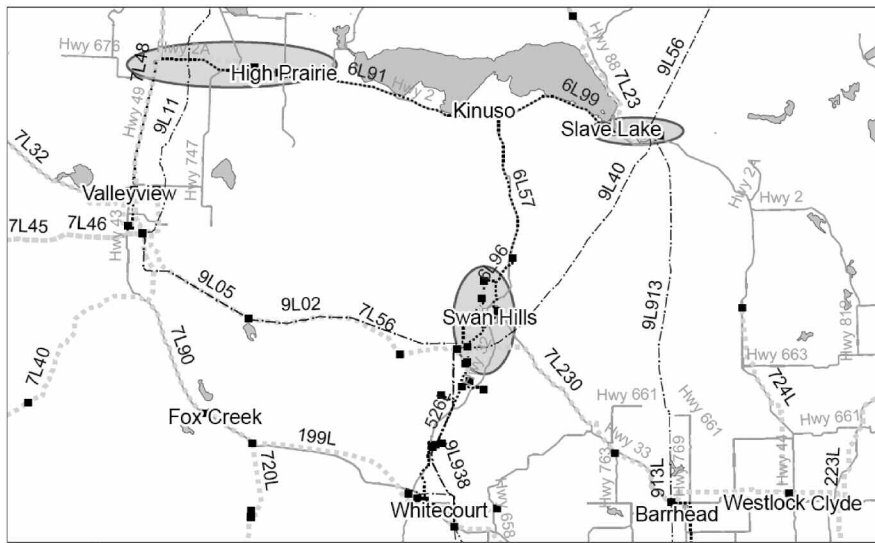


# Potential Transmission development in the High Prairie area



The Alberta Electric System Operator (AESO) has verified the need to reinforce the electricity transmission system in the High Prairie area and the surrounding areas of Slave Lake, Swan Hills and Valleyview. Demand for electricity has grown from 510 MW in 2002 to 532 MW in 2006 and is expected to reach 600 MW by 2016. The areas of study for the potential developments are shown on the maps.

The target in-service date for these developments is 2010.

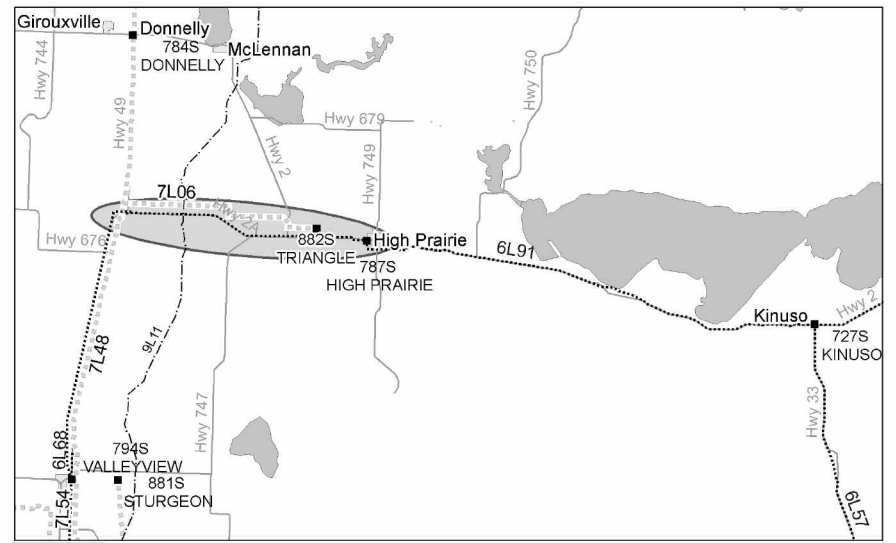
**No proposals have been made and no final decisions have been made at this time.**

We are preparing an application for submission to the Alberta Utilities Commission and would like to collect your feedback and suggestions for consideration in our application. Please provide comment to:

**Doug Downs**  
**AESO**  
**2500, 330 5th Ave SW**  
**Calgary, AB**  
**T2P 0L4**

**stakeholder.relations@aeso.ca**  
**1.888.866.2959**

**www.aeso.ca**



The shaded area in the map illustrates the area of study for locating facilities. The AESO is currently considering three options for transmission upgrades in the High Prairie area.

Potential Development	Option:	1	2	3
• Add a new substation at the junction of lines 7L48 and 7L06.		●		
• Expand the existing High Prairie 787S substation and add new 144 kV infrastructure including 144/72-25 kV transformer. Salvage existing 72/25 kV transformers as required.		●	●	●
• Add a 15 MVar capacitor bank at the existing High Prairie 787S substation.		●		●
• Add a 15 MVar capacitor bank at the existing Triangle 882S substation.			●	
• Build approximately 10 km of new 144 kV line between existing Triangle 882S and High Prairie 787S substations.		●	●	●
• Build approximately 34 km of new 144 kV line from the existing 7L48 line to Triangle 882S substation.			●	
• Build approximately 42 km of new 144 kV line from the existing 7L48 line to High Prairie 787S substation.				●
• Take 6L68 Sturgeon 734S to High Prairie 787S and 6L91 High Prairie 787S to Kinuso 727S permanently out of service. The lines may be salvaged or converted for use as distribution lines.			●	●

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