

APPENDIX C PARTICIPANT INVOLVEMENT PROGRAM (PIP)

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

1.2 Stakeholder Notification

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

- a description of the need for development;
- a description of the AESO's preferred option to respond to the system access service request;
- identification of the general area where facilities could be installed to implement the AESO's preferred option to respond to the system access service request;
- the AESO's contact information, including telephone, email and website, for further information; and
- the AESO's next steps, including the AESO's intention to apply to the 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/stirling-wind-project-connection/> on May 1, 2017 and a notice was published in the AESO Stakeholder Newsletter on May 2, 2017. Copies of the Need Overview posting and the AESO Stakeholder Newsletter notice have been included as Attachments 1 and 2, respectively. The Need Overview was also included with the TFO's project-specific information packages that were distributed to Stakeholders, as further described below.

Stakeholders Notified in the TFO's PIP

The TFO has advised the AESO that its PIP included notification within 800 m of the proposed transmission line right of way and within 100 m of the proposed fibre optic installation, in accordance with AUC Rule 007.

The TFO notified a total of approximately 62 stakeholders, of which 44 were classified as private or individual landowners, renters, Crown leaseholders, encumbrance holders or residents. The other 18 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
Alberta Agriculture and Forestry, Farmers Advocate Office	Provincial requirements
Alberta Culture and Tourism	Provincial requirements
Alberta Environment and Parks	Provincial requirements
Alberta Transportation	Provincial requirements
ATCO Pipelines	Pipeline owner in project area
Canadian Natural Resources Limited	Pipeline owner in project area
Canadian Pacific Railway Limited	Facility owner in project area
County of Warner	Municipal requirements (land use authority)
Ducks Unlimited Canada	Provincial requirements
Enbridge Inc.	Pipeline owner in project area
FortisAlberta Inc.	Distribution facility owner in project area
Irrigation Canal Power Co-op Ltd.	Generation facility owner in project area
Lethbridge County	Municipal requirements (land use authority)
NAV CANADA	Federal requirements
Pengrowth Energy Corporation	Pipeline owner in project area
Renaissance Energy Ltd.	Pipeline owner in project area
St. Mary River Irrigation District	Generation facility owner in project area
TELUS Communications Inc.	Telecommunication facility owner in project area

Attachments 3, 4 and 5 include the TFO's project newsletters, which were included in the three TFO project-specific information packages that were distributed to the Stakeholders described above between April 28, 2017 and October 5, 2017. The TFO's project newsletter included the

AESO's contact information, a description of the AESO's role, a reference to the AESO Need Overview, and an invitation to contact the TFO or the AESO for additional information.

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 Stirling Wind Project. A Market Participant Notification Letter, which included the AESO Need Overview, was sent to the notified market participants on October 25, 2017. The 8 notified market participants are as follows:

- Alberta Wind Energy Corporation
- BowArk Energy Ltd.
- EDF EN Canada Development Inc.
- ENMAX Energy Corporation
- Irrigation Canal Power Co-op Ltd.
- Signalta Resources Limited
- Suncor Energy Inc.
- TransAlta Corporation

A generic version of the Market Participant Notification Letter was posted to the AESO website on October 27, 2017 at <https://www.aeso.ca/grid/projects/stirling-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/stirling-wind-project-connection/> and a notice in the AESO Stakeholder Newsletter on November 14, 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

During consultation with the TFO, one Stakeholder raised a question about the AESO's plans for future development in the area. Specifically, the Stakeholder inquired about whether the 138 kV transmission line 820L could handle additional generation after the Stirling Wind Project is connected. The AESO's response including the following points:

"The AESO has determined that once the Stirling Wind Project is connected to 820L, there will be no more capacity for additional generation on 820L ... Any new generation facilities in the area that request a connection to the transmission system will be offered the opportunity to connect to other existing transmission facilities."

The TFO has advised that Stakeholders have not identified any other questions or concerns 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 (April 2017)
- Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice (May 2, 2017)
- Attachment 3 – TFO's Project Newsletter – *Stirling Wind Project Connection* (April 2017)
- Attachment 4 – TFO's Project Newsletter – *Stirling Wind Project Connection* (August 2017)
- Attachment 5 – TFO's Project Newsletter – *Stirling Wind Project Connection Fibre Optic Build* (August 2017)
- Attachment 6 – Market Participant Notification Letter (October 25, 2017)
- Attachment 7 – AESO Public Notification of NID Filing Website Posting (November 14, 2017)
- Attachment 8 – AESO Stakeholder Newsletter NID Filing Notice (November 14, 2017)

Attachment 1 – AESO Need Overview (April 2017)

Need for the Stirling Wind Project Connection in the Village of Stirling 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.

Stirling Wind Project LP by its General Partner, Stirling Wind Project Ltd., (SWLP) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Stirling Wind Project (the Facility) in the Village of Stirling area. SWLP's request can be met by the following solution:

> PROPOSED SOLUTION

- Add a 138 kilovolt (kV) transmission line to connect the Facility to the existing 138 kV transmission line 820L.
- 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.

> ALTALINK MANAGEMENT LTD:

- Is the transmission facility owner in the Village of Stirling 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.

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 (May 2, 2017)

Stirling Wind Project Connection – Need for Transmission Development in the Village of Stirling Area

Stirling Wind Project LP by its General Partner, Stirling Wind Project Ltd., (SWLP) has applied to the AESO for transmission system access to connect its proposed Stirling Wind Project (the Facility) in the Village of Stirling area. SWLP's request can be met by the following solution:

- Add a 138 kilovolt (kV) transmission line to connect the facility to the existing 138 kV transmission line 820L.
- 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 > Stirling Wind Project Connection.

Attachment 3 – TFO’s Project Newsletter – Stirling Wind Project Connection (April 2017)

Electric system improvements near you

Stirling Wind Project Connection

You are receiving this newsletter because you are near the Stirling Wind Project Connection and we want your input.

Stirling Wind Project LP (SWLP) has requested a connection to the **transmission** system for their proposed wind power project. AltaLink is proposing to construct a transmission line, operated and maintained by AltaLink, to connect SWLP's proposed Red Coat **Substation** to an existing AltaLink transmission line.

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

We are providing you with:

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

DEFINITIONS

Transmission

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

DEFINITIONS

Substation

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

CONTACT US

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

Visit us online at
www.altalink.ca/projects

Electric and Magnetic Fields

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

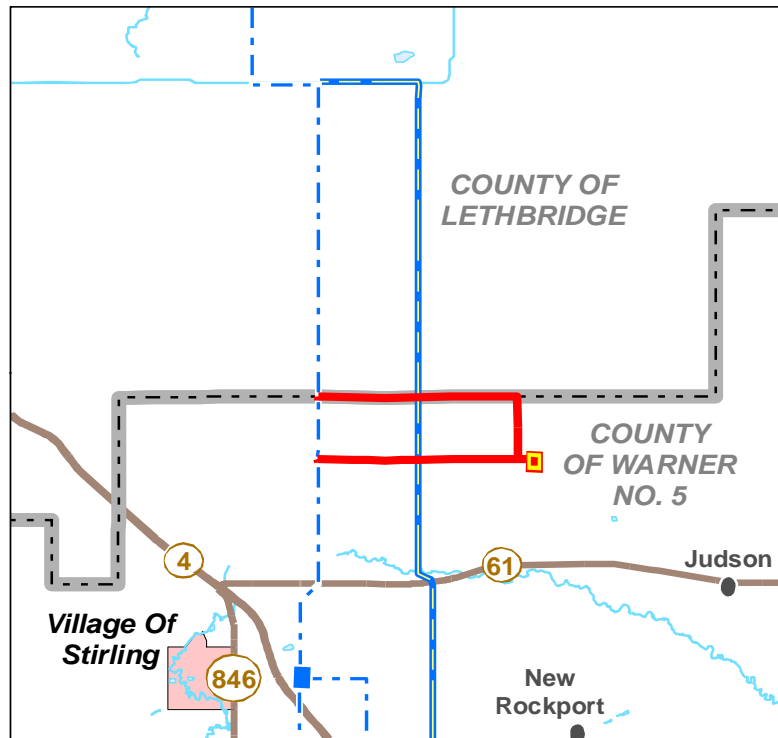
Everyone in our society is exposed to EMF from many sources, including:

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

National and international organizations such as the World Health Organization and Health Canada 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



LEGEND

- Proposed Red Coat Substation
- Existing Substation
- Potential Transmission Line
- - - Existing Transmission Line
- Existing 3rd Party Transmission Line
- Hamlet or Locality
- River or Stream
- Road
- Municipal or County Boundary
- Urban Area
- Water Body

Project details

SWLP has requested a connection to the transmission system to connect the proposed Red Coat Substation, which is part of SWLP's wind power project, to an existing AltaLink transmission line.

We are proposing to build approximately five to seven kilometres of 138 kilovolt (kV) transmission line. The final transmission line length is dependent on the final route selected, and approved, by the Alberta Utilities Commission (AUC).

Modifications south of the connection point on the existing transmission line, which may include adding new structures, will be required to accommodate the connection of the new transmission line. A telecommunications upgrade may also be required and will be confirmed through detailed engineering.

Anticipated project schedule

Notify and consult with stakeholders	Spring - Summer 2017
File application with Alberta Utilities Commission (AUC)	Fall 2017
Start construction if project is approved	Fall 2018
Construction complete	Spring 2019

Although we attempt to follow the anticipated project schedule, it is subject to change. We will continue to provide you with updated schedule information if required as the project progresses.



Single pole wood structure similar to the proposed



H-frame wood structure similar to the proposed



Airbreak steel structure similar to the proposed

Transmission structures

The proposed single circuit 138 kV transmission structures will:

- be either single pole or H-frame
- be either wood or steel
- be approximately 15 to 22 metres tall
- have a distance between structures of approximately 140 metres

The number of structures and specific structure types required for this connection will be determined after detailed engineering is completed.

Route selection

We have identified two potential routes that would be suitable to connect SWLP's proposed Red Coat Substation to an existing AltaLink transmission line. AltaLink's potential routes and SWLP's proposed substation are shown on the map included in this package. If the project is approved by the AUC, only one route will be built.

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

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

Additional temporary workspace, outside of the right-of-way or road allowance in certain areas may be required in order to access and construct the transmission line. The construction workspace is intended to be primarily used for equipment access during construction, including the potential stringing areas located behind some corner structures. Approximately 11 metres of right-of-way will be required on private property where the transmission line parallels the road. Where the line is on quarter line, approximately 20 metres of right-of-way will be required on private property. Additional right-of-way and construction workspace areas are shown on the attached strip map(s).

AltaLink will consult with all affected landowners regarding the potential requirement for permanent right-of-way and construction workspace. Final construction workspace and off right-of-way access will be determined following further detailed engineering and construction planning for the project and will be discussed with landowners prior to, and during construction of the line.

How to provide your input

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

We will refine our routing following consultation with stakeholders and then announce our final routes prior to filing an application with the AUC. The AUC will review the application through a process in which stakeholders can participate. We will notify stakeholders when we file the application and again once the AUC has reached a decision about the project.

To learn more about the AUC process and how you can become involved, please refer to the brochure included in this package titled *Public involvement in a proposed utility development*.

INCLUDED IN THIS
INFORMATION
PACKAGE:

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

Privacy Commitment

AltaLink is committed to protecting your privacy. Your personal information is collected and will be protected under AltaLink's Privacy Policy and Alberta's Personal Information Protection Act. As part of the regulatory process for new transmission projects, AltaLink may provide your personal information to the AUC. For more information about how AltaLink protects your personal information, visit our website at www.altalink.ca/privacy or contact us directly via email privacy@altalink.ca or phone at 1-877-267-6760.



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

Let's talk transmission

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



www.twitter.com/altalink



Contact us

To learn more about the proposed Stirling Wind Power Project Connection, please contact:

ALTALINK

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

To learn more about SWLP's wind power project, please contact:

STIRLING WIND PROJECT LP

Dan Tocher, Stakeholder Relations Manager
1-855-219-7207 (toll-free)
info@stirlingwind.com

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

ALBERTA ELECTRIC SYSTEM OPERATOR

1-888-866-2959 (toll-free)
stakeholder.relations@aeso.ca

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

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

ALBERTA UTILITIES COMMISSION

780-427-4903

(You can call toll-free by dialing 310-0000 before the number).

Email: utilitiesconcerns@auc.ab.ca

The AUC ensures the fair and responsible delivery of Alberta's utility services. AltaLink submits applications for new transmission projects to the AUC and the AUC reviews them in a public process.

Attachment 4 – TFO’s Project Newsletter – Stirling Wind Project Connection (August 2017)

Electric system improvements near you

Stirling Wind Project Connection

DID YOU KNOW?

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

You are receiving this newsletter because we would like to provide you with an update about our progress on the Stirling Wind Project Connection and we want your input.

Stirling Wind Project LP (SWLP) has requested a connection to the **transmission** system for their proposed wind power project. AltaLink is proposing to construct a transmission line to connect SWLP's proposed Red Coat **Substation** to an existing AltaLink transmission line.

What progress have we made?

After consulting with stakeholders in the area, AltaLink has identified two transmission route options - one preferred route and one alternate route.

We are providing you with:

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

DEFINITIONS

Transmission

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

DEFINITIONS

Substation

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

CONTACT US

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

Visit us online at
www.altalink.ca/projects

Electric and Magnetic Fields

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 the World Health Organization and Health Canada 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 electrical facilities.

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

Route selection

AltaLink takes several factors into consideration in an effort to find a route or routes with low overall environmental, social and economic effects. In addition to stakeholder input, some of the factors we consider include: agricultural, residential, environmental, visual impacts and cost factors.

While the alternate route presents a viable option, AltaLink has determined the preferred route is the best solution for the project. Compared to the alternate route, the preferred route has potentially lower agricultural, residential, environmental, and landowner impacts.

Based on further stakeholder feedback, the previously considered route option between SWLP's proposed Red Coat Substation and designation point D10 has been moved to the north side of Township Road 72. We plan to file our route options in a facilities application with the Alberta Utilities Commission (AUC) in the fall of this year. The AUC must approve the application before any construction can begin.

Preferred and alternate route

THE PREFERRED ROUTE

The preferred route was suggested by stakeholders and follows the north side of Township Road 72 from the proposed SWLP's Red Coat Substation to the existing 820L transmission line. This route is illustrated on the included maps SM1 and SM2. The route was selected as the preferred route because it:

- follows existing linear disturbances (no new fragmentation of lands)
- is located within the public government road allowance but will require permanent right-of-way between E8 to E9 as illustrated on the enclosed map
- is the most direct route (shortest line length)
- has the lowest potential agricultural impacts
- has lower potential residential and visual impacts

THE ALTERNATE ROUTE

The alternate route follows Township Road 72 from the proposed SWLP's Red Coat Substation (illustrated on the included SM1 map). The route turns north at the undeveloped government road allowance, from designation point D5 to N5 where the line turns west until it connects into the existing 820L transmission line at N10. It is illustrated on the included maps SM1, SM3 and SM4. The alternate route has the following characteristics:

- it is two kilometres longer than the preferred route
- it has low potential residential impacts
- it is located partly on government allowance road
- it has higher potential agricultural impacts
- it will require a right-of-way on private property

Updated project scope

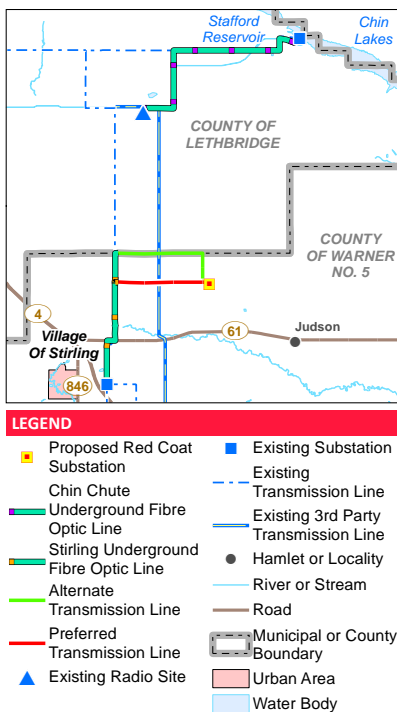
AltaLink will be installing optical ground wiring (also known as OPGW) on top of the new transmission line between the proposed SWLP's Red Coat Substation and the 820L transmission line for protection of the line and telecommunications purposes.

AltaLink will also be installing underground fibre optic line from the existing 820L transmission line to Stirling Substation and between the Chin Chute Substation to the Chin Coulee Radio site. If you are located directly or adjacent to the fibre optic line AltaLink will be notifying you of this project in a separate newsletter.

Project details

If approved the project involves:

- building a new 138 kV (kilovolt) transmission line, between five to seven kilometres long between the proposed SWLP's Red Coat Substation and the existing 820L transmission line
- modifications to the existing 820L transmission line at the connection point
- installing approximately 19 to 21 kilometres of underground fibre optic line
- adding OPGW along the transmission line



New transmission structures

- will be wood or steel 138 kV poles or steel H-frame structures
- will be approximately 13 to 23 metres tall
- will have a distance between structures of approximately 140 metres



Single pole wood structure



H-frame wood structure



Steel airbreak structure

Anticipated project schedule

Notify and consult with stakeholders	Spring to Summer 2017
File application with Alberta Utilities Commission (AUC)	Fall 2017
Start construction if project is approved	Winter 2019
Construction complete	Summer 2019

Although we attempt to follow the anticipated project schedule, it is subject to change. We will continue to provide you with updated schedule information if required as the project progresses.

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

Additional temporary workspace, outside of the right-of-way or road allowance in certain areas may be required in order to access and construct the transmission line.

AltaLink will consult with all affected landowners regarding the potential requirement for permanent right-of-way and construction workspace. Final construction workspace and off right-of-way access will be determined following construction planning for the project and will be discussed with landowners prior to, and during construction of the line.

How to provide your input

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

After our consultation process is complete AltaLink will file a Facilities Application with the AUC.

The AUC will review the application through a process in which stakeholders can participate. We will notify stakeholders when we file the application and again once the AUC has reached a decision about the project.

To learn more about the AUC process and how you can become involved, please refer to the brochure included in this package titled *Public involvement in a proposed utility development*.

INCLUDED IN THIS
INFORMATION
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- Project map
- AESO Need Overview
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2611 - 3rd Avenue SE
Calgary, Alberta T2A 7W7

Let's talk transmission

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



www.twitter.com/altalink



Contact us

To learn more about the proposed Stirling Wind Power Project Connection, please contact:

ALTALINK

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

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Email: utilitiesconcerns@auc.ab.ca

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Attachment 5 – TFO’s Project Newsletter – Stirling Wind Project Connection Fibre Optic Build (August 2017)

Stirling Wind Project Connection Fibre Optic Build

You are receiving this newsletter because we would like to provide you with information about the Stirling Wind Project Connection Fibre Optic Build and we want your input.

Stirling Wind Project LP (SWLP) has requested a connection to the transmission system for their proposed wind power project. AltaLink is proposing to construct a transmission line to connect SWLP's proposed Red Coat Substation to an existing transmission line. AltaLink is also proposing to construct two sections of underground **fibre optic cable**. This new fibre optic cable will allow for faster and more efficient communication between substations. There are two proposed sections of underground fibre optic cable, please see the maps included in this package for the locations. The exact route of the underground cable will be determined by the Alberta Utilities Commission (AUC) approval of our facilities application.

The fibre optic cable will:

- be inserted in conduit approximately three centimetres thick
- be buried a minimum of one metre underground

The Stirling underground fibre optic build will:

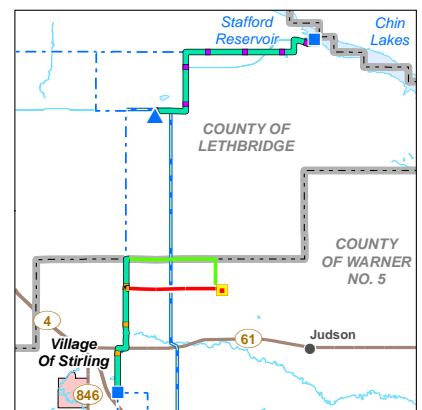
- be approximately six or eight kilometres long
- run from the existing 820L transmission line at designation point S10 or S5 to the Stirling Substation
- be fully located within the government road allowance

The Chin Chute underground fibre optic build will:

- be approximately 13 kilometres long
- connect the Chin Coulee Radio site to the Chin Chute Substation
- be fully located within government road allowance and required right of way

The fibre optic cable will be buried underground and will not be visible after construction is complete. During construction, you may notice work crews, heavy equipment and materials at and around the construction sites. Crews will only operate during regular work hours and there may be some temporary traffic delays during construction. In an effort to minimize disruption we will be notifying nearby residents and landowners a few weeks prior to construction activities commencing in your area.

AltaLink is also proposing a transmission line project in this area. For more information about the project, please visit our website:
altalink.ca/projects/view/260/stirling-wind-project-connection



LEGEND

Proposed Red Coat Substation	Existing Substation
Chin Chute Underground Fibre Optic Line	Existing Transmission Line
Stirling Underground Fibre Optic Line	Existing 3rd Party Transmission Line
Alternate Transmission Line	Hamlet or Locality
Preferred Transmission Line	River or Stream
Existing Radio Site	Road
	Municipal or County Boundary
	Urban Area
	Water Body



Above: Fibre optic cable being buried. You may see similar construction activities in your area.

Let's talk transmission

www.facebook.com/altalinktransmission



www.twitter.com/altalink



Anticipated project schedule

Notify and consult stakeholders	Summer to Fall 2017
File application with Alberta Utilities Commission (AUC)	Fall 2017
Start construction if project is approved	Winter 2019
Construction completed	Summer 2019

Although we attempt to follow the anticipated project schedule, it is subject to change. We will continue to provide you with updated schedule information if required as the project progresses.

Contact us

To learn more about the proposed fibre optic cable, please contact:

ALTALINK

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

For general information relating to telecommunications systems, please contact:

SPECTRUM, INFORMATION TECHNOLOGIES AND TELECOMMUNICATIONS

1-800-267-9401 (toll-free)
www.ic.gc.ca/towers

To learn more about SWLP's wind power project, please contact:

STIRLING WIND PROJECT LP

Dan Tocher, Stakeholder Relations Manager
1-855-219-7207 (toll-free)
info@stirlingwind.com

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

ALBERTA ELECTRIC SYSTEM OPERATOR

1-888-866-2959 (toll-free)
stakeholder.relations@aeso.ca

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

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

ALBERTA UTILITIES COMMISSION

780-427-4903
(You can call toll-free by dialing 310-0000 before the number).
Email: utilitiesconcerns@auc.ab.ca

The AUC ensures the fair and responsible delivery of Alberta's utility services. AltaLink submits applications for new transmission projects to the AUC and the AUC reviews them in a public process.

How to provide your input

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

After our consultation process is complete, AltaLink will fill a Facilities Application with the AUC.

The AUC will review the application through a process in which stakeholders can participate. We will notify stakeholders when we file the application and again once the AUC has reached a decision about the project.

To learn more about how you can become involved, please refer to the brochure included in this package titled *Public involvement in a proposed utility development*.



Attachment 6 – Market Participant Notification Letter (October 25, 2017)

October 25, 2017

[Notified Market Participant Legal Name]

[Notified Market Participant Address]

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

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

Re: **Need for the Stirling Wind Project Connection in the Village of Stirling Area**

The Alberta Electric System Operator (AESO) would like to advise you that Stirling Wind Project Ltd., (SWLP), has applied for transmission system access to connect its Stirling Wind Project (planned Facility) to the Alberta interconnected electric system (AIES) in the AESO South Planning Region.

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

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

Connection Assessment Findings

A connection assessment was carried out by the AESO to assess the transmission system performance following the connection of the planned Facility. This assessment did not identify any system performance issues under normal (Category A) system conditions. However, the connection assessment identified the potential for system performance issues to arise or be exacerbated, under certain Category B system conditions, following the connection of the planned Facility.

To mitigate these identified system performance issues, namely potential transmission constraints, real time operational practices and existing remedial action schemes (RASs) may be used. 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 assessment has identified source assets, including the **[Notified Market Participant Generation 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

The complete connection assessment will be included in the AESO's NID application for the project. Following submission to the AUC, the NID application will be posted on the AESO website at: <https://www.aeso.ca/grid/projects/stirling-wind-project-connection/>

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

Attachment: AESO Need Overview: *Need for the Stirling Wind Project Connection in the Village of Stirling area*

Need for the Stirling Wind Project Connection in the Village of Stirling 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.

Stirling Wind Project LP by its General Partner, Stirling Wind Project Ltd., (SWLP) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Stirling Wind Project (the Facility) in the Village of Stirling area. SWLP's request can be met by the following solution:

> PROPOSED SOLUTION

- Add a 138 kilovolt (kV) transmission line to connect the Facility to the existing 138 kV transmission line 820L.
- 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.

> ALTALINK MANAGEMENT LTD:

- Is the transmission facility owner in the Village of Stirling 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.

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 14, 2017)

Notification of Needs Identification Document Filing

Addressing the Need for the Stirling Wind Project Connection in the Village of Stirling Area

The Alberta Electric System Operator (AESO) advises you that it intends to file a Needs Identification Document (NID) for the Stirling Wind Project Connection with the Alberta Utilities Commission (AUC) on or after November 29, 2017.

Stirling Wind Project LP by its General Partner, Stirling Wind Project Ltd., (SWLP) has applied to the AESO for transmission system access to connect its proposed Stirling Wind Project (Facility) in the Village of Stirling area. SWLP's request can be met by the following solution:

- Add a 138 kilovolt (kV) transmission line to connect the Facility to the existing 138 kV transmission line 820L.
- 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 138 kV transmission line. The specific transmission facilities may extend beyond the shaded area shown.

AltaLink Management Ltd. is the transmission facility owner (TFO) in the Village of Stirling area. In April 2017, the AESO and the TFO 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/stirling-wind-project-connection/>

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

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

Attachment 8 – AESO Stakeholder Newsletter NID Filing Notice (November 14, 2017)

AESO Stakeholder Newsletter - November 14, 2017

Stirling Wind Project Connection – Notice of NID Filing

Stirling Wind Project LP by its General Partner, Stirling Wind Project Ltd., (SWLP) has applied to the AESO for transmission system access to connect its proposed Stirling Wind Project (Facility) in the Village of Stirling area. SWLP's request can be met by the following solution:

- Add a 138 kilovolt (kV) transmission line to connect the Facility to the existing 138 kV transmission line 820L.
- Add or modify associated equipment as required for the above transmission developments.

The AESO intends to file the Stirling Wind Project Connection Needs Identification Document (NID) application with the Alberta Utilities Commission (AUC) on or after November 29, 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 > Project > Stirling Wind Project Connection to see all the relevant documents, including the NID application once it is filed with the AUC.