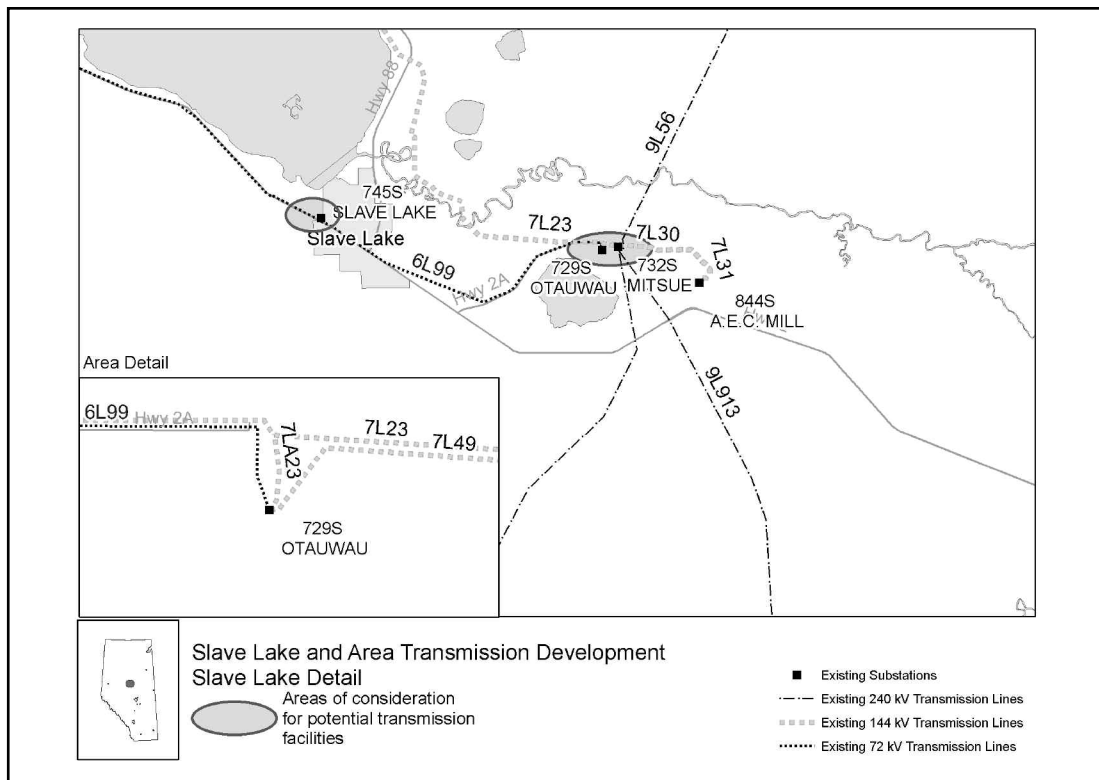


# Notification of Regulatory Filing for Transmission Development



The Alberta Electric System Operator advises you of our intention to file a Needs Identification Document with the Alberta Utilities Commission for transmission development in Slave Lake and the surrounding areas of High Prairie, Swan Hills and Valleyview.

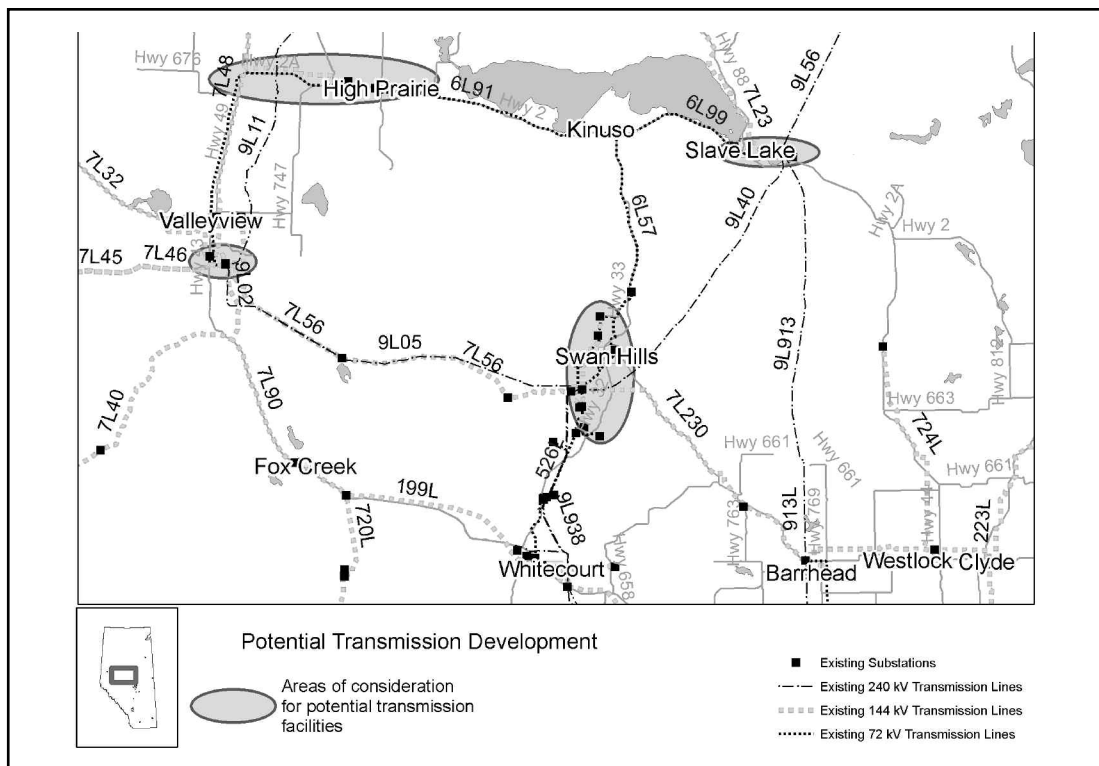
The AESO has identified the need to reinforce a section of the transmission system in Slave Lake and the surrounding areas of High Prairie, Swan Hills and Valleyview.

In the Slave Lake region, this need can be addressed by:

- Building a short 144 kV line to interconnect the existing 7LA23 line at Mitsue 732S substation
- Installing circuit breakers at the existing Otauwau 729S, Mitsue 732S and Slave Lake 745S substations to improve reliability

Demand for electricity in this general area has grown from 510 MW in 2002 to 532 MW in 2006 and is expected to reach 600 MW by 2016.

The target in-service date for these developments is 2011.



Overall area requiring transmission development

The AESO began public consultation for this project in 2008 and will submit a Needs Identification Document to the Alberta Utilities Commission on July 8, 2009.

A copy of our application is available on our web site, [www.aeso.ca](http://www.aeso.ca) and may be downloaded at (<http://www.aeso.ca/transmission/16386.html>). You may also contact us directly at 1-888-866-2959 or [stakeholder.relations@aeso.ca](mailto:stakeholder.relations@aeso.ca).

The AESO is committed to protecting your personal privacy in accordance with Alberta's Personal Information Protection Act. Any personal information collected by the AESO with regard to this project may be used to provide you with further information about the project, may be disclosed to the Alberta Utilities Commission (and as a result, may become public), and may also be disclosed to the eligible Transmission Facility Owner(s). If you have any questions about how the AESO will use and disclose your personal information collected with regard to this project, please contact us at 1-888-866-2959 or at [stakeholder.relations@aeso.ca](mailto:stakeholder.relations@aeso.ca).

 <small>Integrated Marketing Communications</small>	
Artist:	<b>2N</b>
<i>Production Only</i>	
Docket:	103062
Date:	June 15, 2009
Size:	10.12" x 143 max
Proof:	2
1 of 5	
Publication(s):	Slave Lake Scope (A)



# Notification of Regulatory Filing for Transmission Development

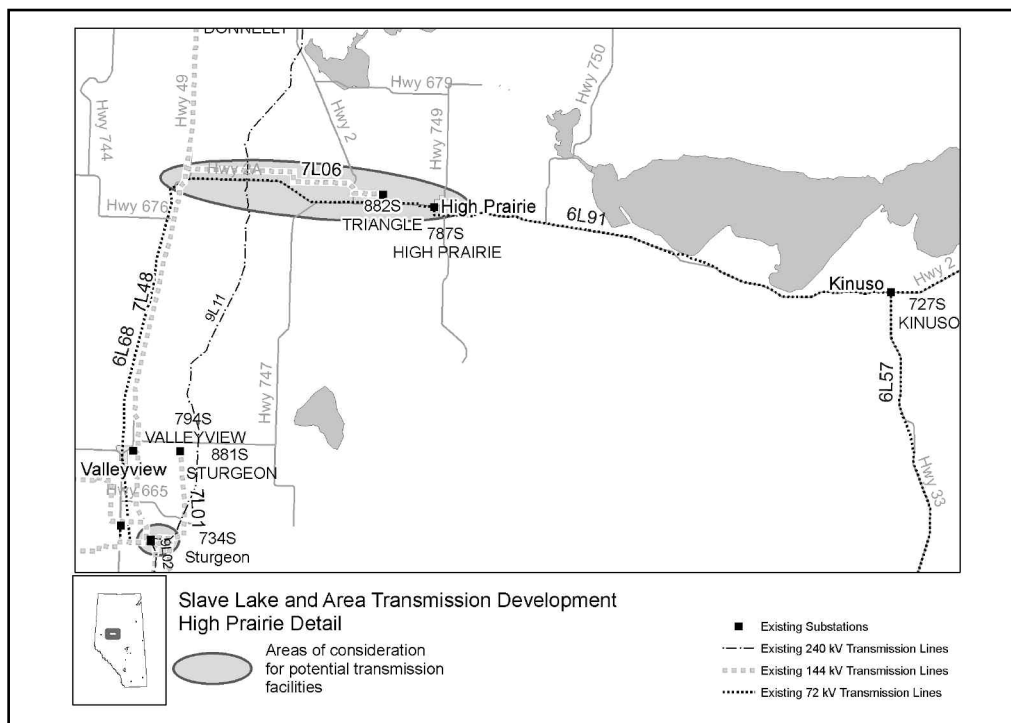
The Alberta Electric System Operator advises you of our intention to file a Needs Identification Document with the Alberta Utilities Commission for transmission development in High Prairie and the surrounding areas of Valleyview, Slave Lake and Swan Hills.

The AESO has identified the need to reinforce a section of the transmission system in High Prairie and the surrounding areas of Valleyview, Slave Lake and Swan Hills.

## AESO Preferred Options

In the High Prairie and Valleyview areas this need can be addressed by:

- Expanding the existing High Prairie 787S substation and adding a new 144 kV infrastructure including two 144/25 kV transformers. Salvage existing 72/25 kV transformers.
- Adding a 22 MVar capacitor bank at the existing High Prairie 787S substation
- Building approximately 10 km of new 144 kV line between existing Triangle 882S and High Prairie 787S substations
- Building approximately 44 km of new 144 kV line from the existing 7L48 line to High Prairie 787S substation
- Permanently taking out of service:
  - o The existing 72 kV line 6L68 between substation 794S at Sturgeon and substation 787S at High Prairie and associated 72 kV equipment
  - o The existing 72 kV line 6L91 between substation 787S at High Prairie and substation 727S at Kinuso and associated 72 kV equipment
- The AESO is proposing both lines above be taken permanently out of service and either converted for use as distribution lines or salvaged (removed). This determination will be made by transmission facility owner ATCO Electric and will not be decided in the AESO Needs Identification Document (NID) application.



The AESO application will also identify alternatives to the above preferred options. These alternatives will include:

- Adding a new substation at the junction of lines 7L48 and 7L06
- Construction of approximately 10 km 144 kV line from Triangle 882S to High Prairie 787S along with a 144/72 kV transformation station at High Prairie 787S
- Adding a 22 MVar capacitor bank at the existing Triangle 882S substation
- Building approximately 34 km of new 144 kV line from the existing 7L48 line to Triangle 882S substation

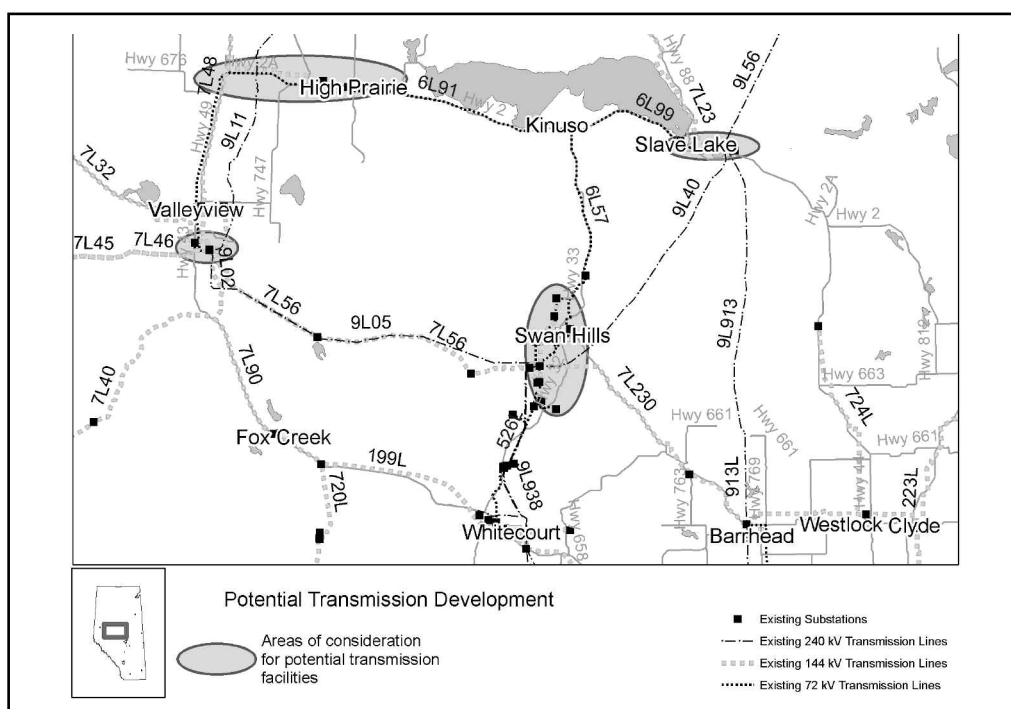
Demand for electricity in this general area has grown from 510 megawatts (MW) in 2002 to 532 MW in 2006 and is expected to reach 600 MW by 2016.

The target in-service date for these developments is 2011.

Overall area requiring transmission development

The AESO began public consultation for this project in 2008 and will submit a Needs Identification Document to the Alberta Utilities Commission on July 8, 2009.

A copy of our application is available on our web site, [www.aeso.ca](http://www.aeso.ca) and may be downloaded at (<http://www.aeso.ca/transmission/16386.html>). You may also contact us directly at 1-888-866-2959 or [stakeholder.relations@aeso.ca](mailto:stakeholder.relations@aeso.ca).



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Docket:	103062
Date:	June 15, 2009
Size:	8.37" x 220 max
Proof:	2
3 of 5	
Publication(s):	High Prairie South Peace Falher Smoky River Valleyview

# Notification of Regulatory Filing for Transmission Development

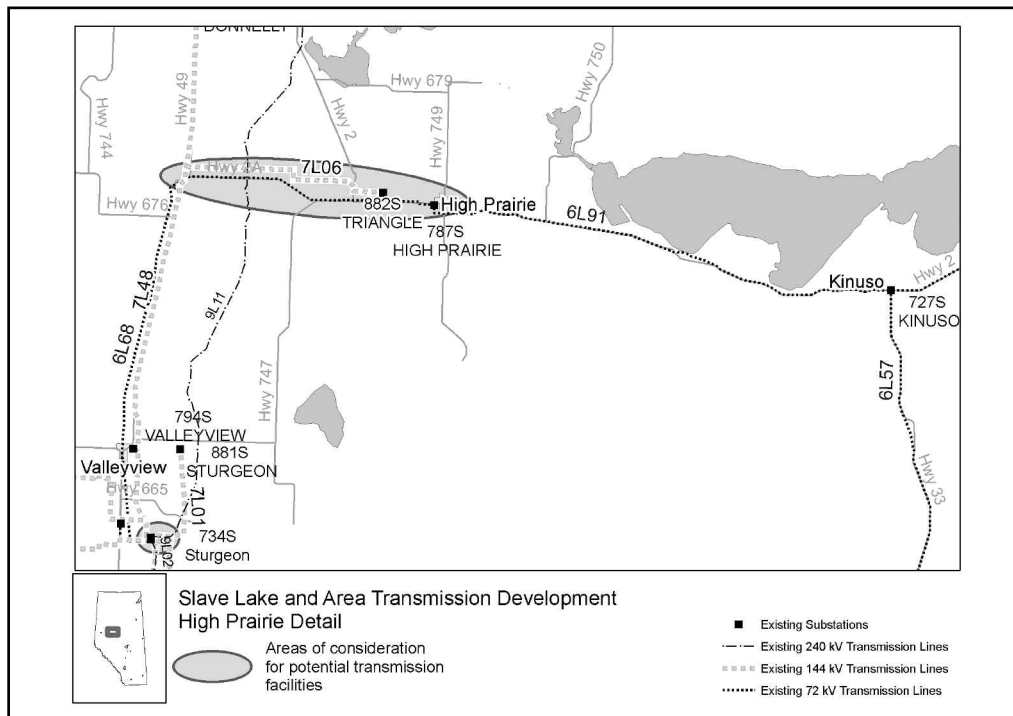
The Alberta Electric System Operator advises you of our intention to file a Needs Identification Document with the Alberta Utilities Commission for transmission development in High Prairie and the surrounding areas of Valleyview, Slave Lake and Swan Hills.

The AESO has identified the need to reinforce a section of the transmission system in High Prairie and the surrounding areas of Valleyview, Slave Lake and Swan Hills.

## AESO Preferred Options

In the High Prairie and Valleyview areas this need can be addressed by:

- Expanding the existing High Prairie 787S substation and adding a new 144 kV infrastructure including two 144/25 kV transformers. Salvage existing 72/25 kV transformers.
- Adding a 22 MVar capacitor bank at the existing High Prairie 787S substation
- Building approximately 10 km of new 144 kV line between existing Triangle 882S and High Prairie 787S substations
- Building approximately 44 km of new 144 kV line from the existing 7L48 line to High Prairie 787S substation
- Permanently taking out of service:
  - o The existing 72 kV line 6L68 between substation 794S at Sturgeon and substation 787S at High Prairie and associated 72 kV equipment
  - o The existing 72 kV line 6L91 between substation 787S at High Prairie and substation 727S at Kinuso and associated 72 kV equipment
- The AESO is proposing both lines above be taken permanently out of service and either converted for use as distribution lines or salvaged (removed). This determination will be made by transmission facility owner ATCO Electric and will not be decided in the AESO Needs Identification Document (NID) application.



The AESO application will also identify alternatives to the above preferred options. These alternatives will include:

- Adding a new substation at the junction of lines 7L48 and 7L06
- Construction of approximately 10 km 144 kV line from Triangle 882S to High Prairie 787S along with a 144/72 kV transformation station at High Prairie 787S
- Adding a 22 MVar capacitor bank at the existing Triangle 882S substation
- Building approximately 34 km of new 144 kV line from the existing 7L48 line to Triangle 882S substation

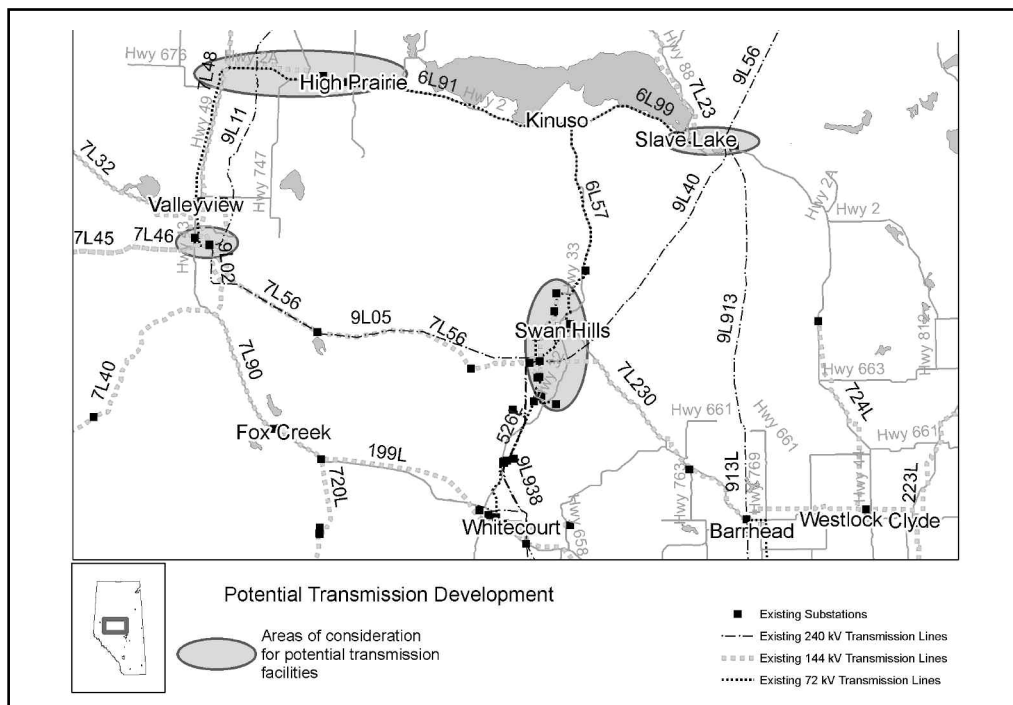
Demand for electricity in this general area has grown from 510 megawatts (MW) in 2002 to 532 MW in 2006 and is expected to reach 600 MW by 2016.

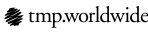
The target in-service date for these developments is 2011.

Overall area requiring transmission development

The AESO began public consultation for this project in 2008 and will submit a Needs Identification Document to the Alberta Utilities Commission on July 8, 2009.

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Docket:	103062
Date:	June 15, 2009
Size:	8.37" x 212 max
Proof:	2
4 of 5	
Publication(s):	Fox Creek (B)

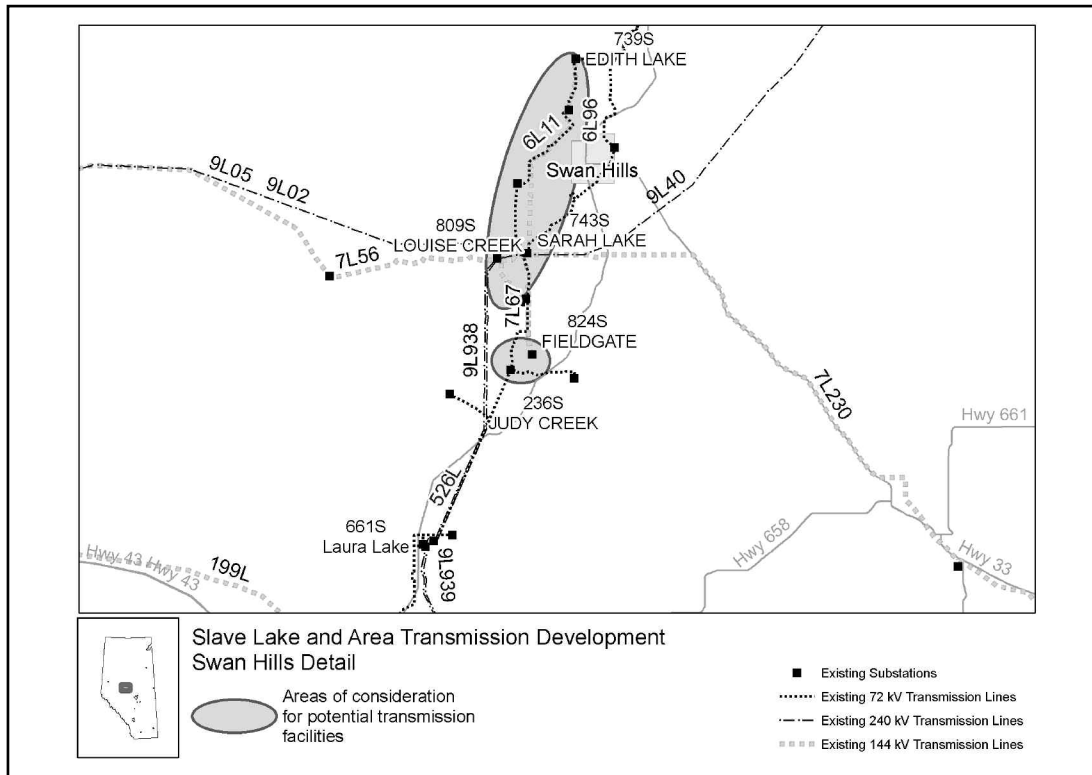
# Notification of Regulatory Filing for Transmission Development

The Alberta Electric System Operator advises you of our intention to file a Needs Identification Document with the Alberta Utilities Commission for transmission development in Swan Hills and the surrounding areas of Slave Lake, High Prairie and Valleyview.

The AESO has identified the need to reinforce a section of the transmission system in Swan Hills and the surrounding areas of High Prairie, Slave Lake and Valleyview.

In the Swan Hills region, this need can be addressed by:

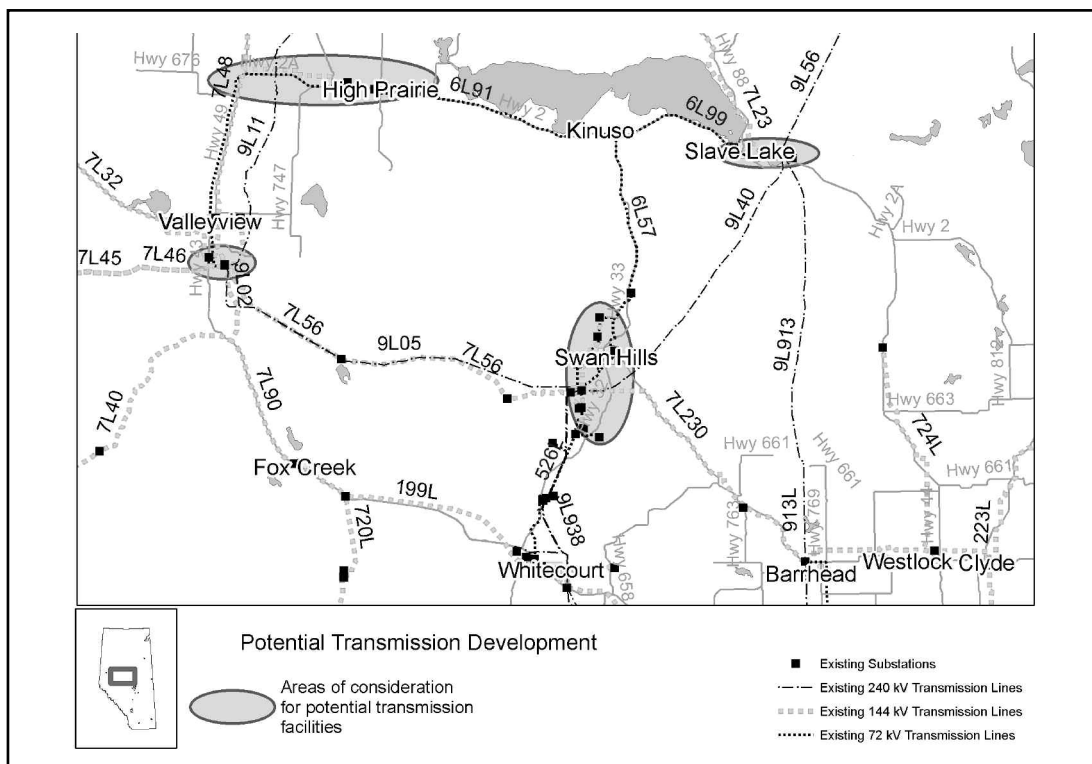
- Adding two 25 kV circuit breakers at the existing Fieldgate 824S substation
- Building approximately 31 km of new 144 kV line from the existing Edith Lake 739S substation to the Louise Creek 809S substation
- Removing from service the existing Judy Creek 236S substation and associated 69 kV line



Demand for electricity in this general area has grown from 510 MW in 2002 to 532 MW in 2006 and is expected to reach 600 MW by 2016.

The target in-service date for these developments is 2011.

Overall area requiring transmission development



The AESO began public consultation for this project in 2008 and will submit a Needs Identification Document to the Alberta Utilities Commission on July 8, 2009.

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Artist:	<b>2N</b>
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Docket:	103062
Date:	June 15, 2009
Size:	8.37"
Proof:	2
5 of 5	
Publication(s):	Swan Hills Grizzly Gazette (C)