

## **APPENDIX C   AESO PIP**

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## **Enbridge Battle Sands 594S Substation Connection**

### **Needs Identification Document**

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#### **1.0 Participant Involvement Program (PIP)**

From June to October 2015, the AESO conducted a Participant Involvement Program (PIP) to assist in preparing its Enbridge Battle Sands 594S Substation Connection Needs Identification Document (NID). The AESO directed transmission facility owner (TFO), AltaLink Management Ltd. (AltaLink), to assist the AESO in providing notification in accordance with NID14 and Appendix A2 of Alberta Utilities Commission Rule 007.

#### **1.1 Stakeholder Notification**

The AESO's PIP was designed to notify and provide information to all occupants, residents and landowners within the notification area of the proposed development, as well as to other interested parties, including the following government bodies, agencies and other stakeholder groups (Stakeholders):

- Nav Canada
- Transport Canada
- Alberta Culture and Tourism, Archaeological Survey Section
- Alberta Environment and Parks, Regional Resource Management, Red Deer /North Saskatchewan Region, Rocky Mountain House
- Alberta Environment and Parks, Regional Resource Management, Red Deer /North Saskatchewan Region, Vermilion
- Municipal District of Provost
- Battle River Rural Electrification Association
- FortisAlberta Inc.
- TELUS Communications Company
- ATCO Gas and Pipelines Ltd.
- Canadian Natural Resources Limited
- Cold Lake Pipeline Ltd.
- Enbridge Midstream Inc.
- Enbridge Pipelines (ATHABASCA) Inc.
- Enbridge Pipelines Inc.
- Express Pipeline Ltd.
- Flint Hills Resources LP
- Gibson Energy ULC
- Gibson Gas Processing Ltd.

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- Hardisty Caverns Ltd.
  - Husky Oil Operations Limited
  - Inter Pipeline Ltd.
  - Penn West Petroleum Ltd.
  - Plains Midstream Canada ULC.
  - Talisman Energy Inc.
  - Tervita
  - TransCanada Pipelines Ltd.

The AESO used a variety of methods to notify Stakeholders on the need for the Enbridge Battle Sands 594S Substation Connection. The AESO developed a one-page Need Overview document that described the need for the proposed transmission development. A copy of this document was posted to the AESO website at <http://www.aeso.ca/transmission/32199.html> and a notice was published in the AESO Stakeholder Newsletter on June 23, 2015. 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 AltaLink's project-specific information package mailed on June 18, 2015 to the Stakeholders noted above. Attachment 3 includes a copy of AltaLink's information brochure.

To ensure that Stakeholders had the opportunity to provide feedback, the AESO also provided Stakeholders with a dedicated, toll-free telephone line (1-888-866-2959) and a dedicated email address ([stakeholder.relations@aeso.ca](mailto:stakeholder.relations@aeso.ca)). AESO contact information, along with the AESO's mailing address (2500, 330 5<sup>th</sup> Ave. SW, Calgary) and website address ([www.aeso.ca](http://www.aeso.ca)), and a privacy statement that described how the AESO is committed to protecting Stakeholders' privacy, were included on the Need Overview related to this application.

As directed by the AESO, the TFO was prepared to direct any inquiries or concerns about the project need to the AESO. The TFO has indicated that Stakeholders have not identified any concerns or objections with the need for the proposed transmission development.

## **1.2 Public Notification**

Most recently, the AESO published a Public Notification of Filing to the AESO website at <http://www.aeso.ca/transmission/32199.html> and in the AESO Stakeholder Newsletter on October 1, 2015. Copies of the Public Notification of Filing posting and

the AESO Stakeholder Newsletter notice have been included as Attachments 4 and 5, respectively.

### **1.3 Concerns and Objections Raised**

The AESO has not received any indication of concerns or objections from any party about the need for the proposed transmission development.

### **1.4 List of Attachments**

- Attachment 1 – AESO Need Overview
- Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice
- Attachment 3 – AltaLink’s Information Brochure – *Battle Sands 594S Substation Interconnection* (June 2015)
- Attachment 4 – AESO Public Notification of Regulatory Filing (AESO Website Posting)
- Attachment 5 – AESO Stakeholder Newsletter NID Filing Notice

## **Attachment 1 – AESO Need Overview**

# Need to connect the proposed Enbridge Battle Sands 594S Substation to the transmission system in the Hardisty area

## Transmission Development Information for Stakeholders



Enbridge Pipelines Inc. (Enbridge) has requested transmission system access to reliably supply its proposed Battle Sands 594S substation in the Hardisty area. Enbridge's request can be met by adding a new 138 kV transmission line between Enbridge's proposed Battle Sands 594S substation and the existing 138 kV transmission line 769L, adding a 138 kV breaker to the Rosyth 296S substation, and adding associated equipment.

The AESO is processing Enbridge's request, including providing information to landowners, occupants, residents and agencies that may be near the proposed transmission development. The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of this need in late 2015 or early 2016. The AESO's needs identification document (NID) application will be available on the AESO's website at [www.aeso.ca/nid](http://www.aeso.ca/nid) at the time of its application to the AUC.

### Who is the AESO?

Alberta's transmission system, sometimes referred to as the Alberta Interconnected Electric System (AIES), is planned and operated by the AESO. The transmission system comprises the high-voltage lines, towers and equipment (generally 69 kV and above) that transmit electricity from generators to lower voltage systems that distribute electricity to cities, towns, rural areas and large industrial customers.

The AESO's role is to maintain safe, reliable and economic operation of the AIES. The AESO's planning responsibility includes determining the need for transmission system development and the manner in which that need is met. The AESO is also mandated to facilitate the interconnection of qualified market participants to the AIES. The AESO is regulated by the AUC and must apply to the AUC for approval of its NID.

### How is AltaLink Management Ltd. (AltaLink) involved?

AltaLink is the transmission facility owner (TFO) in the Hardisty area. While the AESO is responsible for identifying that transmission system development is needed, AltaLink is responsible for detailed siting and routing, constructing, operating and maintaining the associated transmission facilities. The AESO has directed AltaLink to provide information to stakeholders on this need and to file a facility proposal application with the AUC which will include a detailed description and location of the proposed transmission development.

### Further Information

The AESO appreciates your views on the need for transmission system development and your comments are encouraged. If you have any questions or comments regarding the need for the proposed transmission system development in the Hardisty area or the AESO's application regarding this need, please contact:

**Susan Haider**  
**AESO Stakeholder Relations**  
**1-888-866-2959**  
**stakeholder.relations@aeso.ca**  
**2500, 330 – 5<sup>th</sup> Avenue SW**  
**Calgary, Alberta T2P 0L4**

*If you have any questions or concerns, please contact us at 1-888-866-2959 or at stakeholder.relations@aeso.ca. 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 2 – AESO Stakeholder Newsletter Need Overview Notice**

## **Enbridge Battle Sands 594S Substation Connection – Need for Transmission System Development in the Hardisty area**

Enbridge Pipelines Inc. (Enbridge) has requested transmission system access to reliably supply its proposed Battle Sands 594S substation in the Hardisty area.

Enbridge's request can be met by adding a new 138 kV transmission line between Enbridge's proposed Battle Sands 594S substation and the existing 138 kV transmission line 769L, adding a 138 kV breaker to the Rosyth 296S substation, and adding associated equipment.

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](http://www.aeso.ca) and follow the path Transmission > Needs Identification Documents > Enbridge Battle Sands 594S Substation Connection.



**Attachment 3 – AltaLink’s Information Brochure – *Battle Sands  
594S Substation Interconnection* (June 2015)**



June 2015

## Electric system improvements near you

Battle Sands 594S Substation Interconnection

AltaLink's transmission system efficiently delivers electricity to 85 per cent of Albertans. Dedicated to meeting the growing need for electricity, AltaLink connects Albertans to renewable, reliable and low-cost power. With a commitment to community and environment, AltaLink is ensuring the transmission system will support Albertans' quality of life for years to come. Learn more at [www.altalink.ca](http://www.altalink.ca).

You are receiving this newsletter because you are near the Battle Sands 594S Substation Interconnection project and we want your input.

AltaLink is proposing to build a 138 kilovolt (kV) **transmission** line that will connect Enbridge's planned Battle Sands Substation to the electric system, providing power to their facilities.

We are providing you with:

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

DEFINITION:

### **Transmission**

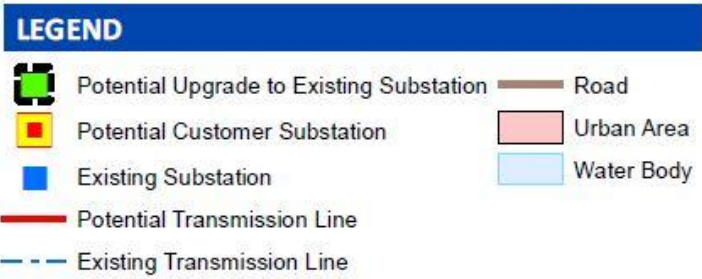
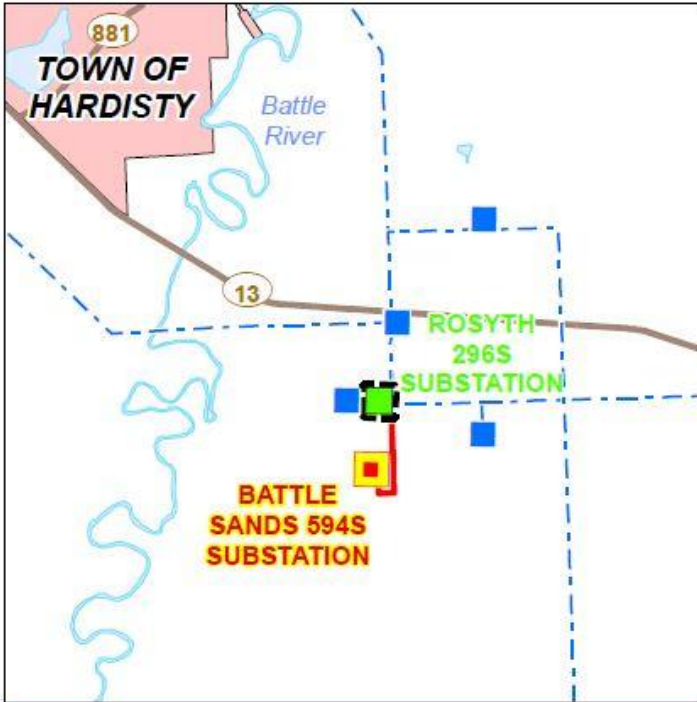
Transmission lines make up Alberta's electric highway, linking the places where power is generated to your community where power is used. Transmission lines transport large amounts of power over long distances from power plants across the province. The transmission system connects diverse sources of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

### **CONTACT US**

1-877-267-1453

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

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



The proposed structures will look similar to the one above.

## Project details

The proposed development is located approximately four kilometres (two miles) southeast of the Town of Hardisty and involves constructing approximately one kilometre (0.6 miles) of 138 kV single-circuit transmission line to connect Enbridge’s planned Battle Sands Substation (located in NE-19-42-9-W4) to the existing 769L transmission line. AltaLink is planning to locate the new transmission line primarily in road allowance (approximately one metre (three feet) from the property line) and on land owned by Enbridge. Please see the included map for location details.

The new transmission line will consist of wood or steel pole structures that will be approximately 18 to 28 metres (60 to 90 feet) tall. These structures will be self-supporting or use guy wires. Where the new transmission line connects with the 769L line, an existing structure may need to be replaced with a new wood pole structure. This structure will be similar in height and design to the existing structure. The need for this new structure will be confirmed upon completion of detailed engineering. An optical ground wire (OPGW) will be located on the new line, to support network communication with the Battle Sands Substation.

Additional easements may be required for guyed structures and temporary construction areas. Once these requirements are confirmed, AltaLink will consult with the associated landowners.

To reliably supply the proposed Battle Sands Substation in the Hardisty area, a new 138 kV circuit breaker will be added to AltaLink’s Rosyth Substation. No fenceline expansion will be required. Circuit breakers are electrical switches inside a substation that protect substation equipment and will help ensure the safety and reliability of the electric system.

This project will connect Enbridge’s planned facilities to the electric system, allowing them to provide services that further develop Alberta’s industry and economy.

## Electric and Magnetic Fields (EMF)

AltaLink recognizes that people have concerns about exposure to Electric and Magnetic Fields (EMF) and we take those concerns very seriously. Everyone in our society is exposed to EMF from many sources, including:

- power lines and other electrical facilities
- electrical appliances in your home
- building wiring

National and international organizations such as Health Canada and the World Health Organization have been conducting and reviewing research about EMF for more than 40 years. Based on this research, these organizations have not recommended the general public take steps to limit their everyday exposure to EMF from high voltage transmission lines. If you have any questions about EMF please contact us.

Website: [www.altalink.ca/emf](http://www.altalink.ca/emf)

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

Toll-free phone number: 1-866-451-7817

## Providing your input

We will contact landowners, residents and occupants near the proposed transmission line project to gather input and address questions or concerns.

After the consultation process is complete we will file an application with the Alberta Utilities Commission (AUC). The AUC will review the application through a process in which stakeholders can participate.

We will notify stakeholders when we file the application and again once the AUC has reached a decision about the project. 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	Summer 2015
File application with Alberta Utilities Commission (AUC)	Fall 2015/Winter 2016
Start construction if project is approved	Winter/Spring 2017
Construction completed	Summer 2017

*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**

1-877-267-1453 (toll free)

E-mail: [stakeholderrelations@altalink.ca](mailto:stakeholderrelations@altalink.ca)

Website: [www.altalink.ca/regionalprojects](http://www.altalink.ca/regionalprojects)

*To learn more about the Enbridge's proposed development, please contact:*

### **ENBRIDGE PIPELINES INC.**

1-888-263-3654 (toll free)

E-mail: [projects@enbridge.com](mailto:projects@enbridge.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](mailto:stakeholder.relations@aeso.ca)

*The Alberta Electric System Operator (AESO) is an independent, not-for-profit organization responsible for the safe, reliable and economic planning and operation of the provincial transmission grid. For more information about why this project is needed, please refer to the AESO's Need Overview included with this package, or visit [www.aeso.ca](http://www.aeso.ca). If you have any questions or concerns about the need for this project you may contact the AESO directly or you can make your concerns known to an AltaLink representative who will communicate them to the AESO on your behalf.*

*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](mailto:consumer-relations@auc.ab.ca)

## **PRIVACY COMMITMENT**

AltaLink is committed to protecting your privacy. Collected personal information will be protected under AltaLink's Privacy Policy and the Freedom of Information and Protection of Privacy Act. As part of the regulatory process for new transmission projects, AltaLink may provide your personal information to Alberta Utilities Commission (AUC). For more information about how AltaLink protects your personal information, visit our website at [www.altalink.ca/privacy](http://www.altalink.ca/privacy) or contact us directly via e-mail [privacy@altalink.ca](mailto: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 Document

## DID YOU KNOW?

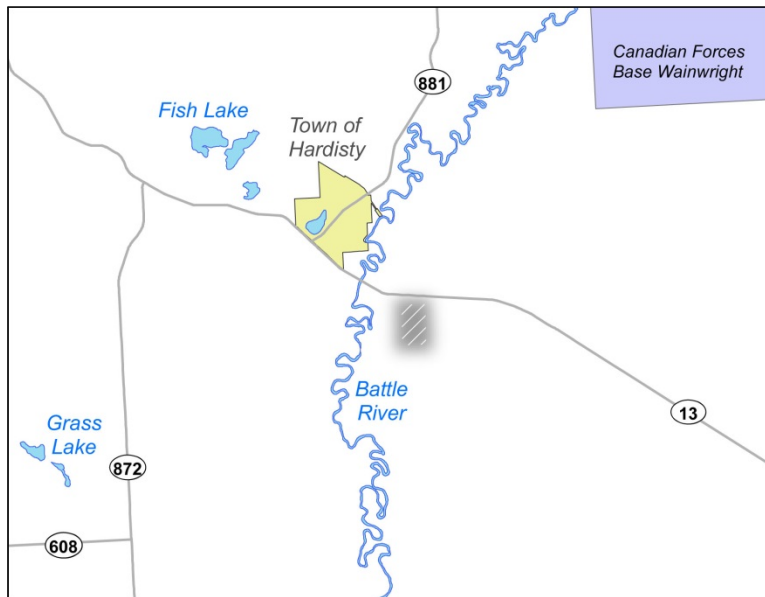
According to the Canadian Electricity Association, Canada's electricity grid was built for a population of about 20 million, but is today servicing around 35 million people. Provinces across Canada, including Alberta, are working to reinforce their aging electric systems so they can continue to provide customers with reliable power.

**Attachment 4 – AESO Public Notification of Regulatory Filing (AESO Website Posting)**

## AESO Public Notification of Regulatory Filing Addressing the Need to Connect the Enbridge Battle Sands 594S Substation in the Hardisty Area

The Alberta Electric System Operator (AESO) advises you that it intends to file a Needs Identification Document (NID) for the connection of the Enbridge Battle Sands 594S Substation with the Alberta Utilities Commission (AUC) on or after October 16, 2015.

Enbridge Pipelines Inc. (Enbridge) has requested transmission system access to reliably supply its proposed Battle Sands 594S substation in the Hardisty area. Enbridge's request can be met by adding a new 138 kV transmission line between Enbridge's proposed Battle Sands 594S substation and the existing 138 kV transmission line 769L, adding a 138 kV breaker to the Rosyth 296S substation, and adding associated equipment.



*The shaded area on the map indicates the approximate location of the connection to the Enbridge Battle Sands 594S Substation, which is in the vicinity of SE30-42-9-W4 and NE19-42-9-W4. In a separate application called a Facility Application, AltaLink Management Ltd. (AltaLink) the transmission facility owner (TFO) in the Hardisty area, will describe the specific upgrades to be performed and request AUC approval to construct and operate the specific transmission facility.*

The AESO and AltaLink presented this need to stakeholders, including any residents, occupants, land owners, agencies, and industries, from June 2015 to October 2015. The AESO has considered feedback gathered from stakeholders, and technical and cost considerations, and will apply to the AUC for approval of the need for this transmission development. Once filed, the NID will be posted on the AESO website at <http://www.aeso.ca/transmission/32199.html>

Please visit our website, [www.aeso.ca](http://www.aeso.ca) for more information, or contact the AESO at 1-888-866-2959 or [stakeholder.relations@aeso.ca](mailto:stakeholder.relations@aeso.ca)

**Attachment 5 – AESO Stakeholder Newsletter NID Filing  
Notice**



## **Enbridge Battle Sands 594S Substation Connection – Notice of NID Filing**

Enbridge Pipelines Inc. has requested transmission system access to reliably supply its proposed Battle Sands 594S substation in the Hardisty area. Enbridge's request can be met by adding a new 138 kV transmission line between Enbridge's proposed Battle Sands 594S substation and the existing 138 kV transmission line 769L, adding a 138 kV breaker to the Rosyth 296S substation, and adding associated equipment.

The AESO will be filing the Enbridge Battle Sands 594S Substation Connection Needs Identification Document (NID) application with the Alberta Utilities Commission (AUC) on or after October 16, 2015, requesting that the AUC approve this NID.

The AESO has posted the public notification for its NID filing on its website for the Enbridge Battle Sands 594S Substation Connection. Please [click here](#) to view the document or visit the AESO website at [www.aeso.ca](http://www.aeso.ca) and follow the path Transmission > Needs Identification Documents > Enbridge Battle Sands 594S Substation Connection to see all the relevant documents, including the NID application once it is filed with the AUC.