

APPENDIX C AESO PIP

1. Introduction

From January 2022 to June 2022, the AESO conducted a Participant Involvement Program (PIP) to assist in preparing its *Forty Mile Wind Power Plant Connection Needs Identification Document* (NID). The AESO required the Market Participant, RES Forty Mile Wind L.P. (RES) to assist the AESO in providing notification as part of the AESO's PIP. The AESO also directed the legal owner of transmission facilities (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.

The AESO's PIP is designed to notify Stakeholders and Indigenous groups in the area where the AESO has reasonably determined that facilities could be installed to implement the AESO's preferred option to respond to the request for system access service.

The AESO's PIP has been conducted in accordance with the requirements of Section 7.1.2, NID12 and Appendix A2 of the current Alberta Utilities Commission (Commission) Rule 007 (AUC Rule 007), effective April 25, 2022.

2. Stakeholder and Indigenous Group Notification

The AESO developed a one-page AESO Need Overview document with the purpose of notifying Stakeholders and Indigenous groups 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 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/forty-mile-wind-power-plant-connection-2237/> and a notice was published in the AESO Stakeholder Newsletter on January 27, 2022. 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 RES and the TFO's project-specific information packages that were distributed to Stakeholders, as further described in Section 2.1 and 2.2.

2.1 Stakeholders and Indigenous Groups Notified in the RES PIP

RES has advised the AESO that its PIP for the proposed RES development included notification within 800 meters of the proposed transmission line as recommended by the Commission in Appendix A1 in

AUC Rule 007¹ and any required Indigenous consultation was conducted in accordance with Appendix A1-B “Participant involvement program guidelines for Indigenous groups” in AUC Rule 007.

RES notified a total of approximately 113 Stakeholders, of which 62 were classified as private or individual landowners. The other 48 notified Stakeholders and the 3 notified Indigenous groups are listed below:

- Alberta Agriculture and Forestry, Farmers Advocate Office
- Alberta Culture, Multiculturalism and Status of Women
- Alberta Energy Regulator
- Alberta Environment
- Alberta Environment and Parks
- Alberta Southwest Regional Economic Development
- Alberta Transportation
- Alberta Utilities Commission
- AltaGas Ltd
- AltaGas Utilities Inc
- AltaLink
- Avalon Energy Ltd
- Board of Trustees for the New Dale School District No 2212
- Canada Parks and Wilderness Society
- Canadian Badlands
- Canadian Natural Resources Limited
- Cenovus Energy Inc.
- Cherry Coulee Water Users
- Chevron Canada Limited
- Chinook Gas Coop
- Conoco Phillips Canada
- Conquerville Water CO-OP Ltd
- County of Forty Mile – General Inquiries
- County of Forty Mile - Planning and Development
- County of Forty Mile - Road Permits and Municipal Enforcement
- County of Forty Mile - Wes Hollingsworth
- Department of National Defense
- Ducks Unlimited Inc.
- East Cypress Water Coop
- Environment Canada
- EQUUS
- FortisAlberta Inc.
- Forty Mile County Councillor - Deputy Reeve - Division 4, Orion and Conquerville/Maleb

¹ RES has identified its facility application to be of the type: *Overhead transmission line and new substation development – rural or industrial setting*, as categorized in AUC Rule 007, Appendix A1, Section 5.

- Forty Mile Gas Coop Ltd.
- Forty Mile Park
- Hoping to Farm
- Imperial Oil
- Independent Power Producers Society of Alberta (IPPSA)
- Kainai Blood Tribe
- NAV Canada
- NOVA Corporation Of Alberta
- Piikani Nation - Megan Crow Shoe
- Repsol Oil & Gas Canada Inc.
- Roman Catholic Bishop of the Diocese of Calgary
- Shaw Communications
- Shell Canada Limited
- Siksika
- South Alberta Energy Corp.
- St. Mary River Irrigation District
- Suncor Energy Inc.
- TAQA North Ltd
- TELUS Communications Inc.
- Transport Canada
- Wildlife Habitat Canada

Attachment 3 includes RES project newsletter, which was included with the AESO Need Overview in the RES project-specific information package that was distributed to the Stakeholders and Indigenous groups described above between January 24, 2022 and April 26, 2022. The RES project newsletter and the AESO Need Overview were also posted on the RES project-specific webpage at <http://www.fortymilewind.com> on January 25, 2022.

The RES 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 RES, the TFO or the AESO for additional information.

2.2 Stakeholders Notified in the TFO's PIP

The TFO has advised the AESO that its PIP for the Proposed AltaLink Development included notification within 800 meters of the proposed transmission line and new switching station and 100 meters of the proposed fibre optic line as recommended by the Commission in Appendix A1 in AUC Rule 007.²

The TFO notified a total of approximately 28 Stakeholders, of which 13 were classified as private or individual landowners. The other 15 notified Stakeholders are listed below:

- Alberta Culture and Status of Women
- Alberta Environment and Parks – Resource Management Program
- Alberta Transportation

² AltaLink has identified its facility application to be of the type: *Overhead transmission line and new substation development – rural or industrial setting*, as categorized in AUC Rule 007, Appendix A1, Section 5.

- County of Forty Mile
- Canadian Natural Resources Limited
- Equus Rea Ltd.
- Forty Mile Gas Co-op
- Manito Energy Inc.
- NAV Canada
- Renewable Energy System Canada Inc.
- Rogers Communications Inc.
- Shaw Communications Inc.
- Suncor Energy Inc.
- Transport Canada
- Telus Communications

Attachment 4 includes the TFO's project newsletter, which was included with the AESO Need Overview in the TFO project-specific information package that was distributed to the Stakeholders described above between January 24, 2022 and May 4, 2022. The TFO's project newsletter and the AESO Need Overview were also posted on the TFO's project-specific webpage at <https://www.altalink.ca/projects/view/381/forty-mile-wind-power-connection-project-murraylake> on January 24, 2022. 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, RES or the AESO for additional information.

3. Stakeholders Notified by the AESO

The AESO also notified 7 market participants that the AESO determined may have an interest in the Forty Mile Wind Power Plant Connection. The AESO identified that, under certain potential system conditions, these market participants may be affected following the connection of the Forty Mile Wind Power Plant Connection. A Market Participant Notification Letter, which included the Need Overview, was sent to the notified market participants on May 26, 2022.

The seven notified market participants are as follows:

- Cancarb Ltd.
- City of Medicine Hat
- Cypress Renewable Energy Centre LP
- Dunmore Solar Inc.
- Forty Mile Granlea Wind GP Inc.
- Whitla 2 Wind Generation LP
- Wild Rose 2 Wind LP

A generic version of the Market Participant Notification Letter was posted to the AESO website on May 26, 2022 at <https://www.aeso.ca/grid/projects/forty-mile-wind-power-plant-connection-2237/>. A copy has been included as Attachment 5.

4. Filing Notification

Most recently, the AESO notified Stakeholders of its intention to submit the NID to the Commission by way of a posting to the AESO website at <https://www.aeso.ca/grid/projects/forty-mile-wind-power-plant-connection-2237/> and a publishing notice in the AESO Stakeholder Newsletter on June 14, 2022. Copies of the AESO website posting and the AESO Stakeholder Newsletter notice have been included as Attachments 6 and 7, respectively.

5. Responding to Questions and Concerns

To ensure that Stakeholders and Indigenous groups had the opportunity to provide feedback, the AESO provided Stakeholders and Indigenous groups 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, RES and the TFO were prepared to direct any Stakeholder questions addressed to the AESO, or questions regarding the AESO Need Overview, to the AESO.

6. Questions and Concerns Raised

One Stakeholder that received the AESO's Market Participant Notification Letter raised questions and concerns related to how its operations may be affected following the connection of the Forty Mile Wind Power Project. The AESO responded to the Stakeholder by providing information about the following:

- how the Stakeholder's operations might be affected following the connection of the Forty Mile Wind Power Project and other generation facilities in the area;
- how the *Real Time Transmission Constraint Management* (TCM) Rule applies to the Stakeholder's operations; and
- opportunities to further information and engagement with the AESO, including:
 - in advance of a potential application to the Commission to obtain approval for an "exception" under Section 15(2) of the *Transmission Regulation*; and
 - during the development of operational plans for the area.

RES and the TFO have advised the AESO that none of the Stakeholders and Indigenous groups notified by RES and the TFO identified any concerns or objections regarding the AESO's preferred option to respond to the system access service request or the need for development.

Apart from the Stakeholder inquiry described above, the AESO has not received any indication of concerns or objections about the AESO's preferred option to respond to the system access service request or the need for development.

7. List of Attachments

- Attachment 1 – AESO Need Overview (January 2022)
- Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice (January 27, 2022)
- Attachment 3 – RES Project Newsletter (January 2022)
- Attachment 4 – TFO Project Newsletter – *Forty Mile Wind Power Project Connection – Murray Lake Switching Station* (January 2022)
- Attachment 5 – AESO Market Participant Notification Letter (May 26, 2022)
- Attachment 6 – AESO Public Notification of NID Filing Website Posting (June, 2022)
- Attachment 7 – AESO Stakeholder Newsletter NID Filing Notice (June 14, 2022)

Attachment 1 – AESO Need Overview (January 2022)

Need for the Forty Mile Wind Power Plant Connection in the Bow Island area

Renewable Energy Systems Canada Inc. (RES) has applied to the Alberta Electric System Operator (AESO) to connect its approved Forty Mile Wind Power Plant (Facility) in the Bow Island area. RES' request can be met by the following solution:

PROPOSED SOLUTION

- Add one substation, to be designated Murray Lake 326S substation, including three 240 kilovolt (kV) circuit breakers.
- Connect the proposed Murray Lake 326S substation to the existing 240 kV transmission line 964L in an in-and-out configuration.
- Add one 240 kV transmission line to connect the Facility to the Murray Lake 326S 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-2022.
- 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.

RES

- Has requested transmission system access to connect the Facility.
- Is responsible for detailed siting and routing, and constructing the new 240 kV transmission line to connect the Facility to the proposed Murray Lake 326S substation.
- Must apply to the AUC for approval of its transmission facilities applications.

ALTALINK

- Is the transmission facility owner in the town of Bow Island area.
- Is responsible for operating and maintaining the new 240 kV transmission line and constructing, operating and maintaining the transmission facilities associated with the proposed Murray Lake 326S substation.
- 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

AESO Stakeholder Relations
stakeholder.relations@aes0.ca
1-888-866-2959

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

www.aeso.ca | [@theaes0](https://twitter.com/theaes0)

Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice (January 27, 2022)

January 27, 2022

AESO Stakeholder Newsletter

GRID

Forty Mile Wind Power Plant Connection – Need for Transmission

Development in the Bow Island area

Renewable Energy Systems Canada Inc. (RES) has applied to the AESO for transmission system access to connect its approved Forty Mile Wind Power Plant (Facility) in the Bow Island area. RES' request can be met by the following solution:

- Add one substation, to be designated Murray Lake 326S substation, including three 240 kilovolt (kV) circuit breakers.
- Connect the proposed Murray Lake 326S substation to the existing 240 kV transmission line 964L in an in-and-out configuration.
- Add one 240 kV transmission line to connect the Facility to the Murray Lake 326S 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 > Projects > Forty Mile Wind Power Plant Connection.

Attachment 3 – RES Project Newsletter (January 2022)

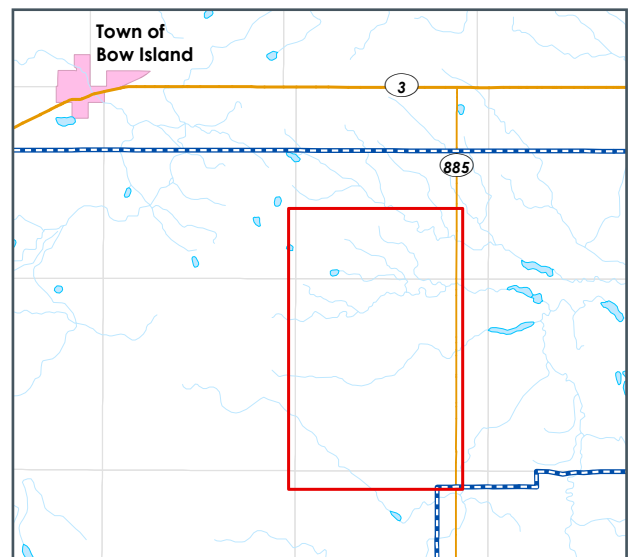
FORTY MILE WIND POWER CONNECTION PROJECT

ABOUT THE PROJECT

Renewable Energy Systems Canada Inc (RES) has received approval from the Alberta Utilities Commission (AUC) to develop, build and operate the Forty Mile Wind Power Plant (“Forty Mile”). Forty Mile is a 400 MW wind energy generation power plant located about 5 kilometers (km) east of Bow Island in The County of Forty Mile No. 8, Alberta. As part of the AUC approved Forty Mile Power Plant, RES will need to construct approximately 20 km of new 240 kV transmission line to connect to the Alberta Interconnected Electric System (AIES), the provincial power grid.

RES applied to the Alberta Electric System Operator (AESO) for transmission system access to connect the Forty Mile Wind Power Plant to the AIES. On December 13, 2021, RES received a request from the AESO to assist the AESO in the Participant Involvement Program to satisfy the requirements of AUC Rule 007. To answer questions you may have regarding the need for the proposed connection project please see the enclosed AESO Need Overview.

The proposed connection project involves constructing approximately 20 km of new overhead 240 kV transmission line located near the town of Bow Island in the County of Forty Mile No. 8. The proposed connection project will connect the approved RES Forty Mile 516S Substation located on NE 7-10-9-W4M to AltaLink’s proposed Murray Lake 326S Switching Station to be located on NW 36-8-9-W4M. AltaLink will be engaging stakeholders on the proposed Murray Lake 326S Switching Station and will submit a separate facility application to the AUC.



Included in this information package

- Project newsletter
- Project Maps
- AUC Brochure: Public Involvement in a Proposed Utility Development
- AESO Need Overview

ROUTING SELECTION AND DETAILS

Several factors are taken into account in an effort to site a transmission line route with the least overall impact.

Some of the factors considered include:

- existing land use
- environmental and agriculture impacts
- existing and proposed infrastructure
- proximity to residences
- economic viability

Several preliminary routes have been identified for this project as shown on the enclosed maps. While several preliminary routes are shown on the maps, only one will be constructed. The proposed transmission line routing alignment follows undeveloped and developed county road allowances, quarter lines and Highway 885.

The proposed transmission line will:

- consist of wood or steel single pole structures
- potentially require guy anchors (within the right-of-way) on corner structures and deflections
- be single circuit
- be 20 m to 40 m tall
- be within a road allowance or right-of-way that measures approximately 12.5 m to 25 m

Once the new transmission line is in-service, AltaLink Management Ltd, will assume the ownership, operation and maintenance of the transmission line.

PUBLIC CONSULTATION

As the proposed connection project advances through the development process, we are committed to working with all landowners and stakeholders to establish and maintain a strong relationship between RES and the community. We strive to exceed the minimum requirements on all our projects, and we commit to responding and acting on all comments and concerns in a timely manner. All personal engagement with stakeholders will be conducted following the current Government guidelines in relation to COVID-19.

We will advise stakeholders prior to submitting an application to the AUC for approval, which we anticipate could be as early as Q2 2022.



Proposed transmission line structures will look similar to the above photograph.

The Transmission Facility Owner, AltaLink, defines Transmission as follows:

Transmission lines make up Alberta's electric highway, linking the places where power is generated to your community where power is used. Transmission lines transport large amounts of power from power plants across the province.

PROPOSED SCHEDULE

Public consultation initiated	January 2022
Personal one-on-one consultations	February - April 2022
Environmental surveys completed	Spring 2022
Alberta Utilities Commission (AUC) submission	Q2 2022
Anticipated AUC approval	Q4 2022
Municipal Development Permit submission and approval	October - November 2022
Start construction if project is approved	Q1 2023
Target in-service date	Q2 2023

* *Timeline is subject to change*

***RES will continue to engage stakeholders until the in-service date.*

ABOUT RES

RES, the largest independent renewable energy company in the world, is a family-owned business, owned by the McAlpine Family Trust, and has been in the renewable energy business since 1982. Through our corporate culture and values, we are dedicated to a zero-carbon future for all Canadians and our focus is solely on renewable energy projects (wind, solar) and enabling and supporting projects (energy storage, transmission). RES has been developing, constructing, owning and/or operating renewable energy, transmission, and energy storage projects in Canada since 2003. RES has developed and/or built 28 projects across Canada.



Please visit: <http://www.res-group.com> for more information.

FORTY MILE WIND POWER CONNECTION PROJECT

Renewable Energy Systems Canada Inc.

Mailing Address: 5605 Avenue de Gaspé, suite 508, Montreal QC H2T2A4

Email: fortymile.wind@res-group.com

Andrea Cosman
Development Manager
Phone: 514 607 9055
Email: andrea.cosman@res-group.com

Georgie Fisher - Hardline Engineering
Stakeholder Engagement Advisor
Phone: 403 689 9936
Email: gfisher@hardlineeng.com

RES IN YOUR COMMUNITY

RES is an active player in the community and supports various fundraising events and special initiatives that bring local benefit.

If you have any ideas on how we can take an active role in the community, please contact us.



ABOUT THE AESO

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 or the proposed transmission development to meet the need you may contact the AESO directly. You can make your questions or concerns known to a Renewable Energy Systems Canada 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.

ALBERTA ELECTRIC SYSTEM OPERATOR (AESO)

Phone: 1-888-866-2959, Email: stakeholder.relations@aeso.ca, Website: www.aeso.ca

ABOUT THE AUC

The Alberta Utilities Commission (AUC) is a quasi-judicial independent agency established by the Government of Alberta, responsible to ensure that the delivery of Alberta's utility service takes place in a manner that is fair, responsible and in the public interest.

They regulate investor-owned natural gas, electric and water utilities, and certain municipally owned electric utilities to protect social, economic and environmental interests of Alberta where competitive market forces do not.

For more information about the regulatory process, please contact:

ALBERTA UTILITIES COMMISSION

Phone: 780-427-4903, Email: consumer-relations@auc.ab.ca, Website: auc.ab.ca

For more information about the proposed AltaLink Murray Lake 326S Switching Station, please contact:

ALTALINK MANAGEMENT LTD

Phone: 1-877-267-1453, E-mail: stakeholderrelations@altalink.ca, Website: altalink.ca/projects

Attachment 4 – TFO Project Newsletter – *Forty Mile Wind Power Project Connection – Murray Lake Switching Station* (January 2022)

Electric system improvements near you

Forty Mile Wind Power Connection Project – Murray Lake Switching Station

You are receiving this newsletter because you are near the Forty Mile Wind Power Connection Project – Murray Lake Switching Station and we want your input.

To connect Renewable Energy Systems Canada Inc.'s (RES) approved Forty Mile Wind Power Plant to the grid, AltaLink is proposing upgrades to its **transmission** system in the area.

Although AltaLink's project is required to facilitate the connection of the Forty Mile Wind Power Plant, it is a separate project. In addition to the approved Forty Mile Wind Power Plant, there is a proposed RES 240 kilovolt (kV) transmission line project associated with it. RES will be consulting separately on their projects. For more information about the RES projects, please see their contact information on the back of this newsletter.

We are providing you with:

- project details
- a map of the proposed project
- 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.

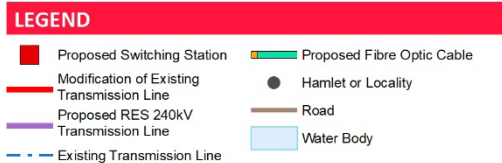
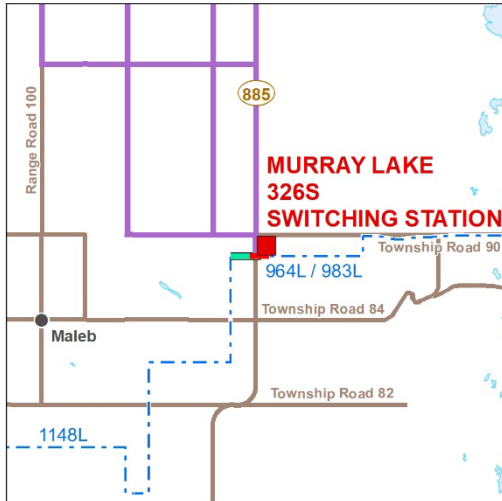
DEFINITION:

Transmission

Transmission lines make up Alberta's electric highway, linking the places where power is generated to your community where power is used. Transmission lines transport large amounts of power from power plants 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



The new switching station will look similar to the image above



The new structure will look similar to the image above

Project details

AltaLink’s proposed project is located at NW-36-8-9-W4 in the County of Forty Mile, approximately 27 kilometres southeast of the Town of Bow Island.

To connect RES’s Forty Mile Wind Power Plant to the grid, AltaLink is proposing to:

- construct a new **switching station** (called Murray Lake 326S)
- modify an existing 240 kilovolt (kV) transmission line (called 964L) including building an additional 35 metres of transmission line and installing one new transmission structure to connect it to the new switching station
- install approximately one kilometre of buried **fibre optic cable** to the west of the switching station

The new switching station will include:

- three 240 kV circuit breakers and associated equipment
- a fenced area of approximately 55 by 85 metres
- an access road approximately 65 metres long by eight metres wide

The new structure will:

- be a wood or steel monopole structure
- be approximately 25 to 52 metres tall
- have a **right-of-way** of approximately 35 metres

DEFINITIONS:

Switching station

Switching stations connect two or more transmission lines so power can be re-routed and transported across the province to where it’s needed.

Fibre optic cable

Fibre optic cable transmits data to our system control centre. This allows us to monitor the operation of the electric system and ensure we provide safe and reliable power to our customers.

Right-of-way

A right-of-way (ROW) is a strip of land required for the construction, maintenance, and safe operation of a transmission line. A ROW refers to the physical spaces in which a transmission line is located and includes areas on either side of the transmission line structures and the conductors, which are the wires that carry the electricity.

Electric and Magnetic Fields (EMF)

AltaLink recognizes that people may have concerns about exposure to EMF and we take those concerns seriously.

Everyone in our society is exposed to power frequency 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 (WHO) have been conducting and reviewing research on exposure to EMF for more than 40 years. Based on this research, these agencies have not recommended that the general public needs to take steps to limit their everyday exposure to EMF from high voltage transmission lines, including individuals that are located on the edge of a power line right-of-way.

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

Anticipated project schedule

Notify and consult with stakeholders	January to April 2022
File application with Alberta Utilities Commission (AUC)	June 2022
Start construction if project is approved	February 2023
Construction completed	June 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.

Keeping the lights on during COVID-19

AltaLink is closely monitoring the spread of COVID-19. Our priority is maintaining the health and safety of our employees, contractors, and the general public while ensuring that we can continue to operate our system and keep the lights on for Albertans.

Providing your input

At this time, we are limiting in-person meetings and will be conducting the majority of meetings via telephone or electronic methods. If you'd like to provide input, you can also do so through our online feedback portal, found here: www.altalink.ca/projectfeedback. As the situation regarding COVID-19 changes we will re-assess this approach. We will update you as the situation evolves. Our focus is ensuring the lights stay on, and that you have the electricity you need.

After our notification process is complete, we will file an application with the Alberta Utilities Commission (AUC). The AUC ensures the fair and responsible delivery of Alberta's utility services and 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. To learn more about the AUC process and how you can become involved, please refer to the brochure included in this package titled *Participating in the AUC's independent review process*.

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 the RES projects, please contact:

RENEWABLE ENERGY SYSTEMS CANADA INC.

Andrea Cosman

Development Manager

514-607-9055

Email: andrea.cosman@res-group.com

Georgie Fisher

Hardline Engineering – Stakeholder Engagement Advisor

403-689-9936

Email: gfisher@hardlineeng.com

Project email: fortymile.wind@res-group.com

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

E-mail: 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 or the proposed transmission development to meet the need 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 (toll-free by dialing 310-0000 before the number)

E-mail: consumer-relations@auc.ab.ca

PRIVACY COMMITMENT

AltaLink is committed to protecting your privacy. AltaLink will collect, use, and disclose personal information in accordance with AltaLink's Privacy Policy and the *Personal Information Protection Act* (Alberta). 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
- COVID-19 update
- AESO Need Overview
- AUC brochure: *Participating in the AUC's independent review process*

SUBSCRIBE TO THIS PROJECT

- 1) Visit: altalink.ca/projects
- 2) Search for the project title
- 3) Click **Subscribe to Updates**

LET'S TALK TRANSMISSION



www.twitter.com/altalink



www.facebook.com/altalinktransmission

Attachment 5 – AESO Market Participant Notification Letter (May 26, 2022)

May 26, 2022

Notified Market Participant Corporate Legal Name
Address Line 1.
Address Line 2.
City, Province, Postal Code.

Dear **Notified Market Participant Primary Contact:**

Re: **Need for the Forty Mile Wind Power Plant Connection in the Bow Island area**

The Alberta Electric System Operator (AESO) would like to advise you that RES Forty Mile Wind LP (RES) has applied for transmission system access to connect its approved Forty Mile Wind Power Plant (Facility) to the Alberta interconnected electric system (AIES) in the AESO South Planning Region.

A copy of the AESO Need Overview document is attached for your information. The AESO Need Overview describes the AESO's proposed transmission development to connect the Facility to the AIES, and the AESO's next steps, which includes submitting a needs identification document (NID) application to the Alberta Utilities Commission (AUC) for approval.

The purpose of this letter is to advise you that the AESO has identified that, under credible worse case forecast conditions, the operation of the **[Effective Generation Facility Name] ([Effective Generation Facility Asset ID])** may be affected following the connection of the Facility.¹

Connection Assessment Findings

An engineering connection assessment was carried out by the AESO to assess the transmission system performance following the connection of the Facility. The connection assessment identified the potential for voltage criteria violations at the Bowmanton 244S substation following the connection of the Facility, under credible worse case forecast conditions, with all transmission facilities in service (Category A). In addition, thermal, voltage and transient stability criteria violations were also identified when a single transmission facility is out of service (Category B) following the connection of the Facility.

Should the AESO determine that mitigation is required to address potential voltage criteria violations under Category A conditions, the AESO may develop operational procedures or other mitigation measures. In addition, to mitigate the potential Category B system performance issues, existing remedial action scheme (RAS) 164 may be modified to connect the Facility, which curtails the Facility and other effective generation facilities upon activation.

The AESO may also make use of real-time operational measures to mitigate these potential system performance issues, in accordance with [Section 302.1 of the ISO rules, Real Time Transmission Constraint Management](#) (TCM Rule), which is in effect today. When applied, the TCM Rule could result in the AESO issuing directives for curtailment to source assets that are effective in managing a constraint.

¹ The studies were performed assuming the Rate STS, *Supply Transmission Service*, contract capacity of 266 MW.

The connection assessment identified source assets, including the **Effective Generation Facility Asset ID]**, which are effective in mitigating the potential transmission constraints.

If the AESO determines that congestion will arise under Category A conditions, the AESO will make an application to the AUC to obtain approval for an “exception” under Section 15(2) of the *Transmission Regulation*. The AESO will notify market participants if and when the AESO determines it is necessary to apply to the AUC for approval of such an exception.

For Further Information

The engineering connection assessment will be included in the AESO’s *Forty Mile Wind Power Plant Connection* NID application. Following submission of the NID application to the AUC, the NID application will be posted on the AESO website at: <https://www.aeso.ca/grid/projects/>

If you have any questions or concerns, please contact the AESO at 1-888-866-2959 or stakeholder.relations@aeso.ca

Attachments:

AESO Need Overview: *Need for the Forty Mile Wind Power Plant Connection in the Bow Island area*

Need for the Forty Mile Wind Power Plant Connection in the Bow Island area

Renewable Energy Systems Canada Inc. (RES) has applied to the Alberta Electric System Operator (AESO) to connect its approved Forty Mile Wind Power Plant (Facility) in the Bow Island area. RES' request can be met by the following solution:

PROPOSED SOLUTION

- Add one substation, to be designated Murray Lake 326S substation, including three 240 kilovolt (kV) circuit breakers.
- Connect the proposed Murray Lake 326S substation to the existing 240 kV transmission line 964L in an in-and-out configuration.
- Add one 240 kV transmission line to connect the Facility to the Murray Lake 326S 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-2022.
- 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.

RES

- Has requested transmission system access to connect the Facility.
- Is responsible for detailed siting and routing, and constructing the new 240 kV transmission line to connect the Facility to the proposed Murray Lake 326S substation.
- Must apply to the AUC for approval of its transmission facilities applications.

ALTALINK

- Is the transmission facility owner in the town of Bow Island area.
- Is responsible for operating and maintaining the new 240 kV transmission line and constructing, operating and maintaining the transmission facilities associated with the proposed Murray Lake 326S substation.
- 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

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Attachment 6 – AESO Public Notification of NID Filing Website Posting (June 14, 2022)

Forty Mile Wind Power Plant Connection (2237)

Notice of Filing

The AESO intends to file the Forty Mile Wind Power Plant Connection Needs Identification Document (NID) application with the Alberta Utilities Commission (AUC) on or after June 29, 2022.

Attachment 7 – AESO Stakeholder Newsletter Notice NID Filing (June 14, 2022)

June 14, 2022

AESO Stakeholder Newsletter

GRID

Forty Mile Wind Power Plant Connection – Notice of NID Filing

RES Forty Mile Wind LP (RES) has applied to the AESO for transmission system access to connect its approved Forty Mile Wind Power Plant (Facility) in the Bow Island area. RES' request can be met by the following solution:

- Add one substation, to be designated Murray Lake 326S substation, including three 240 kilovolt (kV) circuit breakers.
- Connect the proposed Murray Lake 326S substation to the existing 240 kV transmission line 964L in an in-and-out configuration.
- Add one 240 kV transmission line to connect the Facility to the Murray Lake 326S substation.
- Add or modify associated equipment as required for the above transmission developments.

The AESO intends to file the Forty Mile Wind Power Plant Connection Needs Identification Document (NID) application with the Alberta Utilities Commission (AUC) on or after June 29, 2022.

More information is available on the AESO website. Please [click here](#) to view the project page or visit the AESO website at www.aeso.ca and follow the path Grid > Projects > Forty Mile Wind Power Plant Connection (2237) to see all the relevant documents, including the NID application once it is filed with the AUC.