

# Electric system improvements near you

Renewable Energy Systems Canada Forty Mile Wind Power Project Connection

You are receiving this newsletter because you are near the Renewable Energy Systems Canada Forty Mile Wind Power Project Connection and we want your input.

Renewable Energy Systems Canada Inc. (RES) 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 RES's potential Forty Mile **Substation** to AltaLink's Whitla Substation.

Although AltaLink's project is separate from RES's project, it is required to facilitate the connection of the proposed wind power project. Please contact RES 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/regionalprojects](http://www.altalink.ca/regionalprojects)

## 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 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.

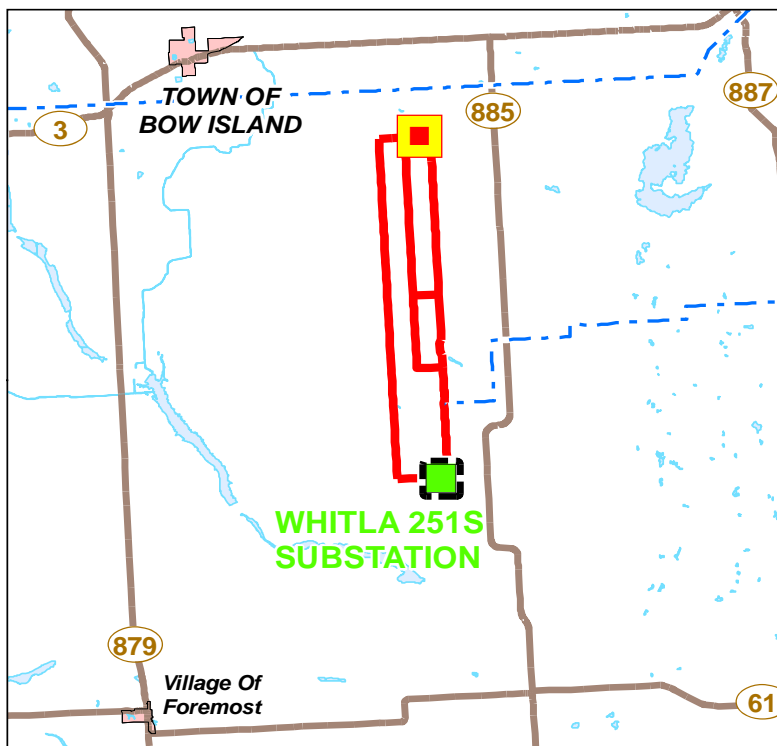
*If you have any questions about EMF please contact us:*

Website: [www.altalink.ca/emf](http://www.altalink.ca/emf)  
 Email: [emfdialogue@altalink.ca](mailto:emfdialogue@altalink.ca)  
 Toll-free phone number:  
 1-866-451-7817

## DEFINITIONS

### Circuit breaker

**Circuit breakers are electrical switches inside a substation that protect substation equipment. Circuit breakers help ensure the safety and reliability of the electric system**



## LEGEND

- Potential RES Forty Mile 516S Substation
- Potential Upgrade to Existing Substation
- Potential Transmission Line
- Existing Transmission Line
- Road
- Urban Area
- Water Body

## Project details

RES has requested a connection to the transmission system to connect AltaLink's existing Whitla Substation in NW 33-7-9 W4 to RES's potential Forty Mile Substation.

We are proposing to build approximately 25 to 28 kilometres of 240 kilovolt (kV) transmission line. Final transmission line length is dependent on the final route selected, and approved, by the Alberta Utilities Commission (AUC). Please see the maps included in this package for an overview of the potential transmission line routes.

A new 240 kV **circuit breaker** and other associated equipment will be needed at the Whitla Substation, which will not require any modifications to the existing substation layout. AltaLink will also be installing optical ground wiring (also known as OPGW) on top of the new transmission line for protection and telecommunications purposes.

## Anticipated project schedule

Notify and consult with stakeholders	Early 2017 - Late 2017
File application with Alberta Utilities Commission (AUC)	Spring 2018
Start construction if project is approved	Late 2018
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.*

## Transmission structures

The proposed single circuit 240 kV transmission structures will:

- be two pole H-frame
- be steel
- be approximately 17 to 25 metres tall
- have a distance between structures of approximately 200 to 250 metres
- have a right-of-way approximately 30 metres wide



*Two pole H-frame structure similar to the proposed*

## Route selection

We have identified three potential routes that would be suitable to connect the Whitla Substation to the potential RES Forty Mile Substation. After our first round of consultation we will refine our routing and then send information regarding preferred and alternate routes during the second round of consultation. If the project is approved by the AUC, only one route will be built. The routes and location of RES's potential substation are shown on the maps included in this package. 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.

## 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 the consultation process is complete we will file 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*.

## 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](http://www.altalink.ca/privacy) or contact us directly at [privacy@altalink.ca](mailto:privacy@altalink.ca) or phone at 1-877-267-6760.



*The existing Whitla Substation*

## Construction workspace and access

Information regarding construction workspace and access will be confirmed following the first round of consultation.

Further details will be provided to stakeholders during the second round of consultation for the project.

## OUR TRANSMISSION LINES TRANSPORT THE POWER YOU USE EVERY DAY

**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).**



INCLUDED IN THIS  
INFORMATION  
PACKAGE:

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

## Contact us

*To learn more about the proposed Renewable Energy Systems Canada Wind Power Project Connection, please contact:*

### **ALTALINK**

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

*To learn more about Renewable Energy Systems Canada Inc., please contact:*

### **RENEWABLE ENERGY SYSTEMS CANADA INC.**

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Ron.Galbraith@res-group.com  
403-866-6469

Lucas Reindler  
Project Manager  
Lucas.Reindler@res-group.com  
514-525-2113 Ext. 265

*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 (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](http://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 concerns known to an AltaLink representative who will collect your personal information for the purpose of addressing your questions and/or concerns to the AESO. This process may include disclosure of your personal information to the AESO.

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

### **ALBERTA UTILITIES COMMISSION (AUC)**

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

The Alberta Utilities Commission (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.



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### *Let's talk transmission*

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



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