

APPENDIX C AESO PIP

Jenner Wind Energy Connection

Needs Identification Document

1.0 Participant Involvement Program (PIP)

From November 2015 to May 2016, the AESO conducted a participant involvement program (PIP) to assist in preparing its Jenner Wind Energy Connection Needs Identification Document (NID).

Joss Wind Power Inc. (Joss Wind) submitted a system access service request for a proposed wind aggregated generating facility named the Jenner Wind Power Project (the Facility). Joss Wind confirmed its intention to submit a proposal to the AESO, pursuant to Section 5 of the *Transmission Deficiency Regulation*, for the construction and temporary operation of certain transmission facilities contemplated as part of the Facility connection (the MPC Facilities). On November 30, 2015, Joss Wind sold the Facility to Power Renewable Energy Corporation (PRE), and all required assignments of the interconnection rights were completed on February 2, 2016.

The AESO required Joss Wind and PRE (as the successor to Joss Wind) to assist the AESO in providing notification in accordance with Alberta Utilities Commission Rule 007. PRE assisted the AESO in providing notification in the area associated with the MPC Facilities.

The AESO also directed the transmission facility owner (TFO), AltaLink Management Ltd., in its capacity as general partner of AltaLink, L.P., to assist the AESO in providing notification in accordance with Alberta Utilities Commission Rule 007. AltaLink assisted the AESO in providing notification in the area associated with the modification of the existing Jenner 275S substation to facilitate the Facility connection (the TFO Facilities).

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):

Other interested parties notified in connection with the TFO Facilities

- Alberta Environment and Parks, Regional Resource Management
- Alberta Culture and Tourism – Archeological Survey Section

- Department of National Defence
- Special Areas Board
- Transport Canada
- Ducks Unlimited Canada
- NAV Canada
- FortisAlberta Inc.
- Samda Economic Partnership Ltd.
- Telus Communications Inc.
- Cardinal Energy Ltd.
- ConocoPhillips Canada Resources Corp.
- Imaginea Energy Corp.
- Inter Pipeline Ltd.
- TransCanada Pipelines Ltd.
- Twin Butte Energy Ltd.

Other interested parties notified in connection with the MPC Facilities

- Special Areas No. 2 - Hanna District Office
- Department of National Defence
- NAV Canada
- Transport Canada
- Ducks Unlimited Canada
- SAMDA Economic Partnership Ltd.
- Alberta Environment and Parks, Regional Approvals
- Department of Municipal Affairs
- Alberta Culture and Community Spirit
- AB Transportation
- Special Areas No. 2
- Industry Canada, Spectrum Management, Southern Alberta District Office
- Foothills Pipe Lines (Alta.) Ltd.
- Nova Gas Transmission Ltd.
- TransCanada Pipelines Ltd.
- Twin Butte Energy Ltd.
- Telus Communications
- Cardinal Energy Ltd.
- ConocoPhillips Canada Resources Corp.
- Inter Pipeline Ltd.
- Canadian Natural Resources Limited
- Husky Oil Operations Limited
- Lightstream Resources Ltd.

- Rife Resources Ltd.
- FortisAlberta Inc.
- CP Rail
- Quikway Air Services Inc.

The AESO used a variety of methods to notify Stakeholders on the need for the Jenner wind energy 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/32831.html> on November 6, 2015 and a notice was published in the AESO Stakeholder Newsletter on November 10, 2016. 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 Joss Wind's project-specific information package mailed on November 2, 2015, as well as AltaLink's project-specific information package mailed on November 3, 2015, to the Stakeholders noted above. Attachments 3 and 4 include copies of Joss Wind's and AltaLink's information brochures.

On November 24, 2015, Joss Wind hosted an open house at the Jenner School about the Jenner wind energy connection (Open House). The AESO's Need Overview was made available at the Open House.

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). AESO 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, were included on the Need Overview related to this application.

As requested by the AESO, Joss Wind and subsequently PRE were prepared to direct any inquiries or concerns about the project need to the AESO. As directed by the AESO, AltaLink also was prepared to direct any inquiries or concerns about the project need to the AESO. PRE and AltaLink have 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 NID Filing to the AESO website at <http://www.aeso.ca/transmission/32831.html> on April 20, 2016, and a notice in the AESO Stakeholder Newsletter on April 21, 2016. Copies of the Public Notification

of NID Filing posting and the AESO Stakeholder Newsletter notice have been included as Attachments 5 and 6, 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 – Joss Wind/PRE’s Information Brochure – *Jenner Wind Power Interconnection Project* (November 2015)
- Attachment 4 – AltaLink’s Information Brochure – *Jenner Substation Circuit Breaker Addition* (November 2015)
- Attachment 5 – AESO Public Notification of NID Filing (AESO Website Posting)
- Attachment 6 – AESO Stakeholder Newsletter NID Filing Notice

Attachment 1 – AESO Need Overview

Need for the Jenner Wind Energy Connection in the Brooks 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.

Joss Wind Power Inc. (Joss) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Jenner wind generating facility (Facility) in the Brooks area. Joss' request can be met by the following solution:

> PROPOSED SOLUTION

- Constructing approximately 14 kilometres of 240 kilovolt (kV) transmission line to connect the Facility to the existing Jenner 275S substation
- Modifying the existing Jenner 275S substation, including adding a 240 kV breaker
- Adding associated equipment as required to facilitate the Facility connection

> NEXT STEPS

- The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need in Spring 2016
- 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

> JOSS:

- Has requested transmission system access to connect the Facility
- Is responsible for detailed siting and routing, and constructing the transmission facilities associated with the proposed 240 kV transmission line
- Must apply to the AUC for approval of its transmission facilities application

> ALTALINK MANAGEMENT LTD.:

- Is the transmission facility owner in the Brooks area
- Is responsible for detailed siting and routing, constructing, operating and maintaining the transmission facilities associated with the Jenner 275S substation modification
- Is regulated by the AUC and must apply to the AUC for approval of its transmission facilities application

> 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
Marina Lakhani**

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.

Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice

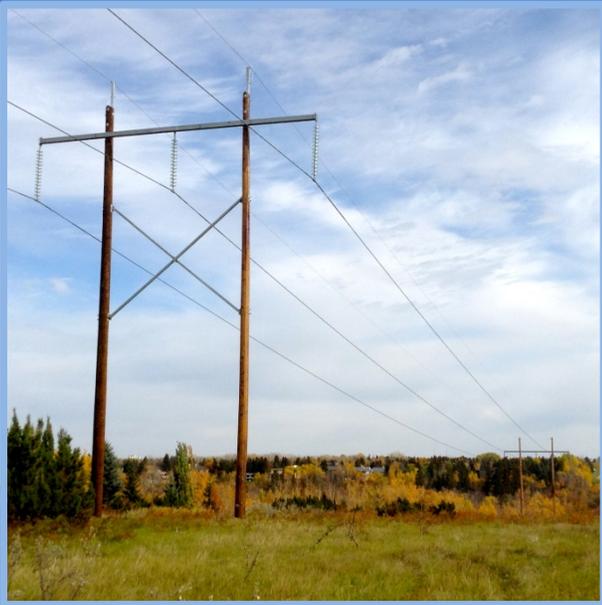
Jenner Wind Energy Connection – Need for Transmission System Development in the Brooks area

Joss Wind Power Inc. has applied to the AESO for transmission system access to connect its proposed Jenner wind generating facility in the Brooks area. Joss' request can be met through the following solution:

- Construct approximately 14 km of 240 kV transmission line to connect the proposed facility to the existing Jenner 275S substation
- Modify the existing Jenner 275S substation, including adding a 240kV breaker
- Add associated equipment as required to facilitate the facility connection

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 Transmission > Needs Identification Documents > Jenner Wind Energy Connection.

**Attachment 3 – Joss Wind/PRE’s Information Brochure – Jenner
Wind Power Interconnection Project (November 2015)**



JENNER WIND POWER INTERCONNECTION PROJECT

November, 2015

You are receiving this newsletter because you live on or own land near the Jenner Wind Power Interconnection Project and we want your input.

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
- the AESO Need Overview
- the AUC Public Involvement brochure

PROJECT FACTS

- Joss Wind Power Inc. (Joss Wind) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Jenner Wind Power Project (JWPP).
- The proposed Jenner Wind Power Interconnection Project (the Project) will facilitate the connection of the proposed JWPP to the Alberta electrical grid. The costs associated with this interconnection project will be paid for by Joss Wind.

CONTACT US

Joss Wind:

Phone (403) 984-9463

Website: josswind.com/projects/jenner

Email: jenner.project@josswind.com



Project Details

The Project involves the construction of approximately 14 kilometres of 240 kilovolt (kV) transmission line to connect the proposed JWPP to the Alberta electrical grid. The proposed 240 kV transmission line will connect Joss Wind's Halsbury wind substation to AltaLink's existing Jenner substation.

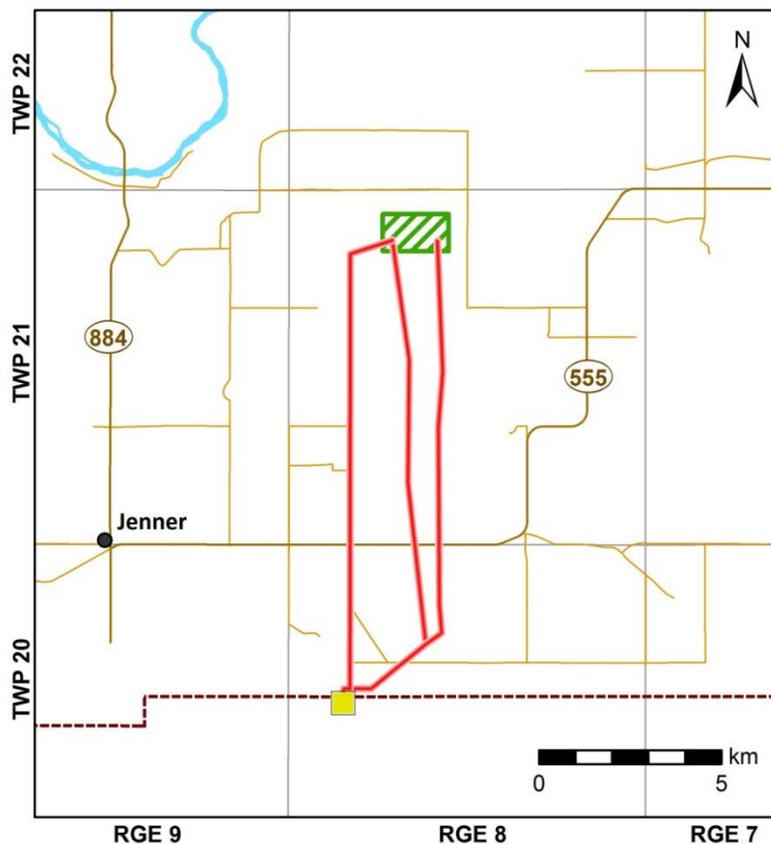
Joss Wind is responsible for construction of the Project transmission facilities and for consultation relating to the Project.

AltaLink is responsible for the modifications at AltaLink's existing Jenner substation that are also required to facilitate the connection of the JWPP. AltaLink's modifications are separate from the Project and the JWPP. AltaLink will consult separately on the Jenner substation modifications.

Joss Wind will also consult separately on the proposed JWPP.

The proposed 240 kV transmission line (to be called 949L) will consist of single-circuit wood H-frame cross-braced structures similar in design to the structure shown on the first page. The structures will:

- have a total height of approximately 16-18 metres
- have a width of approximately 17 metres at the widest arm
- require a right-of-way of up to 34 metres wide plus additional right-of-way for deflections
- have a distance of approximately 250 metres between structures



Legend

- Existing Jenner Substation
- Existing 240kV Transmission Line
- Highway
- Potential Interconnection Routes
- Potential Area for Proposed Halsbury Substation Location

ROUTE SELECTION

When identifying route options, Joss Wind takes several factors into consideration in an effort to find routes with the lowest overall impact.

Key factors we take into consideration include:

- Agricultural
- Residential
- Environmental
- Electrical
- Cost
- Input from stakeholders
- Visual
- Special considerations

Please let us know what other factors are important to you so we can consider them when refining route options.

MORE INFORMATION

To learn more about the project and provide input, we invite you to join us at our community open house:

TUESDAY, NOVEMBER 24, 2015

JENNER SCHOOL

5:00 PM TO 7:30PM

Joss Wind is committed to sharing information about the project and working with the public to ensure that stakeholder input and concerns are heard and addressed. A summary of stakeholder comments will be incorporated into the application we submit to the AUC.

Next Steps

Scott Land & Lease Ltd. (Scott Land), on behalf of and in conjunction with Joss Wind, will undertake public consultation with stakeholders in the surrounding area. After the consultation process is complete, Joss intends to file a Facilities Application (FA) with the Alberta Utilities Commission (AUC) early in 2016. The AUC will then review the FA and either approve or deny the project.

Stakeholders are encouraged to participate throughout this process. We hope you will contact us if you have any questions or concerns about the project. Contact information can be found at the bottom of the page. To learn more about the AUC process and how you can become involved, please refer to the AUC Public Involvement brochure in this package. It will introduce the nine steps necessary to become involved in the decision making process.

Public Consultation & Providing your Input

Our aim for the project is to minimize potential impacts on the environment and the community. To date, Joss Wind has conducted environmental studies and we will have discussions with local landowners and stakeholders to design the project in a way that respects the needs of community members, and accounts for important environmental considerations.

Participating in a One-on-One Consultation

We will contact occupants, residents and landowners adjacent to the proposed project in order to gather input through one-on-one consultations. During the one-on-one process we will document the information you provide and address any questions or concerns you may have about the project.

Project Schedule*

Notify stakeholders	November 2015
Stakeholder consultation	Nov 2015 – Feb 2016
File application with Alberta Utilities Commission (AUC)	First quarter of 2016
Start construction if project is approved	First quarter of 2017
Construction completed	September 2017
In-service Date	October 2017

* This schedule is subject to change. We will continue to provide schedule updates if required as the project progresses.

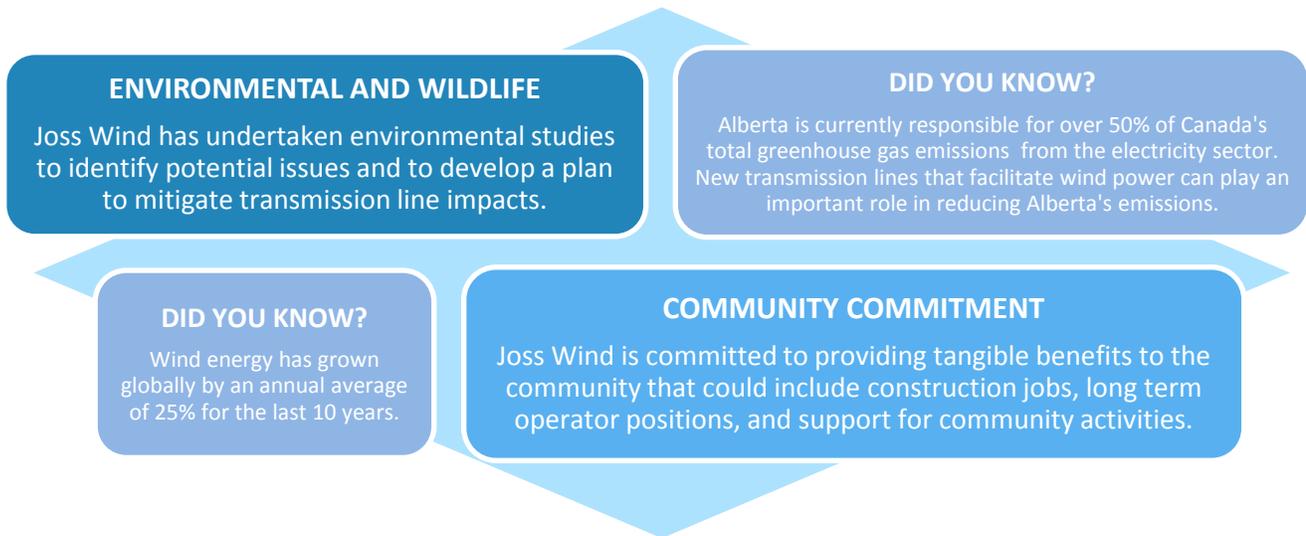
For additional information or to set up a personal consultation, you can contact Scott Land by telephone, email or mail.

**Suite 900, 202 – 6th Ave SW
Calgary, AB T2P 2R9
403-538-3253
jennerwind@scottland.ca**

Or contact Joss Wind as outlined on page 1

Who is Joss Wind Power?

We are a private Canadian company focused on commercial scale wind power exploration and development in western Canada. We have been active in Alberta for 10 years. Our business model targets primarily green field sites through the acquisition of comprehensive land holdings, the validation of the wind resource, and the completion of environmental, transmission and other key studies for each site. Our objective is to participate in one of the solutions to the growing need for clean energy while at the same time bringing economic benefits to the stakeholders involved, including landowners and the municipality.



Further Information

To learn more about the AUC 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

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

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 or you can make your concerns known to a Scott Land representative who will communicate them to the AESO on your behalf.

Electric and Magnetic Fields (EMF)

We recognize that some people have concerns about exposure to Electric and Magnetic Fields (EMF). If you have any questions or concerns about EMF you can contact Scott Land directly or see the Health Canada study link found at josswind.com/projects/jenner.

Privacy Commitment

Joss Wind is committed to protecting your privacy. Collected personal information will be protected under the provincial Personal Information Protection Act (PIPA). As part of the regulatory process for new transmission projects, Joss Wind may be required to provide your personal information to Alberta Utilities Commission (AUC). For more information about how Joss Wind protects your personal information, visit our website at josswind.com/projects/jenner or contact us directly via phone at (403) 984-9463 or by email: jenner.project@josswind.com.

**Attachment 4 – AltaLink’s Information Brochure – Jenner
Substation Circuit Breaker Addition (November 2015)**

Electric system improvements near you

Jenner Substation Circuit Breaker Addition

You are receiving this newsletter because you are near the Jenner Substation Circuit Breaker Addition project and we want your input.

Alberta has grown significantly in recent years and the demand for electricity has increased. Joss Wind Power Inc. has proposed a new wind farm development and an associated transmission line (to be called 949L) that connects the wind farm to the AltaLink Jenner Substation.

Although AltaLink's upgrades are a separate project from Joss Wind's project, they are required to facilitate the connection of Joss Wind's proposed transmission line and new wind farm development. Joss Wind Power Inc. will consult separately on the new wind farm development and the transmission line.

Project details

The proposed project involves adding new equipment to the Jenner Substation, located northeast of the city of Brooks near the hamlet of Jenner and within SE/NE-19-20-8-W4M.

The upgrades to the Jenner Substation include installing one new 240 kilovolt (kV) circuit breaker and other associated equipment. Circuit breakers are electrical switches inside a substation that protect substation equipment. Circuit breakers help ensure the safety and reliability of the electric system.

Approximately 25 metres (82 feet) of fenceline expansion to the north will be required to accommodate the new equipment at the Jenner Substation. AltaLink may also require temporary workspace during construction. All work will take place on AltaLink owned land.

Contact us

To learn more about the proposed project please contact:

ALTALINK 1-877-267-1453 (toll free)

E-mail: stakeholderrelations@altalink.ca Website: altalink.ca/about/contact-us

To learn more about the Joss Wind Power Inc. project please contact:

Joss Wind Power Inc. Phone: 403-984-9463

Email: jenner.project@josswind.com Website: josswind.com/projects/jenner

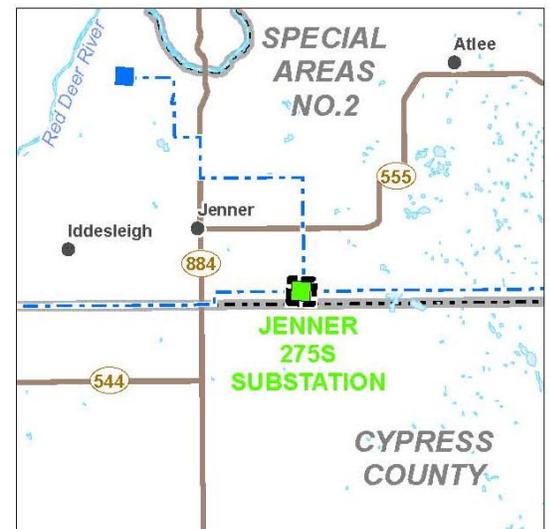
INCLUDED IN THIS INFORMATION PACKAGE:

- Project map
- AESO Need Overview
- AUC brochure: *Public Involvement in a proposed utility development*

DEFINITION:

Substation

Substations are the connection points between power lines of varying voltages and contain equipment that controls and protects the flow of power. Substations include transformers that step down and step up the voltage so power can be transmitted through transmission lines or distributed to your community through distribution lines.



LEGEND

- | | |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|  Potential Upgrade to Existing Substation |  Municipal or County Boundary |
|  Existing Substation |  Road |
|  Existing Transmission Line |  Water Body |
|  Hamlet or Locality | |

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

Email: 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	Late 2015
File application with Alberta Utilities Commission (AUC)	Early 2016
Start construction if project is approved	Fall 2016
Construction completed	August 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.

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 or contact us directly via e-mail privacy@altalink.ca or phone at 1-877-267-6760.

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

ALBERTA UTILITIES COMMISSION (AUC)

Phone: 780-427-4903 (toll-free by dialing 310-0000 before the number)

E-mail:

consumerrelations@auc.ab.ca

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



The Jenner Substation is pictured above.

SUBSCRIBE TO THIS PROJECT

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

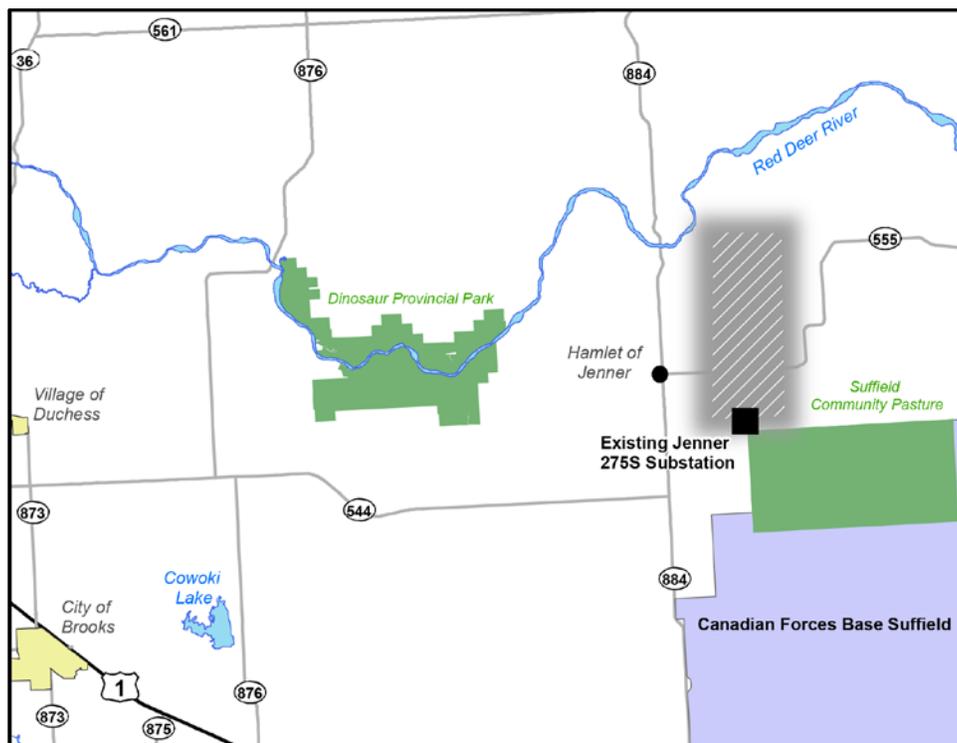
Attachment 5 – AESO Public Notification of NID Filing (AESO Website Posting)

AESO Public Notification of NID Filing

Addressing the Need for the Jenner Wind Energy Connection in the Brooks Area

The Alberta Electric System Operator (AESO) advises you that it intends to file a Needs Identification Document (NID) for the Jenner Wind Energy Connection with the Alberta Utilities Commission (AUC) on or after May 6, 2016.

Joss Wind Power Inc. (Joss Wind) has applied to the AESO requesting transmission system access to connect the proposed Jenner wind generating facility (Facility) in the Brooks area. On November 30, 2015, Joss Wind sold the Facility to Power Renewable Energy Corporation (PRE), and all required assignments of the interconnection rights were completed on February 2, 2016. This request can be met by constructing approximately 14 kilometres of 240 kilovolt (kV) transmission line to connect the Facility to the existing Jenner 275S substation, by modifying the existing Jenner 275S substation, including adding a 240 kV breaker, and by adding associated equipment as required to facilitate the Facility connection.



The shaded area on the map indicates the approximate location of the transmission facility developments, and the black square indicates the approximate location of the existing Jenner 275S substation, which is within SE/NE-19-20-8-W4M. AltaLink Management Ltd. (AltaLink) is the transmission facility owner (TFO) in the Brooks area. In separate applications, to be filed with the AUC, AltaLink and PRE will each describe their respective transmission facility developments and request AUC approval to construct and operate these transmission facilities. The specific line routes may extend beyond the area shown.

The AESO, Joss Wind, PRE and AltaLink presented this need to stakeholders, including residents, occupants and landowners, from November 2015 to April 2016. 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 it is filed, the NID will be posted on the AESO website at <http://www.aeso.ca/transmission/32831.html>

Please visit our website, www.aeso.ca for more information, or contact the AESO at 1-888-866-2959 or stakeholder.relations@aeso.ca

**Attachment 6 – AESO Stakeholder Newsletter NID Filing
Notice**

Jenner Wind Energy Connection – Notice of NID Filing

Joss Wind Power Inc. (Joss Wind) has applied to the AESO requesting transmission system access to connect the proposed Jenner wind generating facility (Facility) in the Brooks area. On November 30, 2015, Joss Wind sold the Facility to Power Renewable Energy Corporation (PRE), and all required assignments of the interconnection rights were completed on February 2, 2016.

This request can be met by constructing approximately 14 kilometres of 240 kilovolt (kV) transmission line to connect the Facility to the existing Jenner 275S substation, by modifying the existing Jenner 275S substation, including adding a 240 kV breaker, and by adding associated equipment as required to facilitate the Facility connection.

The AESO will be filing the Jenner Wind Energy Connection Needs Identification Document (NID) application with the Alberta Utilities Commission (AUC) on or after May 6, 2016, requesting that the AUC approve this NID.

The AESO has posted the public notification for its 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 Transmission > Needs Identification Documents > Jenner Wind Energy Connection to see all the relevant documents, including the NID application once it is filed with the AUC.