

APPENDIX C AESO PIP

1. Introduction

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 6.2.2, NID27 and Appendix A2 of the current Alberta Utilities Commission (Commission) Rule 007 (AUC Rule 007), effective August 1, 2019, as well as AUC Bulletin 2020-13, effective April 7, 2020.

From May 2017 to December 2017, the AESO conducted a PIP to assist in preparing its original *Paintearth Wind Project Connection Needs Identification Document* (NID). A summary of the original PIP is included as Attachment 1.

From September 2020 to October 2020, the AESO conducted a PIP to assist in preparing its amended *Paintearth Wind Project Connection Needs Identification Document* (NID). The AESO directed the TFO, in this case ATCO Electric Ltd. (ATCO), to assist the AESO in providing notification as part of the AESO's PIP.

2. Stakeholder Notification

The AESO developed a one-page AESO Need Overview Update document with the purpose of notifying 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 amend the NID application submitted to the Commission in December 2017.

A copy of the Need Overview Update was posted to the AESO website at <https://www.aeso.ca/grid/projects/paintearth-wind-project-connection/> and a notice was published in the AESO Stakeholder Newsletter on September 17, 2020. Copies of the Need Overview Update posting and the AESO Stakeholder Newsletter notice have been included as Attachments 2 and 3, respectively. The Need Overview Update was also included with the TFO's project-specific information packages that were distributed to Stakeholders, as further described in Section 2.1.

2.1 Stakeholders Notified in the TFO's PIP

The TFO has advised the AESO that its PIP included notification within 800 metres of the proposed transmission lines and the proposed Pioneer 805S substation as recommended by the Commission in Appendix A1 of AUC Rule 007.¹

The TFO notified a total of approximately 59 Stakeholders, of which 25 were classified as private or individual landowners. The other 34 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 PIP
AGT Limited	Land rights in notification area
Alberta Culture and Tourism	Provincial requirements
Alberta Environment and Parks – Fish and Wildlife	Provincial requirements
Alberta Government Services Director of Cemeteries	Land rights in notification area
Alberta Transportation	Provincial requirements
Beaver Rural Electrification Association Ltd.	Land rights in notification area
Capital Power Generation Services Inc.	Land rights in notification area
County of Paintearth	Municipal requirements
Crescent Point Energy Corp.	Land rights in notification area
Cutpick Energy ULC	Land rights in notification area
Dorchester Energy Inc.	Land rights in notification area
Ducks Unlimited Canada	Land rights in notification area
Fort Calgary Resources Ltd.	Land rights in notification area
Halkirk I Wind Project Ltd	Land rights in notification area
Harvest Operations Corp.	Land rights in notification area
Inter Pipeline Ltd	Land rights in notification area
Karve Energy Inc	Land rights in notification area
Landover Energy Inc	Land rights in notification area
Landover Resource Ltd	Land rights in notification area
Nova Gas Transmission Ltd	Land rights in notification area
MLA for Drumheller-Stettler	At request of the AESO
NAV CANADA	Federal requirements
Page Petroleum Ltd	Land rights in notification area
Paintearth Gas Co-op Ltd	Land rights in notification area
Paintearth Regional Waste Management Ltd.	Land rights in notification area
Paintearth Wind Project Ltd	Land rights in notification area
Pangaea Petroleum Ltd.	Land rights in notification area
Penn West Petroleum Ltd.	Land rights in notification area
Poplar Hill Resources Ltd.	Land rights in notification area
Shirley McClellan Regional Water Services Commission	Land rights in notification area
TELUS Communications Inc.	Provincial requirements
The Alberta Gas Trunk Line Co. Ltd.	Land rights in notification area

¹ ATCO 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.

Stakeholder	TFO's Rationale for Inclusion in PIP
Transport Canada Civil Aviation/Aerodrome Safety	Federal requirements
XTO Energy Canada ULC	Land rights in notification area

Attachment 4 includes the TFO's project update letter, which was included with the AESO Need Overview Update that was distributed to the Stakeholders described above on September 15, 2020. The TFO's project update letter included the AESO's contact information, a reference to the AESO Need Overview Update, and an invitation to contact the TFO 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 NID. The AESO identified that, under certain potential system conditions, these market participants may be affected following the connection of Paintearth Wind Project Plant. A Market Participant Notification Letter, which included the AESO Need Overview Update, was sent to the notified market participants on September 18, 2020.

The 7 notified market participants are as follows:

- Alberta Power (2000) Ltd.
- Balancing Pool
- Bull Creek Wind Power Limited Partnership
- Oldman 2 Wind Farm Ltd
- Ghost Pine Windfarm, LP
- Halkirk I Wind Project LP
- Wheatland Wind Project LP

A generic version of the Market Participant Notification Letter was posted to the AESO website on September 23, 2020 at <https://www.aeso.ca/grid/projects/paintearth-wind-project-connection/>. A copy has been included as Attachment 5.

4. Filing Notification

On October 26, 2020 the AESO notified Stakeholders of its intention to submit the amended NID to the Commission by posting a Notification of NID Amendment Filing to the AESO website at <https://www.aeso.ca/grid/projects/paintearth-wind-project-connection/> and a publishing notice in the AESO Stakeholder Newsletter on October 29, 2020. Copies of the Notification of NID Amendment Filing 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 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.

6. Concerns and Objections Raised

One Stakeholder who received the AESO Need Overview raised a question related to routing. The AESO responded to the Stakeholder by providing a contact to ATCO for further information.

The TFO has advised the AESO that none of the Stakeholders notified by 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. 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 PIP (December 2017)
- Attachment 2 – AESO Need Overview Update (September 2020)
- Attachment 3 – AESO Stakeholder Newsletter Need Overview Update Notice (September 17, 2020)
- Attachment 4 – TFO's Project Update Letter (September 15, 2020)
- Attachment 5 - AESO Market Participant Notification Letter (September 18, 2020)
- Attachment 6 – AESO Public Notification of Amended NID Filing Website Posting (October 2020)
- Attachment 7 – AESO Stakeholder Newsletter Amended NID Filing Notice (October 29, 2020)

Attachment 1 – AESO PIP (December 2017)

Paintearth Wind Project 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 6.2.2, NID27 and Appendix A2 of the current Alberta Utilities Commission Rule 007 (AUC Rule 007), effective July 4, 2017.

From May 2017 to December 2017, the AESO conducted a PIP to assist in preparing its *Paintearth Wind Project Connection Needs Identification Document* (NID). The AESO directed the TFOs to assist the AESO in providing notification as part of the AESO's PIP. In this case, the TFOs were ATCO Electric (ATCO) and AltaLink Management Ltd. (AltaLink), in its capacity as general partner of AltaLink, L.P.

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 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/paintearth-wind-project-connection/> and a notice was published in the AESO Stakeholder Newsletter on June 1, 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 each TFO's project-specific information packages that were distributed to Stakeholders, as further described below.

1.2.1 Stakeholders Notified in ATCO's PIP

ATCO has advised the AESO that its Stakeholder Notification was based on its proposed scope of work, which included:

- Adding a substation (Pioneer 805S) with two 240 kilovolt (kV) circuit breakers.
- Adding two 240 kV transmission lines to connect the proposed Pioneer 805S substation to the existing 240 kV transmission line 9L93.
- Adding a 240 kV transmission line to connect the Facility to the proposed Pioneer 805S substation.

ATCO has also advised the AESO that its PIP included notification within 800 m of the proposed transmission lines and the proposed Pioneer 805S substation, in accordance with AUC Rule 007 minimum recommendation for the type of facility application identified by ATCO.¹

ATCO notified a total of approximately 40 stakeholders, of which 13 were classified as private occupants, residents, or landowners. The other 27 Stakeholders and ATCO's rationale for their inclusion in the PIP are listed in Table 1.

Table 1: ATCO Stakeholder Summary

Stakeholder ^a	ATCO's Rationale for Inclusion in PIP
Alberta Culture and Tourism	Provincial requirements
Alberta Environment and Parks – Fish and Wildlife	Provincial requirements
Alberta Government Services Director of Cemeteries	Land rights in notification area
Alberta Transportation	Provincial requirements
Apache Canada Ltd.	Land rights in notification area
Beaver Rural Electrification Association Ltd.	Land rights in notification area
Capital Power Generation Services Inc.	Land rights in notification area
County of Paintearth	Municipal requirements

¹ ATCO 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.

Crescent Point Energy Corp.	Land rights in notification area
Dorchester Energy Inc.	Land rights in notification area
Ducks Unlimited Canada	Land rights in notification area
EOG Resources Canada Inc.	Land rights in notification area
Fort Calgary Resources Ltd.	Land rights in notification area
Greengate Power Corp., Paintearth Wind Project Ltd.	Land rights in notification area
Harvest Operations Corp.	Land rights in notification area
Mighty White Cattle Co.	Land rights in notification area
MLA for Drumheller-Stettler	At request of the AESO
NAV CANADA	Federal requirements
Paintearth Gas Co-op Ltd	Land rights in notification area
Paintearth Regional Waste Management Ltd.	Land rights in notification area
Pangaea Petroleum Ltd.	Land rights in notification area
Penn West Petroleum Ltd.	Land rights in notification area
Poplar Hill Resources Ltd.	Land rights in notification area
Shirley McClellan Regional Water Services Commission	Land rights in notification area
TELUS Communications Inc.	Provincial requirements
The Alberta Gas Trunk Line Co. Ltd.	Land rights in notification area
Transport Canada	Federal requirements

^a The Stakeholder names listed in Table 1 were provided by ATCO.

Attachment 3 includes ATCO's project newsletter, which was included in ATCO's project-specific information packages that were distributed to the Stakeholders described above on May 31, 2017. ATCO'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 ATCO or the AESO for additional information.

1.2.2 Stakeholders Notified in AltaLink's PIP

AltaLink has advised the AESO that its Stakeholder Notification was based on its planned telecommunications tower upgrade at the existing Edgerton 899S substation. It was determined in November 2017 that this scope of work is no longer need.² As a result, AltaLink's PIP included notifying Stakeholders of its planned telecommunication tower upgrade and notifying Stakeholders that this planned scope of work was cancelled.

² AltaLink has advised the AESO that its remaining scope of work, within the existing Buffalo Creek 526S and Jarrow 252S substations, will not require the preparation of a Facility Proposal. As a result, no PIP was conducted by AltaLink for this scope of work.

AltaLink has advised the AESO that its PIP included notification within 800 m of the Edgerton 899S substation site boundary, in accordance with AUC Rule 007 minimum recommendation for the type of facility application identified by AltaLink.³

AltaLink notified a total of approximately 249 stakeholders, of which 216 stakeholders were notified via unaddressed distribution to postal codes, 21 were classified as private or individual landowners, occupants, or residents via addressed mail. The other 12 Stakeholders and AltaLink's rationale for their inclusion in the PIP are listed in Table 2.

Table 2: AltaLink Stakeholder Summary

Stakeholder ^a	AltaLink's Rationale for Inclusion in PIP
Alberta Environment and Parks – Fish and Wildlife	Provincial requirements
Alberta Transportation	Provincial requirements
ATCO Gas and Pipelines Ltd.	Pipeline owner in notification area
FortisAlberta Inc.	Electric facility owner in notification area
Innovation, Science and Economic Development Canada	Federal requirements
Municipal District of Wainwright No. 61	Municipal requirement (land use authority)
NAV CANADA	Federal requirements
Renaissance Oil & Gas Canada Inc.	Oil and Gas facility owner in notification area
Repsol Oil & Gas Canada Inc.	Oil and Gas facility owner in notification area
TELUS Communications Inc.	Telecommunications facility owner in notification area
Transport Canada	Federal requirements
Village of Edgerton	Municipal requirements

^aStakeholder names listed in Table 2 were provided by AltaLink.

Attachment 4 includes AltaLink's project newsletter, *Edgerton Telecommunications Tower Upgrade*, which was included in AltaLink's project-specific information packages that were distributed to the Stakeholders described above between August 30, 2017 and September 26, 2017. On September 7, 2017, AltaLink's project-specific information package was also posted on AltaLink's project-specific webpage at <http://www.altalink.ca/projects/view/277/edgerton-telecommunications-towerupgrade>. AltaLink'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 AltaLink or the AESO for additional information.

Attachment 5 includes AltaLink's project cancellation letter, *Edgerton Telecommunications Tower Upgrade*. AltaLink notified the Stakeholders listed above regarding the cancellation of the

³ AltaLink has identified its facility application to be of the type: *For substation developments within existing facilities, where there is a change in the substation fence line or which create visual or noise impact – rural and industrial*, as categorized in AUC Rule 007, Appendix A1, Section 5.

Edgerton Telecommunications Tower Upgrade in writing on December 13, 2017. This notification also included the AESO Need Overview.

1.2.3 Stakeholders Notified by the AESO

The AESO also notified 8 market participants that the AESO determined may have an interest in the NID. The AESO identified that, under certain abnormal (Category B) system conditions, these market participants may be affected following the connection of the Facility and/or two other planned generating facilities. A Market Participant Notification Letter, which included the applicable Need Overviews, was sent to the notified market participants on September 8, 2017. The 8 notified market participants are as follows:

- Alberta Power (2000) Ltd.
- Balancing Pool
- BluEarth Renewables Inc.
- FortisAlberta Inc.
- Ghost Pine Windfarm LP.
- Halkirk Wind Power LP
- Suncor Energy Products Inc.
- TransAlta Corporation

A generic version of the Market Participant Notification Letter was posted to the AESO website on September 11, 2017 at <https://www.aeso.ca/grid/projects/paintearth-wind-project-connection/>. A copy has been included as Attachment 6.

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/paintearth-wind-project-connection/> and a notice in the AESO Stakeholder Newsletter on November 30, 2017. Copies of the Notification of NID Filing posting and the AESO Stakeholder Newsletter notice have been included as Attachments 7 and 8, 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 TFOs have advised that Stakeholders have not identified any concerns or objections with the need for development or the AESO's preferred option to respond to the system access service request. The AESO has not received any indication of concerns or objections from any party about the need for development or the AESO's preferred option to respond to the system access service request.

1.6 List of Attachments

- Attachment 1 – AESO Need Overview (May 2017)
- Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice (June 1, 2017)
- Attachment 3 – ATCO's Project Newsletter – *Paintearth Wind Project* (May 2017)
- Attachment 4 – AltaLink's Project Newsletter – *Edgerton Telecommunications Tower Upgrade* (August 2017)
- Attachment 5 – AltaLink's Project Cancellation Letter – *Edgerton Telecommunications Tower Upgrade* (December 12, 2017)
- Attachment 6 – Market Participant Notification Letter (September 7, 2017)
- Attachment 7 – AESO Public Notification of NID Filing Website Posting (November 2017)
- Attachment 8 – AESO Stakeholder Newsletter NID Filing Notice (November 30, 2017)

Attachment 1 – AESO Need Overview (May 2017)

Need for the Paintearth Wind Project Connection in the Halkirk area



FAST FACT

Alberta's electric transmission system comprises the towers, wires and related equipment that are a part of moving electricity from where it is generated to where it is used.

Paintearth Wind Project LP (Paintearth), by its general partner Paintearth Wind Project Ltd., has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Paintearth Wind Project (Facility) in the Halkirk area. Paintearth's request can be met by the following solution:

> PROPOSED SOLUTION

- Add a substation (Pioneer 805S) with two 240 kilovolt (kV) circuit breakers.
- Add two 240 kV transmission lines to connect the proposed Pioneer 805S substation to the existing 240 kV transmission line 9L93.
- Add a 240 kV transmission line to connect the Facility to the proposed Pioneer 805S substation.
- Add or modify associated equipment as required for the above transmission developments.

> NEXT STEPS

- In late 2017, the AESO intends to submit a needs identification document (NID) to the Alberta Utilities Commission (AUC) for approval.
- Once submitted, the NID will be posted on the AESO's website at www.aeso.ca/grid/projects/

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.

> ATCO ELECTRIC LTD.:

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

> CONTACT US

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.

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

Fax: 403-539-2949

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

> 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.

Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice (June 1, 2017)

Paintearth Wind Project Connection – Need for Transmission Development in the Halkirk area

Paintearth Wind Project LP (Paintearth), by its general partner Paintearth Wind Project Ltd., has applied to the AESO for transmission system access to connect its proposed Paintearth Wind Project (Facility) in the Halkirk area. Paintearth's request can be met by the following solution:

- Add a substation (Pioneer 805S) with two 240 kilovolt (kV) circuit breakers.
- Add two 240 kV transmission lines to connect the proposed Pioneer 805S substation to the existing 240 kV transmission line 9L93.
- Add a 240 kV transmission line to connect the Facility to the proposed Pioneer 805S 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 > Paintearth Wind Project Connection.

Attachment 3 – ATCO's Project Newsletter – Paintearth Wind Project (May 2017)

CONTACT INFORMATION

Your comments and concerns are important to us. Please contact us if you would like to learn more about this project or if you would like to share information with us.

Call us toll free at: **1-855-420-5775**
or contact the project planner directly:

Deb Castor
Right-of-Way Planning
ATCO
10035-105 Street Edmonton, AB T5J 2V6

Phone: 780-420-4151
Email: consultation@atcoelectric.com
Website: www.atcoelectric.com
Fax: 780-420-5030

Alberta Electric System Operator (AESO)
Phone: 1-888-866-2959
Email: stakeholder.relations@aeso.ca

Alberta Utilities Commission (AUC)
Phone: 780-427-4903
(For toll-free, dial 310-0000 first)
Email: consumer-relations@auc.ab.ca



Approval Process

Alberta's electrical system is regulated by the AUC, an independent agency of the province that ensures the fair and responsible delivery of utility services. Before ATCO can begin construction on a project, the AUC must approve the facilities application, which includes details such as location of electric transmission facilities and routes. For more information about how you can participate in the AUC approval process, please refer to the enclosed AUC brochure, *Public Involvement in a Proposed Utility Development*.

Next Steps

The consultation process for this project is ongoing. Please let us know if you have any questions, concerns or suggestions regarding this project. You can provide feedback and share other information using the enclosed reply form and postage paid envelope, by contacting us (toll free) at 1-855-420-5775, or by emailing us at consultation@atcoelectric.com.

ATCO | ALWAYS THERE.
ANYWHERE.

ATCO SHAPE the conversation

May 2017



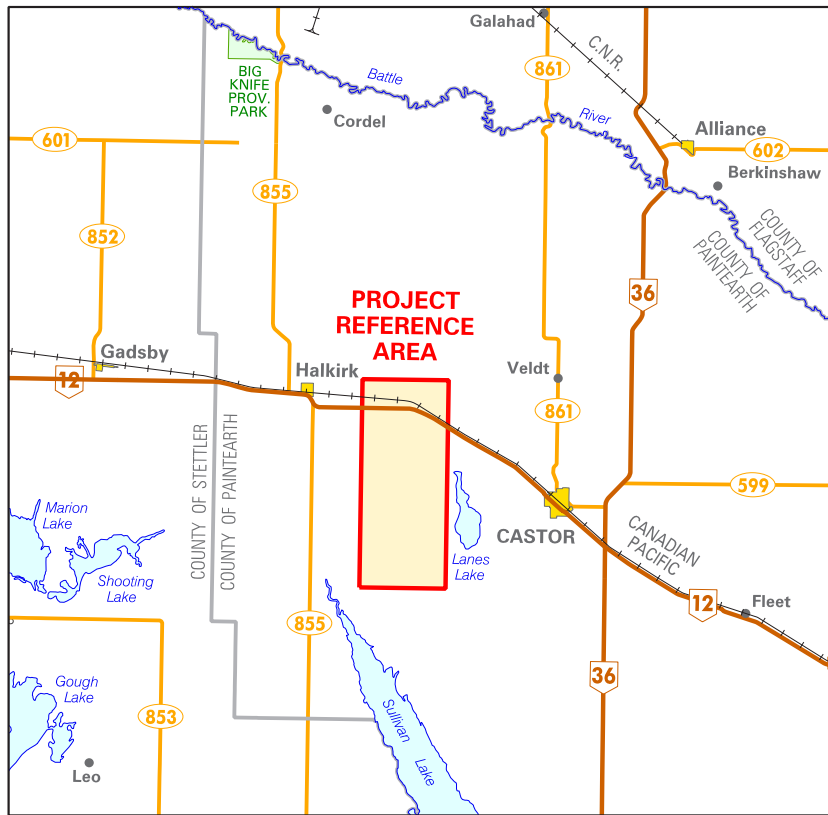
PROJECT NEWSLETTER

PAINTEARTH TRANSMISSION PROJECT

This newsletter provides you with information about electric transmission facilities being planned in your area. This package provides important project information and outlines our public consultation process. We invite any comments, questions or concerns you may have.

The proposed Paintearth Transmission Project will be located approximately 11 kilometres (km) southeast of Halkirk, and is planned to connect new customer wind generation facilities to the electrical grid. If approved, the project will include the construction of approximately 11 km of single-circuit 240 kilovolt (kV) transmission line (to be called 9L119), a new Pioneer switching station (designated 805S) and the alteration of the existing transmission line 9L93. Please refer to the technical details, planned site diagram and route concept map mosaic for further details.

ATCO is seeking your input on how this project may affect you. If you are in the direct vicinity of the planned facilities, ATCO will contact you in the coming weeks.



Project Need

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 electric 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 aeso.ca.

If you have any questions or concerns about the need for this project, you may contact the AESO directly. You can also make your concerns known to an ATCO 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 package

- Technical details of project
- Planned site layout diagram
- Route concepts mosaic map
- AUC brochure: *Public Involvement in a Proposed Utility Development*
- AESO Need Overview
- Reply form and postage paid envelope

LOCAL BENEFITS

Upgrading the transmission system in your area will:

- Improve access to safe, secure and reliable power
- Allow future businesses to connect to Alberta's electric system
- Encourage investment in our province

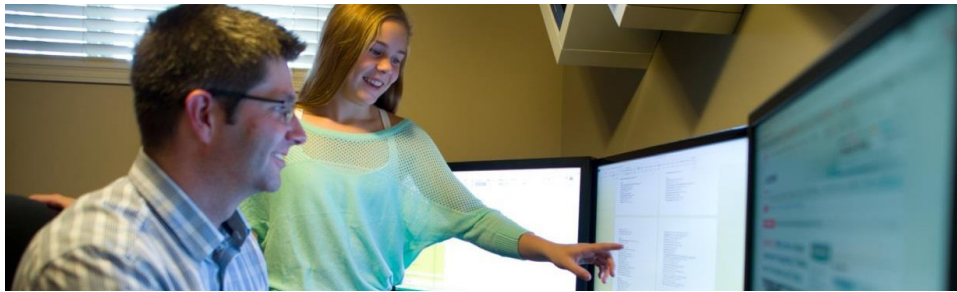
If you are a local business, and would like to be considered for the ATCO approved vendors list, please contact us toll free at 1-800-668-2248.

The Process

Our research indicates that you are in the vicinity of the planned route concept for the Paintearth Transmission Project. In the coming weeks, ATCO will be contacting you to discuss the project.

Consultation with landholders routinely leads to improvements on our projects. We have adjusted routes, developed new route options and rejected other routes because of conversations with landholders. Your feedback and input will help determine the best possible routes.

We would like to meet with you to gather information about the area



and answer any questions you may have. These conversations help us to determine the best route option for new transmission line developments.

In developing route options, ATCO must consider a range of route constraints and barriers including proximity to residences. We undertake extensive studies to understand the potential impacts on wildlife, wetlands and other sensitive areas.

In addition to the in-person and telephone consultations that ATCO will continue to undertake, we invite anyone who is interested in this project to:

- provide feedback and share other information using the enclosed reply form and postage paid envelope, and
- be a part of the conversation. If you have any questions, concerns or other information regarding this project, we want to hear from you.

If you have an interest in lands located on or beside the selected route or substation site, you will be contacted by an ATCO representative to further discuss the project and to

address any questions or concerns you may have. When consultations have been completed, ATCO will submit a facilities application to the Alberta Utilities Commission (AUC) to obtain approval for the construction and operation of the planned facilities.

Transmission Routes

Prior to consultation with landholders, ATCO develops early route concepts. In selecting early route concepts, ATCO considers numerous constraints and barriers including:

- Proximity to residences
- Environmentally sensitive areas
- Wetlands
- Existing infrastructure (i.e. other transmission lines, roads, highways, pipelines, telecommunication towers)
- Planned developments
- Agriculture operations
- Visual factors
- Construction & land acquisition costs
- Quarter and section lines
- Other special considerations (i.e. access roads)

Selected Route Option

ATCO completed early landowner engagement with parties who would likely be affected by the early route concepts. As a result of the early engagement program, one route option has been identified as the selected route option for the project (*see enclosed map*). Parties on or beside the selected route will be contacted by an ATCO representative for additional consultation in the weeks ahead.

Access Trails and Temporary Workspace

Access trails may be required in areas where terrain conditions or the presence of wetlands make driving along the right-of-way impractical. In some situations, access trails will be temporary. Permanent access trails may be needed for ongoing maintenance in some areas. If required, temporary and permanent access trails will be approximately six to 15 metres (m) wide.

In addition, temporary workspace may be required along the edge of the right-of-way and in other selected locations. If needed, this temporary workspace will be used to install the structures and string the transmission line. At corners or locations where the line bends, additional areas may be required to string the transmission line and accommodate the movement of equipment. This temporary workspace may extend beyond the right-of-way by up to 200 m by 50 m. The exact locations of all temporary workspaces and structures have yet to be determined, and dimensions may vary with final plans.

Landowners will be compensated for temporary workspace located outside of the right-of-way boundaries. Arrangements for temporary workspace will be discussed and negotiated with landowners individually.



Typical structure, final design may vary.

The Right-of-Way

The term right-of-way refers to the area a transmission line uses including areas on either side of the line. Rights-of-way must have a minimum width to ensure safety and ongoing access for maintenance.

For safety reasons, some general restrictions on the use of the land in the direct vicinity of the transmission line may apply. These include setbacks for development.

Details including width and position of the right-of-way will depend on the type and size of the required structure, existing land use, surrounding features and other factors.

The right-of-way will follow property boundaries, if feasible, and in some situations, will follow existing features like a road, pipeline or another power line.

The typical width of the right-of-way for this project is 34 m.

Once a proposed route has been submitted to the AUC, ATCO begins coordinating agreements with landholders to acquire rights-of-way. Once a right-of-way is constructed, landholders continue to use the right-of-way subject to the terms of agreements made between the landholder and ATCO.

THE SCHEDULE

Public consultation begins sharing information about the project in order find the best options.

We gather your input. Based on this input and other factors, route option(s) are selected.

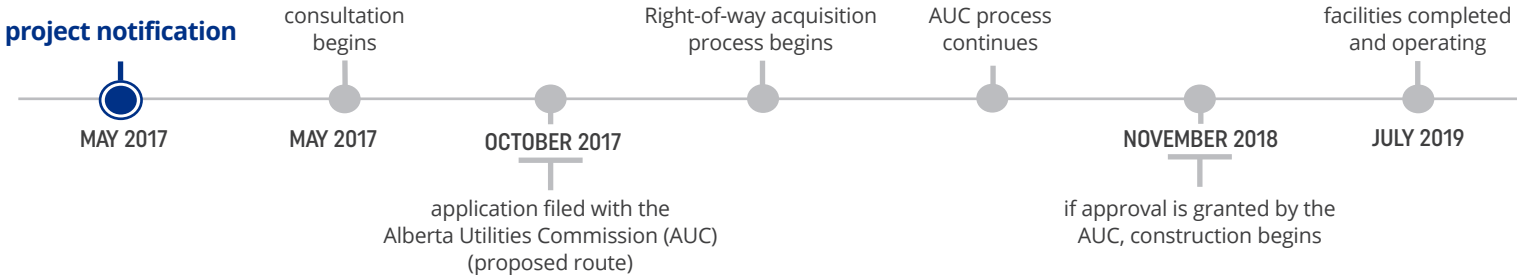
ATCO submits an application to the AUC to build the proposed facilities.

The AUC reviews the application in a public process.

If approved, construction of the new facilities begins.

PUBLIC CONSULTATION

a continuous process that occurs throughout the life of the project



Attachment 4 – AltaLink’s Project Newsletter – Edgerton Telecommunications Tower Upgrade (August 2017)

Electric system improvements near you

Edgerton Telecommunications Tower Upgrade

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.

You are receiving this newsletter because you are near the Edgerton Telecommunications Tower Upgrade and we want your input.

AltaLink is proposing to upgrade the **telecommunications** tower at the Edgerton Substation. A tower upgrade is required to support upcoming wind projects in the area.

We are providing you with:

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

In May 2017, you may have received project information from us regarding the Fortis Provost Reliability Upgrade. The Edgerton Telecommunications Tower Upgrade is a separate project and not related to the Fortis Provost Reliability Upgrade.

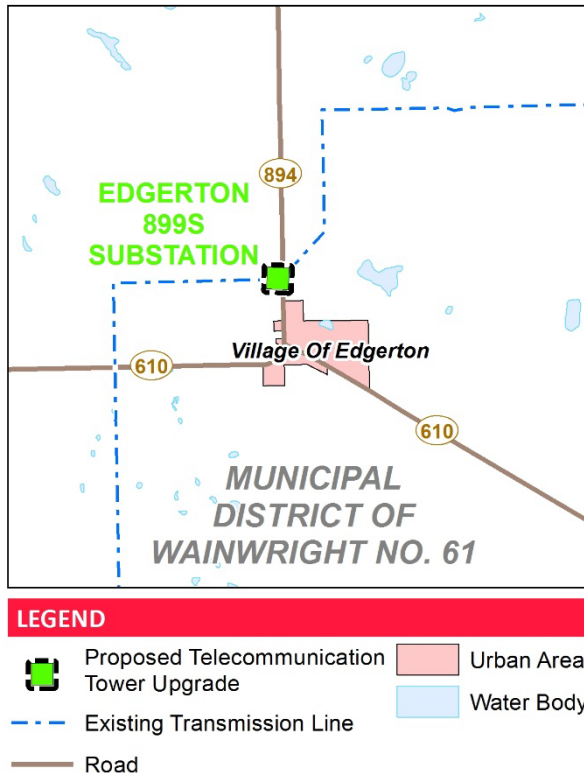
DEFINITION:

Telecommunications tower

Telecommunications towers transmit data to our system and control centre, allowing us to monitor the operation of the electric system and ensure the safety and reliability of the system for our customers.

CONTACT US

1-877-269-5903
stakeholderrelations@altalink.ca
www.altalink.ca/projects



The existing Edgerton Substation



The new tower will look similar to the above.

Project details

The proposed project involves replacing an existing telecommunications tower at the Edgerton Substation, located in NE-2-44-4-W4M and SE-11-44-4-W4M, near the intersection of Highway 894 and Township Road 441, 400 metres northwest of the Village of Edgerton.

Telecommunications towers relay data on the electric system to our control centre. The existing tower at the site needs to be replaced with a stronger, taller tower to support new telecommunications equipment. This new telecommunications equipment is needed to support two potential wind farms in the area that will be connected to the transmission system.

The existing tower at the Edgerton Substation is a 12 metre wood pole structure. The new tower:

- will be approximately 40 to 45 metres tall
- will be a self-supporting steel lattice structure
- will have a triangular base
- may be painted and have lighting to comply with Transport Canada's requirements

Please note that a new telecommunications building may be required for this project. The existing telecommunications structure will be removed after the replacement tower is constructed.

All work will take place on AltaLink-owned land and no new fence expansions will be required.

If this project is approved you may see or hear construction crews in the area. We have set strict standards by which we operate, including restricting work hours to reduce the impacts to local residents and businesses, ensuring safe construction practices and following environmental protection measures.

AltaLink believes that the environmental effects of this project will be negligible. This project is not located on federal lands therefore *Canadian Environmental Assessment Act, 2012* does not apply.

AltaLink's safety standards and practices are developed to meet or exceed government guidelines and codes to ensure that our facilities meet the requirements for public, employee and neighbouring facility safety.

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 below 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 radio installation 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 radio frequency (RF) exposure. To ensure the structural adequacy of the tower, the design and installation will follow industry standards and sound engineering practices.

Providing your input

We will contact all occupants, residents and landowners who are directly adjacent to the proposed telecommunications tower replacement to gather input through one-on-one consultations.

After the consultation 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.

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	August 2017
File application with Alberta Utilities Commission (AUC)	September 2017
Start construction if project is approved	Spring 2018
Construction completed	Spring 2018

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.

Contact us

To learn more about the proposed project please contact:

ALTALINK

1-877-269-5903 (toll free)

E-mail: stakeholderrelations@altalink.ca

Website: www.altalink.ca/projects

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

ALBERTA ELECTRIC SYSTEM OPERATOR (AESO)

1-888-866-2959

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 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.

For general information relating to telecommunications systems, please contact:

SPECTRUM, INFORMATION TECHNOLOGIES AND TELECOMMUNICATIONS

1-800-267-9401 (toll free in Canada)

Website: www.ic.gc.ca/towers

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
- AUC brochure: *Public Involvement in a proposed utility development*
- AESO need overview

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](https://www.facebook.com/altalinktransmission)

Attachment 5 – AltaLink's Project Cancellation Letter – *Edgerton Telecommunications Tower Upgrade* (December 12, 2017)

December 12, 2017

Edgerton Telecommunications Tower Upgrade

Thank you for your ongoing participation in the Edgerton Telecommunications Tower Upgrade project. You may have received information regarding this project in August 2017. The project has been cancelled and we want to provide you with an update.

Project cancellation

Upon further assessment, it has been determined that a telecommunications tower upgrade is no longer needed at the Edgerton Substation to support the planned wind power projects in the area. An existing fibre optic cable is sufficient to support the planned wind power projects. AltaLink was directed to cancel the Edgerton Telecommunications Tower Upgrade by the Alberta Electric System Operator (AESO) on November 29, 2017.

The cancellation of the Edgerton Telecommunications Tower Upgrade project will not affect the upcoming proposed wind power projects and the associated connections to the electric system proposed by ATCO Electric.

Please note that you will not be receiving further communications from AltaLink regarding this project.

Project background

The previously proposed Edgerton Telecommunications Tower Upgrade project was located 400 metres northwest of the Village of Edgerton and involved:

- replacing the existing telecommunications structure at the Edgerton Substation with a new taller telecommunications tower, approximately 40 to 45 metres tall

Contact us

We are available to address any questions or concerns. Please contact us at stakeholderrelations@altalink.ca or 1-877-269-5903. More information about this project can be found at www.altalink.ca/projects.

Sincerely,



Dave Lee
Manager, Stakeholder Engagement

Attachment 6 – Market Participant Notification Letter (September 7, 2017)

September 7, 2017

[Notified Market Participant]

[Notified Market Participant Address]

Attention: **[Notified Market Participant Primary Contact]**

Dear **[Notified Market Participant Primary Contact]**:

Re: **Planned Generating Facility Connections in the AESO's Central Planning Region**

The Alberta Electric System Operator (AESO) would like to advise you that the proponents of three planned generating facilities (planned Facilities), have each applied for transmission system access to connect their respective planned generating facility to the Alberta interconnected electric system (AIES) in the AESO's Central Planning Region.

Planning for the connection of these planned Facilities is being undertaken by the AESO as part of the *AESO Connection Process*. The planned Facilities are as follows:

- Sharp Hills Wind Farm
- Paintearth Wind Farm
- Halkirk 2 Wind Power Project

The AESO has produced Need Overview documents that describe the AESO's proposed transmission development to connect each of the planned Facilities to the AIES and the AESO's next steps, which includes submitting needs identification document (NID) applications to the Alberta Utilities Commission (AUC) for approval. Copies of the three AESO Need Overview documents are attached for your information.

The purpose of this letter is to advise you that the AESO has identified that, under certain abnormal (Category B) system conditions, the operations of the **[Notified Market Participant Facility]** may be affected following the connection of the planned Facilities.

Connection Assessment Findings

Connection assessments were carried out by the AESO to assess the transmission system performance following the connection of the planned Facilities. These assessments did not identify any system performance issues under normal (Category A) system conditions. However, the connection assessments identified the potential for system performance issues under certain Category B system conditions that may be exacerbated following the connection of the planned Facilities.

To mitigate these identified system performance issues, namely potential transmission constraints, existing and planned remedial action schemes (RASs) may be modified. In addition, new RASs may be required.

Transmission Constraint Management

The AESO manages transmission constraints in accordance with the procedures set out in Section 302.1 of the ISO rules, *Real Time Transmission Constraint Management* (TCM Rule). When applied, the TCM Rule could result in the AESO issuing directives for curtailment to source assets that are effective in managing a constraint.

The connection assessments have identified source assets, including the **[Notified Market Participant Facility]**, that are effective in mitigating the potential transmission constraints. These effective source assets could be curtailed to manage the potential transmission constraints under certain Category B system conditions.

For Further Information

A completed connection assessment will be included in each of the AESO's NID applications for the above listed projects. Following submission to the AUC of each of AESO's NID applications, 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

Yours truly,

Mohamed Kamh, P.Eng., Ph.D.,
Manager, Project and System Access Studies

Attachments:

AESO Need Overview: *Need for the Sharp Hills Energy Connection in the Sedalia Area North of Oyen*

AESO Need Overview: *Need for the Halkirk 2 Wind Power Project Connection in the Tinchelbray area in the County of Paintearth*

AESO Need Overview: *Need for the Paintearth Wind Project Connection in the Halkirk area*

Need for the Sharp Hills Energy Connection in the Sedalia Area North of Oyen



FAST FACT

Alberta's electric transmission system comprises the towers, wires and related equipment that are a part of moving electricity from where it is generated to where it is used.

EDP Renewables SH Project Limited Partnership (EDPR) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Sharp Hills wind generating facility in the Sedalia area north of Oyen. EDPR's request can be met by the following solution:

> PROPOSED SOLUTION

- Add the New Brigden 2088S 240 kilovolt (kV) switching substation that includes four 240 kV circuit breakers and associated equipment.
- Connect the New Brigden 2088S switching substation to the existing 240 kV transmission line 9L46 using an in-and-out connection configuration.

> NEXT STEPS

- The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need in late-2017.
- The AESO's needs identification document (NID) application will be available on the AESO's website at www.aeso.ca/nid 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

> ATCO ELECTRIC LTD.:

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

> CONTACT US

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.

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
Fax: 403-539-2949

www.aeso.ca
www.poweringalberta.ca
@theaeso

> WHO IS THE AESO?

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

The AESO is committed to protecting your privacy. Your feedback, comments and/or contact information collected by the AESO will be used to respond to your inquiries and/or to provide you with further information about the project. The AESO will not use your personal information for any other purpose and will not disclose your information without consent or a legal obligation. If you choose to communicate by email, please note, email is not a secure form of communication. Security of your communication while in transit cannot be guaranteed.

Need for the Paintearth Wind Project Connection in the Halkirk area



FAST FACT

Alberta's electric transmission system comprises the towers, wires and related equipment that are a part of moving electricity from where it is generated to where it is used.

Paintearth Wind Project LP (Paintearth), by its general partner Paintearth Wind Project Ltd., has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Paintearth Wind Project (Facility) in the Halkirk area. Paintearth's request can be met by the following solution:

> PROPOSED SOLUTION

- Add a substation (Pioneer 805S) with two 240 kilovolt (kV) circuit breakers.
- Add two 240 kV transmission lines to connect the proposed Pioneer 805S substation to the existing 240 kV transmission line 9L93.
- Add a 240 kV transmission line to connect the Facility to the proposed Pioneer 805S substation.
- Add or modify associated equipment as required for the above transmission developments.

> NEXT STEPS

- In late 2017, the AESO intends to submit a needs identification document (NID) to the Alberta Utilities Commission (AUC) for approval.
- Once submitted, the NID will be posted on the AESO's website at www.aeso.ca/grid/projects/

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.

> ATCO ELECTRIC LTD.:

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

> CONTACT US

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.

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

Fax: 403-539-2949

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

> 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.

Need for the Halkirk 2 Wind Power Project Connection in the Tinchebray area in the County of Paintearth

Capital Power L.P. (Capital Power) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Halkirk 2 Wind Power Project (Facility) in the Tinchebray area in the County of Paintearth. Capital Power's request can be met by the following solution:

> PROPOSED SOLUTION

- Modify the existing Tinchebray 972S substation, including adding a 240 kilovolt (kV) circuit breaker.
- Add a 240 kV transmission line to connect the Facility to the Tinchebray 972S substation.
- Add or modify associated equipment as required for the above transmission developments.

> NEXT STEPS

- In late 2017, the AESO intends to submit a needs identification document (NID) to the Alberta Utilities Commission (AUC) for approval.
- Once submitted, the NID will be posted on the AESO's website at www.aeso.ca/grid/projects/

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.

> ATCO ELECTRIC LTD.:

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



FAST FACT

Alberta's electric transmission system comprises the towers, wires and related equipment that are a part of moving electricity from where it is generated to where it is used.

> CONTACT US

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.

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

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> 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.

The AESO is committed to protecting your privacy. Your feedback, comments and/or contact information collected by the AESO will be used to respond to your inquiries and/or to provide you with further information about the project. The AESO will not use your personal information for any other purpose and will not disclose your information without consent or a legal obligation. If you choose to communicate by email, please note, email is not a secure form of communication. Security of your communication while in transit cannot be guaranteed.

Attachment 7 – AESO Public Notification of NID Filing Website Posting (November 2017)

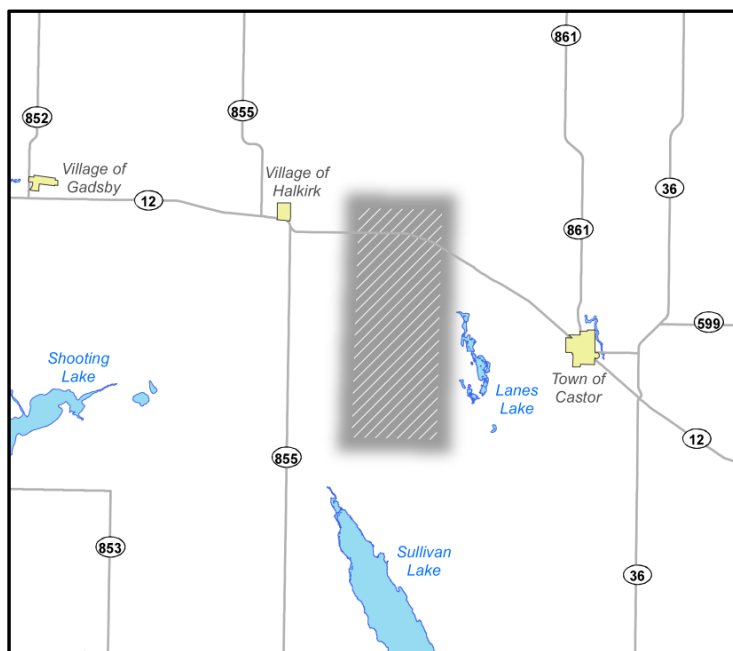
Notification of Needs Identification Document Filing

Addressing the Need for the Paintearth Wind Project Connection in the Halkirk Area

The Alberta Electric System Operator (AESO) advises you that it intends to file a Needs Identification Document (NID) for the Paintearth Wind Project Connection with the Alberta Utilities Commission (AUC) on or after December 15, 2017.

Paintearth Wind Project LP, by its general partner Paintearth Wind Project Ltd. (Paintearth) has applied to the AESO for transmission system access to connect its proposed Paintearth Wind Project (Facility) in the Halkirk area. Paintearth's request can be met by the following solution:

- Add a substation (Pioneer 805S) with two 240 kilovolt (kV) circuit breakers.
- Add two 240 kV transmission lines to connect the proposed Pioneer 805S substation to the existing 240 kV transmission line 9L93.
- Add a 240 kV transmission line to connect the Facility to the proposed Pioneer 805S substation.
- Add or modify associated equipment as required for the above transmission developments.



The shaded area on the map indicates the approximate location of the proposed transmission developments, including the Pioneer 805S substation and the 240 kV transmission lines. The specific transmission facilities may extend beyond the shaded area shown.

ATCO Electric Ltd. (ATCO) and AltaLink Management Ltd. (AltaLink) are transmission facility owners (TFOs) in the AESO Central Planning Region. In May 2017, the AESO and the TFOs began presenting this need to stakeholders, including residents, occupants, and landowners. 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/paintearth-wind-project-connection/>

In a separate application, called a Facility Application, ATCO 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@aes0.ca

Attachment 8 – AESO Stakeholder Newsletter NID Filing Notice (November 30, 2017)

Paintearth Wind Project Connection – Notice of NID Filing

Paintearth Wind Project LP, by its general partner Paintearth Wind Project Ltd. (Paintearth), has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Paintearth Wind Project (Facility) in the Halkirk area. Paintearth's request can be met by the following solution:

- Add a substation (Pioneer 805S) with two 240 kilovolt (kV) circuit breakers.
- Add two 240 kV transmission lines to connect the proposed Pioneer 805S substation to the existing 240 kV transmission line 9L93.
- Add a 240 kV transmission line to connect the Facility to the proposed Pioneer 805S substation.
- Add or modify associated equipment as required for the above transmission developments.

The AESO intends to file the Paintearth Wind Project Connection Needs Identification Document (NID) application with the Alberta Utilities Commission (AUC) on or after December 15, 2017, 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 > Projects > Paintearth Wind Project Connection to see all the relevant documents, including the NID application once it is filed with the AUC.

Attachment 2 – AESO Need Overview Update (September 2020)

Need for the Paintearth Wind Project Connection in the Halkirk area

Paintearth Wind Project LP (Paintearth), by its general partner Paintearth Wind Project Ltd., has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its approved Paintearth Wind Project (Facility) in the Halkirk area.

Distribution of the original AESO Need Overview began in May 2017 and the AESO filed a needs identification document (NID) application in December 2017. As a result of a change in schedule, the AESO determined that an amendment to the filed NID application will be required. The AESO intends to submit the amended NID as described below.

Paintearth's request can be met by the following solution:

PROPOSED SOLUTION

- Add the proposed Pioneer 805S substation, including two 240 kilovolt (kV) circuit breakers.
- Add two 240 kV transmission lines to connect the proposed Pioneer 805S substation to the existing 240 kV transmission line 9L93 in an in-and-out configuration.
- Add one 240 kV transmission line to connect the Facility to the proposed Pioneer 805S substation.
- Add or modify associated equipment as required for the above transmission developments.

REVISED NEXT STEPS

- The AESO has determined that the NID application submitted in December 2017 needs to be amended. The AESO now intends to submit the amended NID application to the Alberta Utilities Commission (AUC) for approval of the need in late 2020.
- 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.

ATCO

- Is the transmission facility owner in the Halkirk 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

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 3 – AESO Stakeholder Newsletter Need Overview Update Notice (September 17, 2020)

AESO Stakeholder Newsletter



Information Update for the Paintearth Wind Project Connection – Need for Transmission Development in the Halkirk Area

Paintearth Wind Project LP (Paintearth), by its general partner Paintearth Wind Project Ltd., has applied to the AESO for transmission system access to connect its approved Paintearth Wind Project (Facility) in the Halkirk area.

Distribution of the original AESO Need Overview began in May 2017 and the AESO filed a needs identification document (NID) application in Dec. 2017. As a result of a change in schedule, the AESO determined that an amendment to the filed NID application will be required. The AESO intends to submit the amended NID as described below.

Paintearth's request can be met by the following solution:

- Add the proposed Pioneer 805S substation, including two 240 kilovolt (kV) circuit breakers.
- Add two 240 kV transmission lines to connect the proposed Pioneer 805S substation to the existing 240 kV transmission line 9L93 in an in-and-out configuration.
- Add one 240 kV transmission line to connect the Facility to the proposed Pioneer 805S substation.
- Add or modify associated equipment as required for the above transmission developments.

The AESO has posted a Need Overview Update 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 > Paintearth Wind Project Connection.

Attachment 4 – TFO’s Project Update Letter (September 15, 2020)

September 15, 2020

Re: Project Update for the Paintearth Transmission Project

On behalf of the Alberta Electric System Operator (AESO), please find the enclosed Need for the Paintearth Wind Project Connection in the Halkirk area, September 2020.

If you have any questions on the enclosed material, please contact the AESO.

Alberta Electric System Operator
Telephone: 1-888-866-2959
Email: stakeholder.relations@aeso.ca

Sincerely,

ATCO Electric Ltd.
Toll Free: 1-855-420-5775
E-mail: consultation@atcoelectric.com

Attachment 5 – AESO Market Participant Notification Letter (September 18, 2020)

SENT VIA EMAIL

September 18, 2020

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

Dear Notified Market Participant Primary Contact:

Re: Approved Generating Facility Connections in the AESO's Central Planning Region

The Alberta Electric System Operator (AESO) would like to advise you that Paintearth Wind Project Ltd. and Pattern Development Lanfine Wind ULC have each applied for transmission system access to connect their approved Paintearth Wind Project and Lanfine North Wind Power Project (approved Facilities) to the Alberta interconnected electric system (AIES) in the AESO's Central Planning Region.

Copies of the applicable AESO Need Overview documents are attached for your information. The AESO Need Overview documents describe the AESO's proposed transmission development to connect each of the approved Facilities to the AIES and the AESO's next steps, which includes submitting needs identification document (NID) applications 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 either of the above noted approved Facilities.¹

Connection Assessment Findings

Engineering connection assessments were carried out by the AESO to assess the transmission system performance following the connection of the approved Facilities. The connection assessments identified the potential for thermal criteria violations following the connection of the Paintearth Wind Project, under credible worse case forecast conditions, with all transmission facilities in service (Category A). In addition, thermal criteria violations were also identified when a single transmission facility is out of service (Category B) following the connection of either of the approved Facilities.

Should the AESO determine that mitigation is required to address potential thermal criteria violations under Category A conditions, the AESO may develop operational procedures or other mitigation measures until the approved Provost to Edgerton and Nilrem to Vermilion Transmission System Reinforcement project is in place. In addition, to address potential thermal criteria violations under Category B conditions, the AESO may implement new remedial action schemes (RASs) or other mitigations, as required.

The AESO may also make use of real-time operational procedures to mitigate these potential thermal criteria violations, in accordance with [Section 302.1 of the ISO rules, Real Time Transmission Constraint](#)

¹ The studies were performed assuming the following Rate STS, *Supply Transmission Service*, contract capacities: the Paintearth Wind Project Connection, Rate STS of 150 MW; and the Lanfine North Wind Power Project Connection, Rate STS of 145 MW.

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.

The connection assessment identified source assets, including the **[Effective Generation Facility Name]** (**[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 amended Paintearth Wind Project Connection NID application and the AESO’s Pattern Lanfine North Wind Power Project Connection NID application. Following submission of the NID applications to the AUC, the NID applications 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 Update: *Need for the Paintearth Wind Project Connection in the Halkirk area*

AESO Need Overview Update: *Need for the Pattern Lanfine North Wind Power Project Connection in the Oyen and Holden areas*

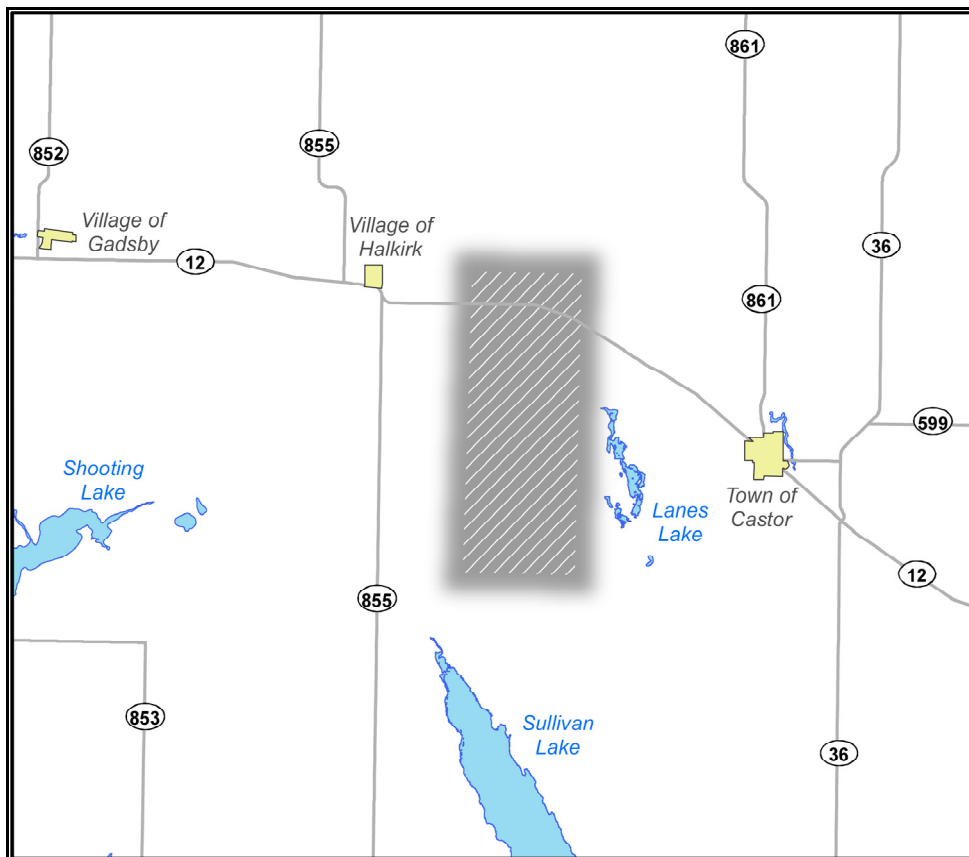
Attachment 6 – AESO Public Notification of Amended NID Filing Website Posting (October 2020)

Notification of Amended Needs Identification Document Filing Addressing the Need for the Paintearth Wind Project Connection in the Halkirk Area

The Alberta Electric System Operator (AESO) advises you that it intends to file an amended Needs Identification Document (NID) for the Paintearth Wind Project Connection with the Alberta Utilities Commission (AUC) on or after November 30, 2020.

Paintearth Wind Project LP, by its general partner Paintearth Wind Project Ltd. (Paintearth) has applied to the AESO for transmission system access to connect its approved Paintearth Wind Project (Facility) in the Halkirk area. Paintearth's request can be met by the following solution:

- Add the proposed Pioneer 805S substation, including two 240 kilovolt (kV) circuit breakers.
- Add two 240 kV transmission lines to connect the proposed Pioneer 805S substation to the existing 240 kV transmission line 9L93 in an in-and-out configuration.
- Add one 240 kV transmission line to connect the Facility to the proposed Pioneer 805S substation.
- Add or modify associated equipment as required for the above transmission developments.



The grey shaded area on the map indicates the approximate location of the proposed transmission developments, including the Pioneer 805S substation and the 240 kV transmission lines. The specific transmission facilities may extend beyond the grey shaded area shown.

ATCO Electric Ltd. (ATCO) is the transmission facility owner (TFO) in the Halkirk area. In September 2020, the AESO and the TFO presented updated information about the need to stakeholders, including residents, occupants, and landowners. The AESO will file an amended NID application with the AUC requesting approval of the need for this transmission development. This amended NID application will replace the original NID application that was filed in December 2017. Once filed with the AUC, the amended NID will be posted on the AESO website at <https://www.aeso.ca/grid/projects/paintearth-wind-project-connection/>

In a separate, previously filed application, called a Facility Application, the TFO provided more details about the specific facilities associated with the AESO's proposed transmission development, and requested 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@aes0.ca.

Attachment 7 – AESO Stakeholder Newsletter Amended NID Filing Notice (October 29, 2020)

AESO Stakeholder Newsletter



Paintearth Wind Project Connection – Notice of Amended NID Filing

Paintearth Wind Project LP (Paintearth), by its general partner Paintearth Wind Project Ltd., has applied to the AESO for transmission system access to connect its approved Paintearth Wind Project (Facility) in the Halkirk area.

Paintearth's request can be met by the following solution:

- Add the proposed Pioneer 805S substation, including two 240 kilovolt (kV) circuit breakers.
- Add two 240 kV transmission lines to connect the proposed Pioneer 805S substation to the existing 240 kV transmission line 9L93 in an in-and-out configuration.
- Add one 240 kV transmission line to connect the Facility to the proposed Pioneer 805S substation.
- Add or modify associated equipment as required for the above transmission developments.

The AESO intends to file the amended Paintearth Wind Project Connection Needs Identification Document (NID) application with the Alberta Utilities Commission (AUC) on or after Nov. 30, 2020 requesting that the AUC approve this amended NID. This amended NID application will replace the original NID application that was filed in Dec. 2017.

The AESO has posted the Notification of Amended 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 > Projects > Paintearth Wind Project Connection to see all the relevant documents, including the amended NID application once it is filed with the AUC.