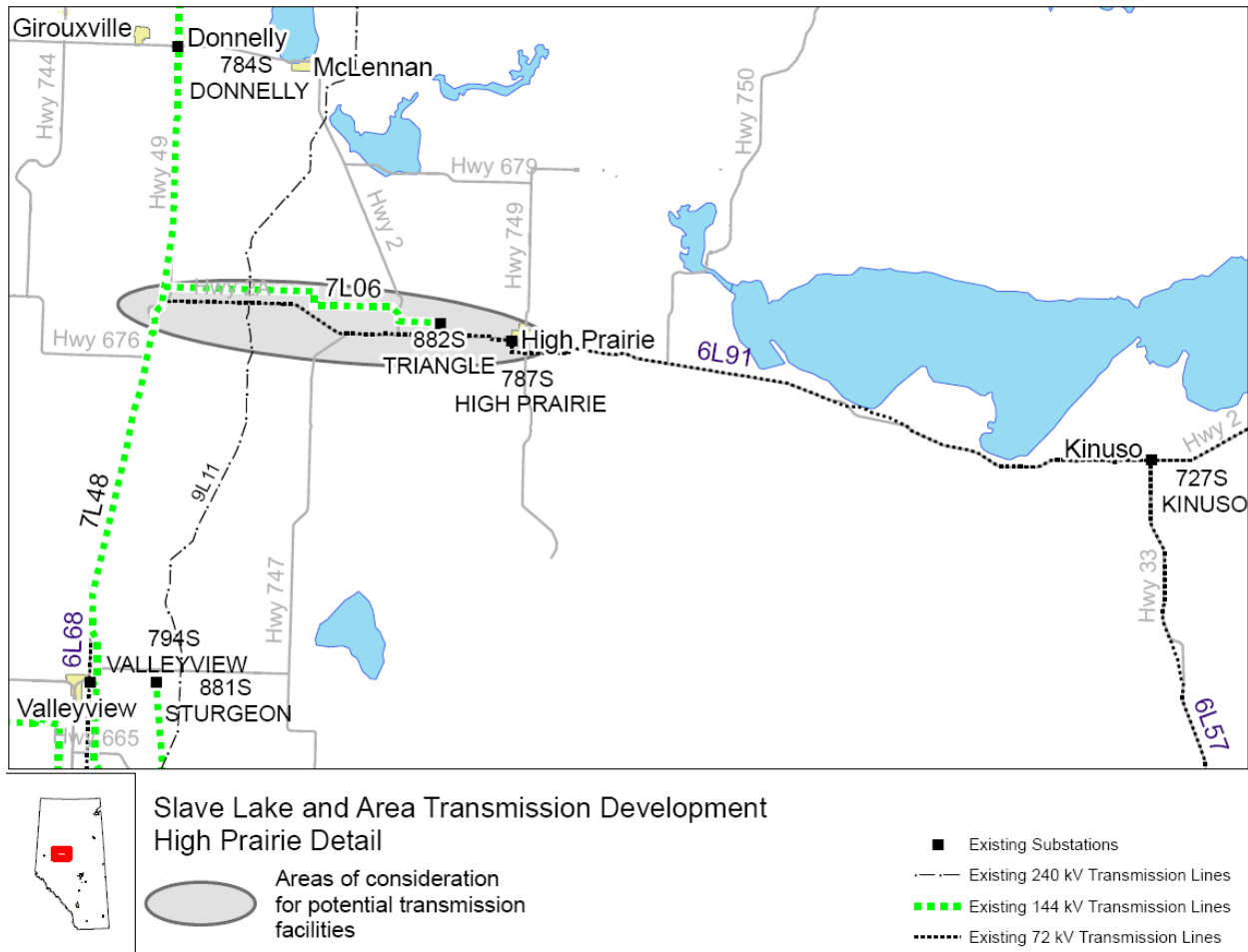


High Prairie Area Transmission Upgrades

To meet load growth and replace aging infrastructure, the AESO has identified the need to reinforce the transmission system in the High Prairie area.



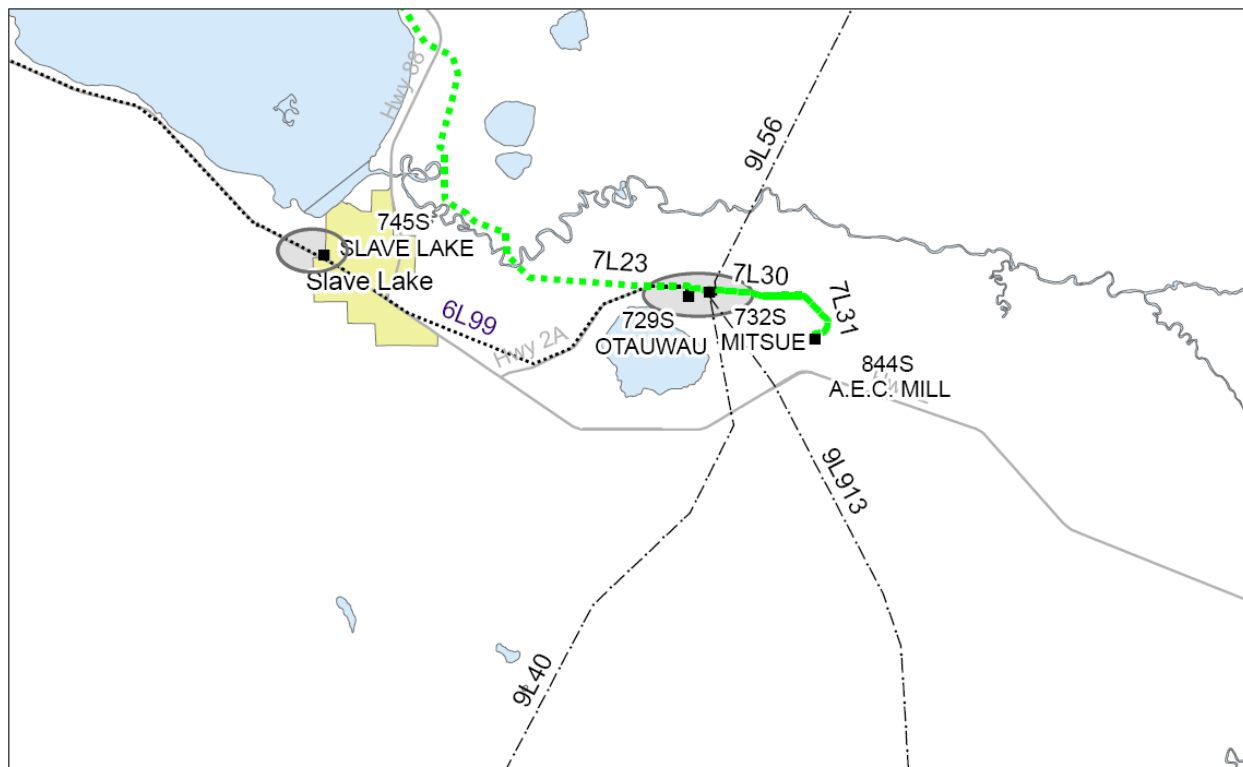
What kind of electric transmission reinforcement is needed?

The AESO is currently considering three options for transmission upgrades in the High Prairie area. The potential developments for these options are as follows:

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.			✓	✓

Slave Lake Area Transmission Upgrades

To meet load growth and replace aging infrastructure, the AESO has identified the need to reinforce the transmission system in the Slave Lake area.



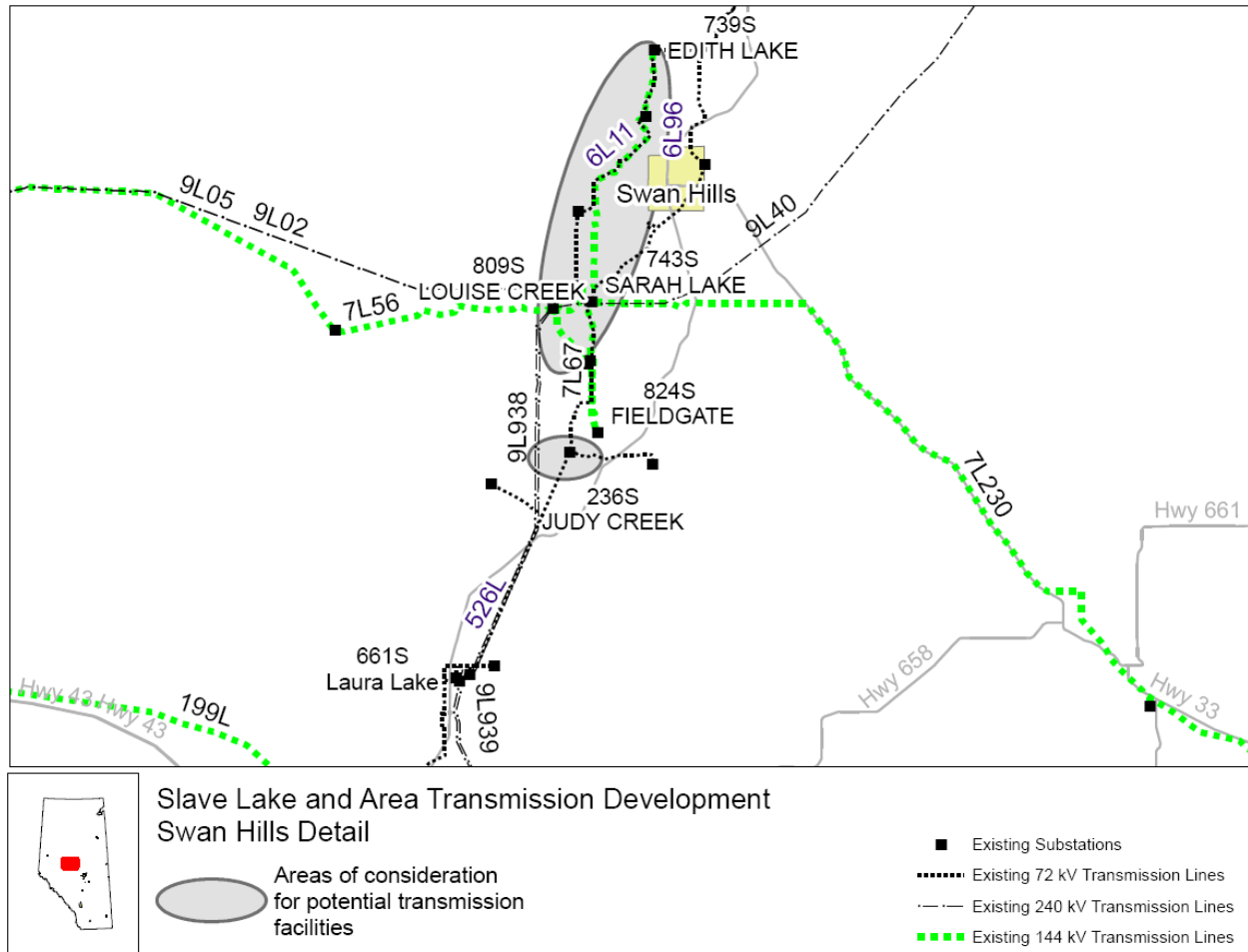
What kind of electric transmission reinforcement is needed?

The AESO is currently considering the following potential developments for transmission upgrades in the Slave Lake area:

- Build a short 144 kV line to interconnect the existing 7LA23 line at Mitsue 723S substation.
- Install circuit breakers at the existing Otauwau 729S, Mitsue 732S and Slave Lake 745S substations to improve reliability.

Swan Hills Transmission Reinforcement

To meet load growth and replace deteriorating infrastructure, the AESO has identified the need to reinforce the transmission system in the Swan Hills area.



What kind of electric transmission reinforcement is needed?

The AESO is currently considering the following potential developments for transmission upgrades in the Swan Hills area:

- At the existing Fieldgate 824S substation, add two 25 kV circuit breakers.
- Build approximately 27 to 31 km of new 144 kV line from the existing Edith Lake 739S substation to either Louise Creek 809S substation or Sarah Lake 743S substation.
- Salvage the existing Judy Creek 236S substation.
- Salvage or decommission the existing 526L line from Judy Creek 236S substation to the Laura Lake 661S junction.

The AESO will identify the preferred development in each area based on stakeholder feedback and technical and economic analysis.

Where will the new lines be proposed?

The AESO intends to file a Need Information Document later this year with the Alberta Utilities Commission (AUC). This document will include preliminary information about the location of the potential substation and transmission lines; as well as a high-level assessment of overall land use and social impacts.

Once the need for the preferred development is approved, the Transmission Facility Owner, ATCO Electric, will develop and file one or more detailed Facilities Applications with the AUC for permit to construct and licence to operate the proposed facilities. These applications will include recommendations for specific siting and routing and will be developed with further public consultation and submitted to the AUC for approval.

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

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