltaLink submits applications for new transmission projects to the AUC and the AUC reviews them in a public process.

INCLUDED IN THIS  
INFORMATION  
PACKAGE:

- Project maps
- AUC brochure: *Public involvement in a proposed utility development*



## Contact us

*To learn more about the proposed project please contact:*

### **ALTALINK**

1-877-269-5903 (toll-free)

Email: [stakeholderrelations@altalink.ca](mailto:stakeholderrelations@altalink.ca)

Website: [www.altalink.ca/projects](http://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 (toll-free)

Email: [stakeholder.relations@aeso.ca](mailto: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. If you have any questions or concerns about the need for this project you may contact the AESO directly. You can 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

(You can call toll-free by dialing 310-0000 before the number).

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



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*Let's talk transmission*



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