NEWSLETTER
TO THE COMMUNITY

Chapel Rock to Pincher Creek Area Transmission Development

PROJECT UPDATES
IN YOUR AREA

RELATED PROJECT IN THE AREA
You may also receive information about a new, related project called the Intertie Restoration Project. For more information on that project, or any other projects in the area, please visit **www.altalink/projects.**

Chapel Rock to Pincher Creek Area Transmission Development

We have started to develop a new transmission project in your area – the Chapel Rock to Pincher Creek Area Transmission Development – and we want your input.

This newsletter will help you understand what we are proposing to do, what the proposed structures may look like and where they may be placed. We have also included maps to show the project area in greater detail.

We were directed by the Alberta Electric System Operator (AESO) to identify potential locations for new electricity facilities and prepare an application for this project. We are in the early stages of our consultation process and have not made any final decisions.

What about previous versions of this project? How is this different?

The Castle Rock Ridge to Chapel Rock Transmission Project, which included a double circuit 240 kV transmission line, began in 2014 and we had anticipated filing an application with the Alberta Utilities Commission (AUC) in late 2015. We stopped all work on the project in December 2017 as we were not directed by the AESO to proceed.

We have now been directed by the AESO to prepare an application for a new project in the Pincher Creek area that will be called the Chapel Rock to Pincher Creek Area Transmission Development. This new project has a few differences, including keeping pace with the development of renewable generation in the area and different technical requirements. The AESO has also recently shared with you their plans to pursue only one of the two 240 kV circuits (lines) required at this time.

As a result there is an opportunity to look at different transmission line routes and new structure types than were previously considered.

IMPORTANT

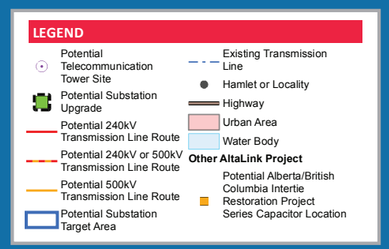
If you have any questions regarding the need for this project, please contact the AESO directly at **stakeholder.relations@aeso.ca** or **1.888.866.2959**

PROJECT DETAILS

A new 240 kV transmission line, between 35 and 47 km long, connecting a new proposed substation to be called the Chapel Rock Substation, to either the existing Goose Lake Substation or Castle Rock Ridge Substation, both located north of Pincher Creek.

The new proposed Chapel Rock Substation will connect the new transmission line with the existing 1201L transmission line, which is the Alberta/British Columbia intertie.

To connect the Chapel Rock Substation and 1201L transmission line, some modifications to the existing 500 kV structures or a new 500 kV line up to 13 km long may be required.



Keeping pace with wind

Renewable generation development in southwestern Alberta continues to grow. The anticipated in-service date for this transmission project is 2022-23, according to the information available today which may change based on generation development.

For more information about the need for this project please visit the AESO's website at: **www.aeso.ca/grid/projects/SATR-CRPC**

Community workshops: What we heard

In April 2018, AltaLink held community workshops to discuss some changes to the project. At this time, the AESO required two 240 kV circuits to meet the need for the area.

We received valuable feedback about the potential 240 kV options during our discussions with stakeholders. We also received feedback through our online workshop. Thank you to everyone who was able to provide feedback. Here is a summary of what we heard.

STRUCTURE PLACEMENT

Participants indicated they generally prefer locating structures within road allowances rather than on private property because of the reduced potential for agricultural and environmental impacts. There was also a preference to locate transmission structures along quarter lines if structures are placed on private property.

STRUCTURE TYPES

Workshop participants indicated they generally prefer monopole structures because they can be placed within road allowance, require less land and right-of-way and are viewed as the most visually appealing of the structures under consideration.

A complete report of what we heard during our community workshops can be found at: **www.altalink.ca/chapelrock.**

Progress we've made

Since the workshops in April 2018, the AESO has revised the need for the project to include only one new 240 kV transmission line.

We've used stakeholder feedback and further analysis from the technical and engineering perspectives to propose both private property and road allowance options for the new facilities.

We have identified potential transmission line routes, which are shown on the attached maps. A brief overview of the structure types available for this project are shown below. Visual renderings will be available on our website and at our public events in October.

Please note, all dimensions are approximate and subject to change with further detailed engineering. Guy wires may be required at structures where the transmission line changes direction.

MODIFICATIONS TO 1201L TRANSMISSION LINE

To connect the proposed Chapel Rock Substation and 1201L transmission line, some modifications to the existing 500 kV structures or additional 500 kV structures may be required.

If new structures are required they would likely be twinned single circuit 500 kV guyed V structures, like those pictured below. The amount of modifications and new structures required are dependent on the location of the proposed Chapel Rock Substation.

AltaLink has been directed to work on a separate project in the area called the Intertie Restoration Project, which involves modifications to 1201L. If you are impacted by this project, you will receive information in a separate mailout.

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.

STRUCTURE TYPES AVAILABLE FOR THIS PROJECT

SINGLE CIRCUIT MONOPOLE

Approximate height	30 - 36 m
Approximate ROW width: Within road allowance (private property land requirements) On private property	 11 m 22 m
Average span length	150m - 250m
Can be placed within road allowance	Yes
Can be placed on private property	Yes

SINGLE CIRCUIT H-FRAME

Approximate height	27 - 30 m
Approximate ROW width: Within road allowance (private property land requirements) On private property	 20 m 35 m
Average span length	150m - 250m
Can be placed within road allowance	Partially
Can be placed on private property	Yes

TWINNED SINGLE CIRCUIT 500 kV GUYED V

Approximate height	26 - 40 m
Approximate ROW width	120 m
Average span length	300 m
Can be placed within road allowance	No
Can be placed on private property	Yes

Guy wires are required on all structures and will extend approximately 12-18 m from structure

Substation work

NEW CHAPEL ROCK SUBSTATION AND TELECOMMUNICATIONS TOWER

The new proposed Chapel Rock Substation will connect the new 240 kV transmission line with the existing 1201L transmission line, which is the Alberta/British Columbia intertie. The substation site will be located northwest of Pincher Creek and be approximately 165 by 215 metres in size. You will find potential locations for the new substation on the maps included with this newsletter.

A new telecommunications tower is required inside or near the Chapel Rock Substation. Telecommunication towers support equipment that transmits data to our system control centre, allowing us to monitor and operate the electric system in the area. The tower:

- will be approximately 30 to 80 metres tall depending on the landscape of the location selected
- will be a self supporting or guyed steel lattice structure
- may be painted and have aircraft lighting to comply with Transport Canada's requirements

SUBSTATION

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

EXISTING SUBSTATIONS

There are two potential substations that the new transmission line could connect to – Castle Rock Ridge or Goose Lake. Both of these substations are located north of Pincher Creek on property owned by AltaLink.

- **Castle Rock Ridge Substation** – To accommodate the equipment needed to connect the new transmission line, the substation would be expanded approximately 35 metres by 90 metres to the east. This expansion will only occur in the event the transmission line connects to this substation.
- **Goose Lake Substation** – This substation will be expanded by approximately 65 metres by 85 metres to accommodate new equipment that will help regulate the electric system. Should the proposed transmission line connect to this substation, no additional expansion will be required.

The Chapel Rock Substation will look similar to the one pictured here.

Telecom tower.

How to provide feedback

PUBLIC EVENTS

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 one of our public events in the project area.

Members of our consultation, environment, electrical effects and siting teams will be available to discuss the project during the sessions. The AESO will also be available to answer questions about the need for this transmission development.

TUE OCTOBER 23, 2018 | **5 - 8 PM**
Heritage Inn & Convention Centre
919 Waterton Ave - Pincher Creek AB

WED OCTOBER 24, 2018 | **5 - 8 PM**
Cowley Hall
518 Railway Ave - Cowley, AB

THU OCTOBER 25, 2018 | **5 - 8 PM**
Lundbreck Community Hall
304 1 Street - Lundbreck, AB

ATTENTION

If you are unable to attend the public events, you can call 1-877-269-5903 (toll-free) to book a one-on-one consultation.

Next steps

Throughout this first phase of consultation we will gather your feedback about structure types and placement, as well as substation locations. While we will pursue transmission line routes based on your input, there are many factors we have to take into consideration including cost, engineering and environmental factors. We are always available to discuss and provide the reasoning behind our transmission line routes.

Following this phase of consultation, we will refine our transmission line routes and will contact occupants, residents, and owners who are on or directly adjacent to the proposed substation locations and the proposed transmission line routes to gather input through one-on-one consultations.

PROJECT SCHEDULE*

Notify and consult with stakeholders:
Fall 2018 to Summer 2019

File application with the AUC:
Fall 2019

Start construction if project is approved:
Fall 2020

Anticipated construction completion:
2022-2023

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

THE APPLICATION PROCESS

We are committed to working with the public to gather and respond to stakeholder input and concerns. A summary of stakeholder comments will be incorporated into the Facilities Application we submit to the AUC for approval. At this time, it is anticipated that the Facilities Application will be filed concurrently with the AESO's need application.

The AUC will review the application through a process in which stakeholders can participate. We will notify stakeholders when we file the application and again once the AUC has reached a decision about the project. If the project is approved by the AUC, typically only one transmission line route will be built. 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*.

DID YOU KNOW?

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.

RADIO FREQUENCY (RF)

Telecommunication towers use Radio Frequency (RF) signals to transmit and receive information. The point-to-point signals travel along a focused path at low power levels and are well within recommended safety limits. A licensed telecommunications tower will not impact any other licensed telecommunication frequencies such as cellular, over-the-air television, satellite, radio, or GPS.

The telecommunication tower described in this notification will be installed and operated on an ongoing basis so as to comply with Health Canada's Safety Code 6, which defines safe levels of RF exposure. To ensure the structural adequacy of the tower, the design and installation will follow industry standards and sound engineering practices.

For general information relating to telecommunications systems, please contact Spectrum, Information Technologies And Telecommunications at www.ic.gc.ca/towers | 1.800.267.9401 (toll-free in Canada)

If you have any questions about EMF or RF please contact us:
visit **www.altalink.ca/emf** | email: **emfdialogue@altalink.ca** | phone: **1.866.451.7817 (toll-free)**

Privacy Commitment

AltaLink is committed to protecting your privacy. Your personal information is collected and will be protected under AltaLink's Privacy Policy and Alberta's Personal Information Protection Act. As part of the regulatory process for new transmission projects, AltaLink may provide your personal information to the AUC.

For more information about how AltaLink protects your personal information, visit our website at **www.altalink.ca/privacy** or contact us directly via email **privacy@altalink.ca** or phone at **1-877-267-6760**.

Contact us

To learn more about the proposed Chapel Rock to Pincher Creek Area Transmission Development, please contact:

ALTALINK

1-877-267-1453 (toll-free)
stakeholderrelations@altalink.ca

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**.

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

ALBERTA UTILITIES COMMISSION (AUC)

780-427-4903 (toll-free 310-0000 before the number)
utilitiesconcerns@auc.ab.ca

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.

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)
stakeholder.relations@aeso.ca

The Alberta Electric System Operator (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 visit www.aeso.ca/grid/projects/SATR-CRPC. If you have any questions or concerns about the need for this project you may contact the AESO directly. You can make your 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.

INCLUDED IN THIS INFORMATION PACKAGE:

- **Project maps**
- **AUC brochure:**
  Public involvement in a proposed utility development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A BERKSHIRE HATHAWAY ENERGY COMPANY