

APPENDIX C - AESO PIP SUMMARY

Whitla Wind Facility Connection

PIP Summary

1.0 Participant Involvement Program (PIP)

1.1 PIP Design

The AESO's Participant Involvement Program (PIP) is designed to notify the parties notified in the transmission facility owner's (TFO's) PIP and any other parties that the AESO determines may have an interest in the needs identification document, including, but not limited to:

- i. occupants, landowners or residents;
- ii. local authorities, agencies and government which have responsibilities related to electric transmission line development;
- iii. First Nations and Métis; and
- iv. market participants

(collectively, Stakeholders).

The AESO's PIP has been conducted in accordance with the requirements of Section 6.2.1, NID27 and Appendix A2 of the current Alberta Utilities Commission Rule 007 (AUC Rule 007), effective April 2, 2018.

From September 2017 to May 2018, the AESO conducted a PIP to assist in preparing its *Whitla Wind Facility Connection Needs Identification Document* (NID). The AESO directed the TFO, in this case AltaLink Management Ltd., in its capacity as general partner of AltaLink, L.P., to assist the AESO in providing notification as part of the AESO's PIP.

1.2 Stakeholder Notification

The AESO developed a one-page AESO Need Overview document that notified Stakeholders of the following items:

- a description of the need for development;
- a description of the AESO's preferred option to respond to the system access service request;
- identification of the general area where facilities could be installed to implement the AESO's preferred option to respond to the system access service request;
- the AESO's contact information, including telephone, email and website, for further information; and
- the AESO's next steps, including the AESO's intention to apply to the Alberta Utilities Commission (Commission) for approval of the need.

A copy of the Need Overview was posted to the AESO website at <https://www.aeso.ca/grid/projects/capital-power-whitla-wind-facility-connection/> and a notice was published in the AESO Stakeholder Newsletter on September 26, 2017. Copies of the Need Overview posting and the AESO Stakeholder Newsletter notice have been included as Attachments 1 and 2, respectively. The Need Overview was also included with the TFO's project-specific information packages that were distributed to Stakeholders, as further described below.

1.2.1 Stakeholders Notified in the TFO's PIP

The TFO has advised the AESO that its PIP included notification to Stakeholders within 800 m of the proposed transmission line and substation modification, in accordance with AUC Rule 007.

The TFO notification included distributing Round 1 and Round 2 project-specific information packages (PSIPs). After the Round 1 PSIP distribution, the TFO refined its proposed transmission line routes. The Stakeholders that remained within 800 m of proposed transmission line routes and substation modification were included in the Round 2 PSIP distribution.

Round 1

The TFO's Round 1 PSIP included the TFO's Volume 1 project newsletter and the AESO's Need Overview. The TFO's Round 1 PSIP was distributed between September 20, 2017 and October 26, 2017. Attachment 3 includes the TFO's Volume 1 project newsletter. The TFO's Volume 1 project newsletter and the AESO Need Overview were also posted on the TFO's project-specific webpage on September 20, 2017 at <http://www.altalink.ca/projects/view/280/capital-power-whitla-wind-facility-connection>

The TFO's Round 1 was distributed to a total of 97 Stakeholders, of which 62 were classified as private or individual landowners. The other 35 notified Stakeholders and the TFO's rationale for their inclusion in the PIP are listed in Table 1.

Table 1: Summary of Notified Agency and Industry Stakeholders

Stakeholder	TFO's Rationale for Inclusion in the PIP
998713 Canada Inc.	Wind company with interest in the notification area
Alberta Culture and Tourism – Land Use Planning	Provincial requirements
Alberta Environment and Parks - Fish and Wildlife	Provincial requirements
Alberta Environment and Parks – Land Management	Provincial requirements
Alberta Environment and Parks – Regional Approvals	Provincial requirements
Alberta Transportation	Provincial requirements
Chinook Energy Inc.	Oil and Gas facility owner in the notification area
County of Forty Mile No. 8	Municipal government representative (land use authority)
Craft Oil Ltd.	Oil and Gas facility owner in the notification area

Stakeholder	TFO's Rationale for Inclusion in the PIP
Ducks Unlimited	Special Interest Group
Ember Resources Inc.	Oil and Gas facility owner in the notification area
Equus REA Ltd. – South Area Office	Distribution Facility Owner in the notification area
Forent Energy Ltd.	Oil and Gas Facility Owner in the notification area
FortisAlberta Inc.	Distribution Facility Owner in the notification area
Forty Mile Gas Co-op Ltd.	Oil and Gas Facility Owner in the notification area
Manitok Energy Inc.	Oil and Gas Facility Owner in the notification area
MLA for Cypress-Medicine Hat	Provincial government representative for the area
MLA for Medicine Hat	Provincial government representative for the area
NAV CANADA – AIS Data Collection Unit and Land Use Office	Federal requirements
Office of the Farmers' Advocate	Special Interest Group
Paramount Resources Ltd.	Oil and Gas facility owner in the notification area
Petrocapita GP Ltd.	Oil and Gas facility owner in the notification area
Pine Cliff Energy Ltd.	Oil and Gas facility owner in the notification area
Regent Resources Ltd. c/o Ernst & Young Inc.	Oil and Gas facility owner in the notification area
Renewable Energy Systems Canada Ltd.	Wind company with interest in the notification area
Rogers Communications – Alberta South	Telecommunication Facility Owner in the notification area
Shaw Communications Inc.	Telecommunication Facility Owner in the notification area
Suncor Energy Inc.	Wind company with interest in the notification area
Telus Communication Inc.	Telecommunication Facility Owner in the notification area
Temporis Developments	Industrial Facility Owner in the notification area
Teric Power Ltd.	Industrial Facility Owner in the notification area
Tournament Exploration Ltd. c/o Rainmount Energy Corp. c/o Manitok Energy Inc.	Oil and Gas Facility Owner in the notification area
Blood Tribe	First Nation, Provincial Requirement
Piikani Nation	First Nation, Provincial Requirement
Siksika Nation	First Nation, Provincial Requirement

Round 2

Attachment 4 includes the TFO's Volume 2 project newsletter, which was included in the TFO's Round 2 PSIP that was distributed to the Stakeholders described above between February 13, 2018 and February 27, 2018. The AESO Need Overview was not included in the TFO's Round 2 PSIP. The TFO's Volume 2 project newsletter was also posted on the TFO's project-specific webpage on February 13, 2018 at <http://www.altalink.ca/projects/view/280/capital-power-whitla-wind-facility-connection>

The TFO's Round 2 PSIP was distributed to a total of 68 of the 97 Stakeholders that received the TFO's Round 1 PSIP. Thirty-three of these Stakeholders were classified as private or individual landowners. The same 35 Stakeholders listed in Table 1 that received the TFO's Round 1 PSIP also received the Round 2 PSIP. According to the TFO, Stakeholders who received the Round 1 PSIP and were on routes no longer under consideration by the TFO were notified accordingly.

Both Volume 1 and Volume 2 of the TFO's project newsletter included the AESO's contact information, a description of the AESO's role, a reference to the AESO Need Overview, and an invitation to contact the TFO or the AESO for additional information.

1.3 Filing Notification

Most recently, the AESO notified Stakeholders of its intention to submit the NID to the Commission by posting a Notification of NID Filing to the AESO website at <https://www.aeso.ca/grid/projects/whitla-wind-facility-connection/> and a publishing notice in the AESO Stakeholder Newsletter on May 1, 2018. Copies of the Notification of NID Filing posting and the AESO Stakeholder Newsletter notice have been included as Attachments 5 and 6, respectively.

1.4 Responding to Questions and Concerns

To ensure that Stakeholders had the opportunity to provide feedback, the AESO provided Stakeholders with AESO contact information, including a dedicated, toll-free telephone line (1-888-866-2959) and a dedicated email address (stakeholder.relations@aeso.ca). The AESO Need Overview included this contact information, along with the AESO's mailing address (2500, 330 5th Ave. SW, Calgary) and website address (www.aeso.ca), and a privacy statement that described how the AESO is committed to protecting Stakeholders' privacy.

As directed by the AESO, the TFO was prepared to direct any Stakeholder questions addressed to the AESO, or questions regarding the AESO Need Overview, to the AESO.

1.5 Concerns and Objections Raised

The TFO has advised that Stakeholders have not identified any concerns or objections regarding the AESO's preferred option to respond to the system access service request or the need for development. The AESO has not received any indication of concerns or objections from any party about the AESO's preferred option to respond to the system access service request or the need for development.

1.6 List of Attachments

- Attachment 1 – AESO Need Overview (September 2017)
- Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice (September 26, 2017)
- Attachment 3 – TFO's Round 1 Project Newsletter – *Capital Power Whitla Wind Facility Connection* (September 2017 Volume 1)

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- Attachment 4 – TFO’s Round 2 Project Newsletter – *Capital Power Whittle Wind Facility Connection* (February 2018 Volume 2)
 - Attachment 5 – AESO Public Notification of NID Filing Website Posting (May 1, 2018)
 - Attachment 6 – AESO Stakeholder Newsletter NID Filing Notice (May 1, 2018)

Attachment 1 – AESO Need Overview (September 2017)

Need for the Capital Power Whitla Wind Facility Connection in the Maleb Area

Capital Power Corporation (Capital Power) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Capital Power Whitla Wind Facility (Facility) in the Maleb area. Capital Power's request can be met by the following solution:

PROPOSED SOLUTION

- Modify the existing Whitla 251S substation, including adding a 240 kilovolt (kV) circuit breaker.
- Add a 240 kV transmission line to connect the Facility and the existing Whitla 251S substation.
- Add or modify associated equipment as required for the above transmission developments.

NEXT STEPS

- The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need in mid-2018.
- The AESO's needs identification document (NID) application will be available on the AESO's website at www.aeso.ca/grid/projects 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.

ALTALINK MANAGEMENT LTD.

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

WHO IS THE AESO?

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

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.

CONTACT US

Alberta Electric System Operator
Jennifer Vollmer
AESO Stakeholder Relations

stakeholder.relations@aeso.ca
1-888-866-2959

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

www.aeso.ca | [@theaeso](https://twitter.com/theaeso)

Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice (September 26, 2017)

Need for the Capital Power Whitle Wind Facility Connection in the Maleb Area

Capital Power Corporation (Capital Power) has applied to the AESO for transmission system access to connect its proposed Capital Power Whitle Wind Facility (Facility) in the Maleb area. Capital Power's request can be met by the following solution:

- Modify the existing Whitle 251S substation, including adding a 240 kilovolt (kV) circuit breaker
- Add a 240 kV transmission line to connect the Facility and the existing Whitle 251S substation
- Add or modify associated equipment as required for the above transmission developments

The AESO has posted a Need Overview for this project on its website. Please [click here](#) to view the document or visit the AESO website at www.aeso.ca and follow the path Grid > Project > Capital Power Whitle Wind Facility Connection.

Attachment 3 – TFO’s Round 1 Project Newsletter – *Capital Power Whitla Wind Facility Connection* (September 2017 Volume 1)

Electric system improvements near you

Capital Power Whitla Wind Facility Connection

You are receiving this newsletter because you are near the Capital Power Whitla Wind Facility Connection and we want your input.

Capital Power has requested a connection to the **transmission** system for their proposed wind power project. AltaLink is proposing to construct a transmission line to connect Capital Power's proposed Shamrock Substation which is part of the Capital Power Whitla Wind Facility to AltaLink's existing Whitla Substation.

If you have questions or concerns about Capital Power's Whitla Wind Facility, please contact Capital Power directly for more information. Their contact information is on the back of this newsletter.

We are providing you with:

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

This project is separate from the nearby Renewable Energy Systems Canada Inc. (RES) Forty Mile Wind Power Project Connection and Suncor's Forty Mile Wind Power Project Connection.

Who is AltaLink?

AltaLink's transmission system efficiently delivers electricity to 85 percent 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.

DEFINITIONS

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

1-877-267-1453

stakeholderrelations@altalink.ca

www.altalink.ca/projects



DEFINITIONS

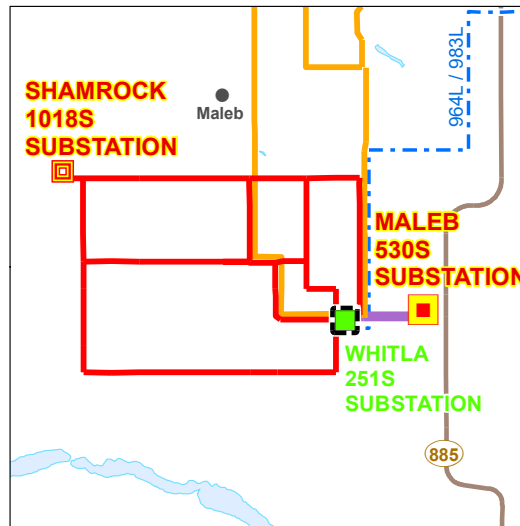
Substation

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 and step up the voltage so power can be transmitted through transmission lines or distributed to your community through distribution lines.

Project details

The proposed Capital Power Whitla Wind Facility Connection is located within the County of Forty Mile No.8 near the community of Maleb. For details regarding the need for the project, please see the included AESO Need Overview document. If approved, the project will involve:

- building a new 240 kV (kilovolt) transmission line between AltaLink’s existing Whitla Substation and Capital Power’s proposed Shamrock Substation and installing optical ground wiring (also known as OPGW) on top of the new transmission line for protection and telecommunications purposes
- adding new equipment and expanding the fence line at the Whitla **Substation**



LEGEND	
	Potential Upgrade to Existing Substation
	Potential Transmission Line
	Existing Transmission Line
	Potential Customer Substation
	Hamlet or Locality
	Road
	Water Body
<u>Other AltaLink Project</u>	
	Proposed 3rd Party Substation
	Proposed RES Forty Mile Transmission Line
	Proposed Suncor Forty Mile Transmission Line



New transmission line

AltaLink is proposing to construct approximately 12 to 15 kilometres of 240 kV single-circuit transmission line between AltaLink's existing Whitla Substation and Capital Power's proposed Shamrock Substation. The new transmission structures will:

- be steel H-frame structures or three pole structures
- be approximately 22 to 34 metres tall
- have a distance of approximately 200 to 250 metres between structures
- have a right-of-way width of 35 metres



Steel H-frame structure



Three pole structures will look similar to the above, but will be steel.

LAND ACQUISITION & COMPENSATION

At AltaLink, we believe landowners who have transmission facilities on their property should be compensated fairly.

We pay fair market value and the acquisition of land will be negotiated on an individual basis with landowners.



DEFINITIONS

Circuit breaker

Circuit breakers are electrical switches inside a substation that protect substation equipment. Circuit breakers help ensure the safety and reliability of the electric system.

Substation upgrades

To support the new transmission line, upgrades will need to be made to the existing Whitla substation in NW 33-7-9 W4. These upgrades are necessary to accommodate the connection of the new transmission line.

UPGRADES TO THE WHITLA SUBSTATION INCLUDE:

- adding one 240 kV **circuit breaker** and associated equipment
- expanding the fence line of the substation to the south 23 metres by 65 metres



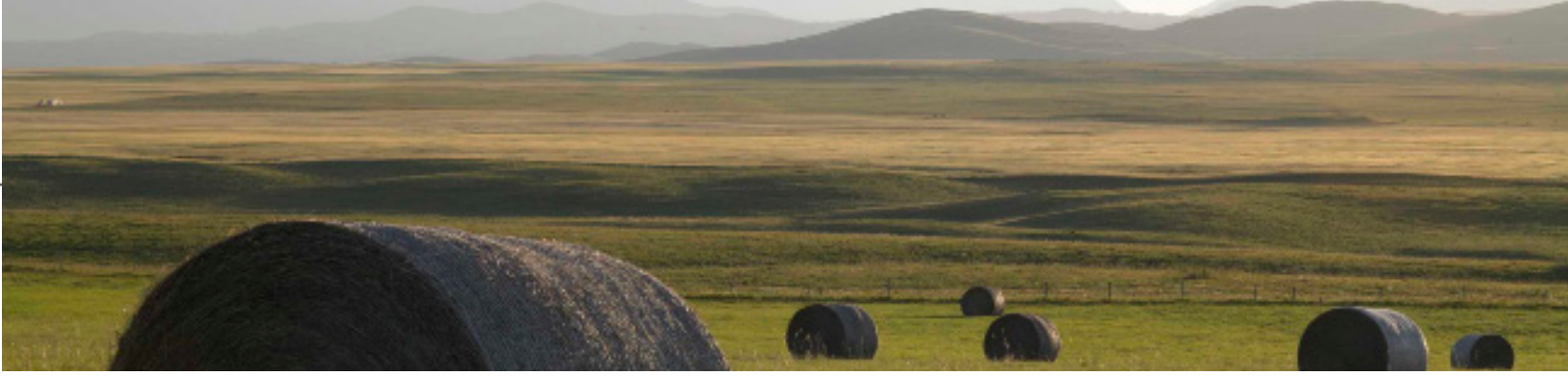
The existing Whitla Substation



A typical 240 kV circuit breaker

DID YOU KNOW?

Alberta is among the leaders in Canada when it comes to installed wind generation capacity. Alberta has more than 1400 MW of wind power connected to the grid, which could power about 625,000 homes for a year.



Route selection

AltaLink takes several factors into consideration in an effort to find a route with low overall environmental, social and economic effects. In addition to stakeholder input we also consider agricultural, residential, environmental and visual impacts, as well as cost.

AltaLink has identified three potential east-west route options that would be suitable to connect the proposed Shamrock and existing Whittle Substations. After our first round of consultation we will refine our routing and then send information regarding preferred and alternate routes during the second round of consultation. If the project is approved, only one transmission line route will be selected.

Easements, off right-of-way access and construction workspace

AltaLink may require additional workspace and right-of-way on private property for construction activities. The construction workspace is intended to be primarily used for access of equipment during construction and will be negotiated with landowners. Construction access, workspace and additional right-of-way information will be confirmed following the first round of consultation. Permanent off right-of-way access may be required for future operations and maintenance of the transmission line. These areas will be identified following the first round of consultation.

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.



DEFINITION

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.

DEFINITION

Alberta Electric System Operator

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 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 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.

How to provide your input

Stakeholder input is important to us. You can provide your input in any of the following ways.

PARTICIPATE IN A ONE-ON-ONE CONSULTATION

We will contact landowners, residents and occupants near the proposed transmission line project to gather input through one-on-one consultations.

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

AltaLink is committed to sharing information about its projects and working with the public to gather and respond to stakeholder input and concerns. A summary of stakeholder comments will be incorporated into the application we submit to the AUC.

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 and notification process is complete, AltaLink will file a Facilities Application with the AUC. The AESO will file a Needs Identification Document application with the AUC. The AUC will review both the Needs Identification Document application and the Facilities Application at the same time 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.

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	September 2017 to May 2018
File application with Alberta Utilities Commission (AUC)	June 2018
Start construction if project is approved	December 2018
Completed construction	August 2019

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.

Projects in the area

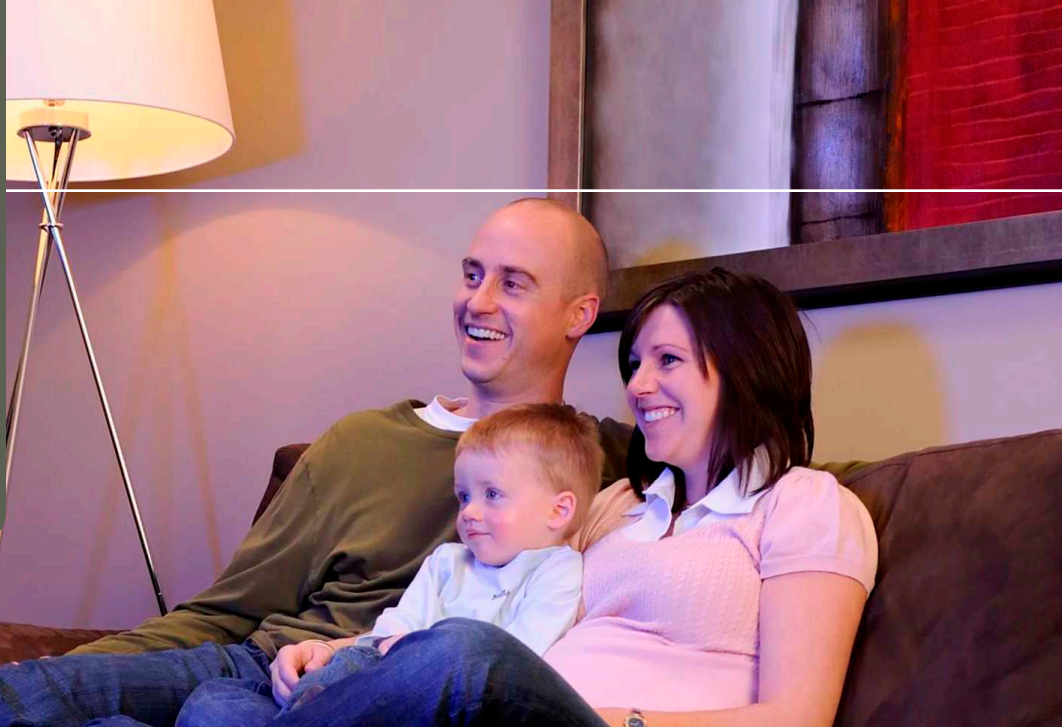
Project name	Description	Status
Suncor Forty Mile Wind Power Project Connection	Suncor has requested a connection to the transmission system to connect their proposed Maleb Substation. We are proposing to build approximately three kilometres of 240 kV transmission line. The Suncor project is not related to the Capital Power Whitla Wind Power Project discussed in this newsletter.	Consultation underway
RES Forty Mile Wind Power Project	RES has requested a connection to the transmission system to connect their proposed Forty Mile Substation to the transmission system. We are proposing to build approximately 27 kilometres of 240 kV transmission line. The RES project is not related to Capital Power Whitla Wind Power Project discussed in this newsletter.	Consultation underway

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 the 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 maps**
- **AESO Need Overview**
- **AUC brochure: *Public involvement in a proposed utility development***



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/regionalprojects

To learn more about Capital Power, please contact:

CAPITAL POWER

780-392-5344

Email: canadadevelopment@capitalpower.com

Website: www.capitalpower.com/generationportfolio



2611 - 3rd Avenue SE
Calgary, Alberta T2A 7W7

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

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

Let's talk transmission

[www.facebook.com/
altalinktransmission](http://www.facebook.com/altalinktransmission)



www.twitter.com/altalink



Attachment 4 - TFO's Round 2 Project Newsletter – *Capital Power Whitla Wind Facility Connection* (February 2018 Volume 2)

Electric system improvements near you

Capital Power Whitla Wind Facility Connection

Preferred and alternate route selection

You are receiving this newsletter because you are near the Capital Power Whitla Wind Facility Connection and we want your input.

Capital Power has requested a connection to the **transmission** system for their proposed wind power project. AltaLink is proposing to construct a transmission line to connect Capital Power's proposed Shamrock **Substation** to AltaLink's existing Whitla Substation.

Although AltaLink's project is separate from Capital Power's project, it is required to facilitate the connection of the proposed Whitla Wind Facility. Please contact Capital Power for more information on their new wind power project. Their contact information is on the back of this newsletter.

This proposed project, located near the community of Maleb in the County of Forty Mile, is separate from the nearby proposed RES Forty Mile and Suncor Forty Mile wind power projects. Project and contact information for both projects can be found at AltaLink.ca.

What progress have we made?

After consulting with stakeholders in the area, AltaLink has identified a preferred route, an alternate route and two variant routes as transmission route options. We are providing you with:

- a project overview
- an update on the route selection
- the project schedule
- information about how you can provide your input
- maps of the proposed project

DEFINITIONS

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.

DEFINITIONS

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 and step up the voltage so power can be transmitted through transmission lines or distributed to your community through distribution lines.

CONTACT US

1-877-267-1453
stakeholderrelations@altalink.ca

Visit us online at
www.altalink.ca/projects

Electric and Magnetic Fields (EMF)

AltaLink recognizes that people have concerns about exposure to Electric and Magnetic Fields (EMF) and we take those concerns 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

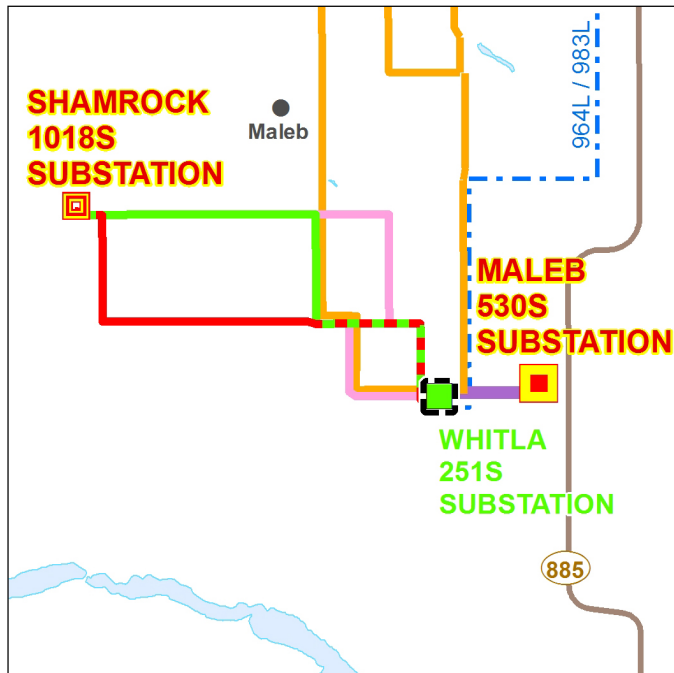
DEFINITIONS

Circuit breaker

Circuit breakers are electrical switches inside a substation that protect substation equipment. Circuit breakers help ensure the safety and reliability of the electric system

Land acquisition and compensation

We believe landowners who have transmission facilities on their land should be compensated fairly. We offer fair market value and the acquisition of land will be discussed on an individual basis with landowners.



LEGEND

- Proposed Upgrade to Existing Substation
- Hamlet or Locality
- Preferred Route Option
- Alternate Route Option
- Preferred/Alternate Route Option Overlap
- Alternate Variant Route Option
- Existing Transmission Line
- Proposed Customer Substation
- Road
- Water Body
- Other AltaLink Project**
- Proposed 3rd Party Substation
- Proposed RES Forty Mile Transmission Line
- Proposed Suncor 40 Mile Transmission Line

Project details

Capital Power has requested a connection to the transmission system to connect AltaLink's existing Whitla Substation to Capital Power's proposed Shamrock Substation.

We are proposing to build approximately 12.5 kilometres of 240 kilovolt (kV) single circuit transmission line. Final transmission line length is dependent on the route approved by the Alberta Utilities Commission (AUC).

A new 240 kV **circuit breaker** and other associated equipment will be added to the Whitla Substation. The previously proposed substation expansion will no longer be required as part of this project. As a result, a section of line - from designation point C70 on the attached maps to the Whitla Substation - has been shifted approximately 20 metres to the north.

AltaLink will also be installing optical ground wiring (also known as OPGW) on top of the new transmission line for protection and telecommunications purposes.

Anticipated project schedule

Notify and consult with stakeholders	February to April 2018
File application with Alberta Utilities Commission	June 2018
Start construction if project is approved	June 2019
Construction complete	August 2019

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.

Route selection

AltaLink takes several factors into consideration in an effort to find a route with low overall environmental, social and economic effects. In addition to stakeholder input, some of the factors we consider include agricultural, residential, environmental, visual impacts and cost. Based on stakeholder feedback, additional field surveys and information gathered to date, AltaLink has identified a preferred route, an alternate route and two variant routes. Please see the attached maps for details.

Preferred route

The middle route, which is approximately 12.4 kilometres long, has been selected as the preferred route because it has low potential agricultural impacts when compared to the alternate route. This route also has low potential residential and visual impacts.

Alternate route

The north route is approximately 12.5 kilometres long and has been identified as the alternate route. Similar to the preferred route, the alternate route has low potential residential and visual impacts, but does have moderately higher agricultural impacts.

North and south alternate variant routes

The north alternate variant route is approximately 12.5 kilometres long and is similar to the alternate route, but has higher potential visual impacts. While similar to the preferred route, the south alternate variant route is approximately 12.4 kilometres long and has higher potential agricultural impacts.

All routes are located on private land. Potential environmental impacts for all routes are expected to be low based on preliminary reviews and field assessments. Additional environmental assessments regarding potential environmental impacts of the project are underway.

The route segments outlined in grey on the attached maps are no longer being considered based on the higher potential impacts and stakeholder input. The route alignment shown on the attached maps from designation point C25 to the Whitla Substation has been added following stakeholder feedback, and based on further assessment has been determined to be a viable route option. If you are not near a route under consideration, you will no longer receive project updates.

Transmission structures

The proposed single circuit 240 kV transmission structures will:

- be steel H-frame and three-pole structures
- be approximately 22 to 34 metres tall
- have a distance between structures of approximately 200 to 250 metres
- have a right-of-way approximately 35 metres



Left: Steel H-frame structure similar to the proposed.

Right: Three-pole corner structure similar to the proposed.

Easements, off right-of-way access and construction workspace. Additional temporary workspace, outside of the right-of-way in certain areas may be required in order to access and construct the transmission line. The temporary construction workspace is intended to be primarily used for equipment access during construction, including the potential stringing areas located behind some corner structures. The temporary construction workspace and access areas are shown on the attached maps and will be discussed with landowners prior to, and during construction of the transmission line. Additional right-of-way for the purposes of guy wires for corner structures will also be required.

How to provide your input

We will contact landowners, residents and occupants near the proposed transmission line project to gather input and address questions or concerns. After the consultation process is complete we will file a facilities application with the 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 again once the AUC has reached a decision about the project. If the project is approved by the AUC, 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*.

INCLUDED IN THIS
INFORMATION
PACKAGE:

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

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 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 email privacy@altalink.ca or phone at 1-877-267-6760.



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Calgary, Alberta T2A 7W7

Let's talk transmission

[www.facebook.com/
altalinktransmission](http://www.facebook.com/altalinktransmission)



www.twitter.com/altalink



Contact us

To learn more about the proposed Capital Power Whitla Wind Facility Connection, please contact:

ALTALINK

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

To learn more about Capital Power, please contact:

CAPITAL POWER

780-392-5344
canadadevelopment@capitalpower.com
www.capitalpower.com/generationportfolio

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 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 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.

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).
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.

Attachment 5 – AESO Public Notification of NID Filing Website Posting (May 1, 2018)

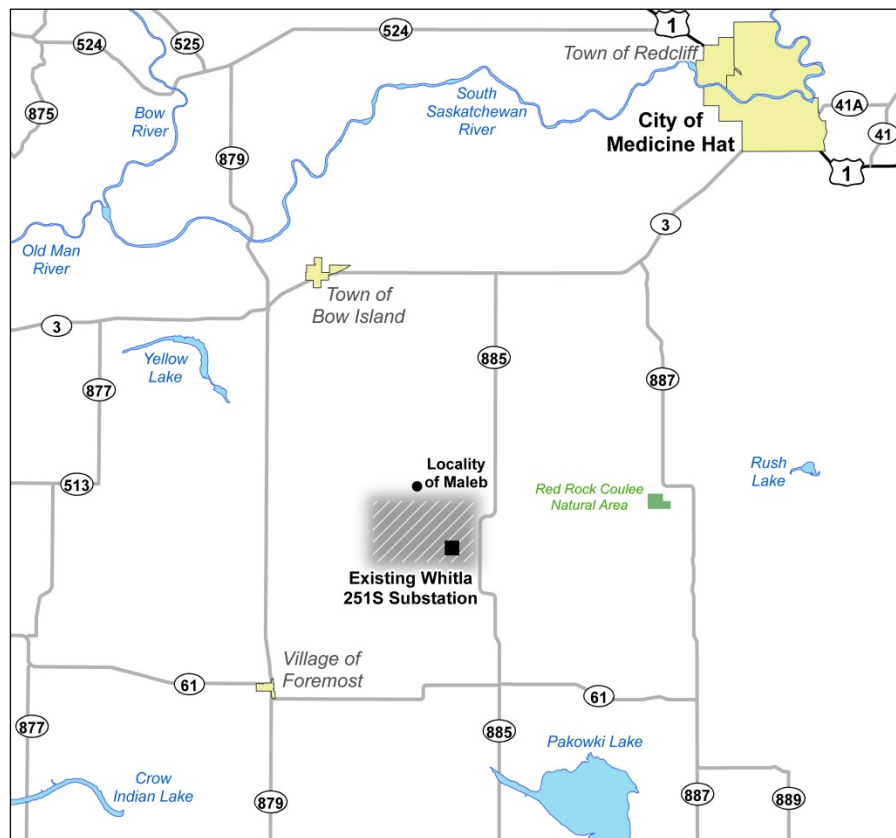
Notification of Needs Identification Document Filing

Addressing the Need for the Whitla Wind Facility Connection in the Maleb Area

The Alberta Electric System Operator (AESO) advises you that it intends to file a Needs Identification Document (NID) for the Whitla Wind Facility Connection with the Alberta Utilities Commission (AUC) on or after May 16, 2018.

Capital Power (Whitla) L.P. (CPW) has applied to the AESO for transmission system access to connect its proposed Whitla Wind Facility (Facility) in the Maleb area. CPW's request can be met by the following solution:

- Modify the existing Whitla 251S substation, including adding a 240 kilovolt (kV) circuit breaker.
- Add a 240 kV transmission line to connect the Facility and the existing Whitla 251S substation.
- Add or modify associated equipment as required for the above transmission developments.



The black square on the map indicates the approximate location of the existing Whitla 251S substation, which is at NW-33-7-9-W4. The shaded area on the map indicates the approximate location of the proposed transmission development, including the 240 kV transmission line. The specific transmission facilities may extend beyond the shaded area shown.

AltaLink Management Ltd. is the transmission facility owner (TFO) in the Maleb area. In September 2017, the AESO and the TFO began presenting this need to stakeholders, including residents, occupants, landowners, and First Nations. The AESO will apply to the AUC for approval of the need for this transmission development. Once filed with the AUC, the NID will be posted on the AESO website at <https://www.aeso.ca/grid/projects/whitla-wind-facility-connection/>

In a separate application, called a Facility Application, the TFO will provide more details about the specific facilities associated with the AESO's proposed transmission development, and will request AUC approval to construct and operate these facilities.

For more information, please visit our website, www.aeso.ca or contact us at 1-888-866-2959 or stakeholder.relations@aesocanada.com

Attachment 6 – AESO Stakeholder Newsletter NID Filing Notice (May 1, 2018)

Whitla Wind Facility Connection – Notice of NID Filing

Capital Power (Whitla) L.P. (CPW) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Whitla Wind Facility (Facility) in the Maleb area. CPW's request can be met by the following solution:

- Modify the existing Whitla 251S substation, including adding a 240 kilovolt (kV) circuit breaker.
- Add a 240 kV transmission line to connect the Facility and the existing Whitla 251S substation.
- Add or modify associated equipment as required for the above transmission developments.

The AESO intends to file the Whitla Wind Facility Connection Needs Identification Document (NID) application with the Alberta Utilities Commission (AUC) on or after May 16, 2018, requesting that the AUC approve this NID.

The AESO has posted the Notification of NID filing on its website. Please [click here](#) to view the document or visit the AESO website at www.aeso.ca and follow the path Grid > Project > Whitla Wind Facility Connection to see all the relevant documents, including the NID application once it is filed with the AUC.