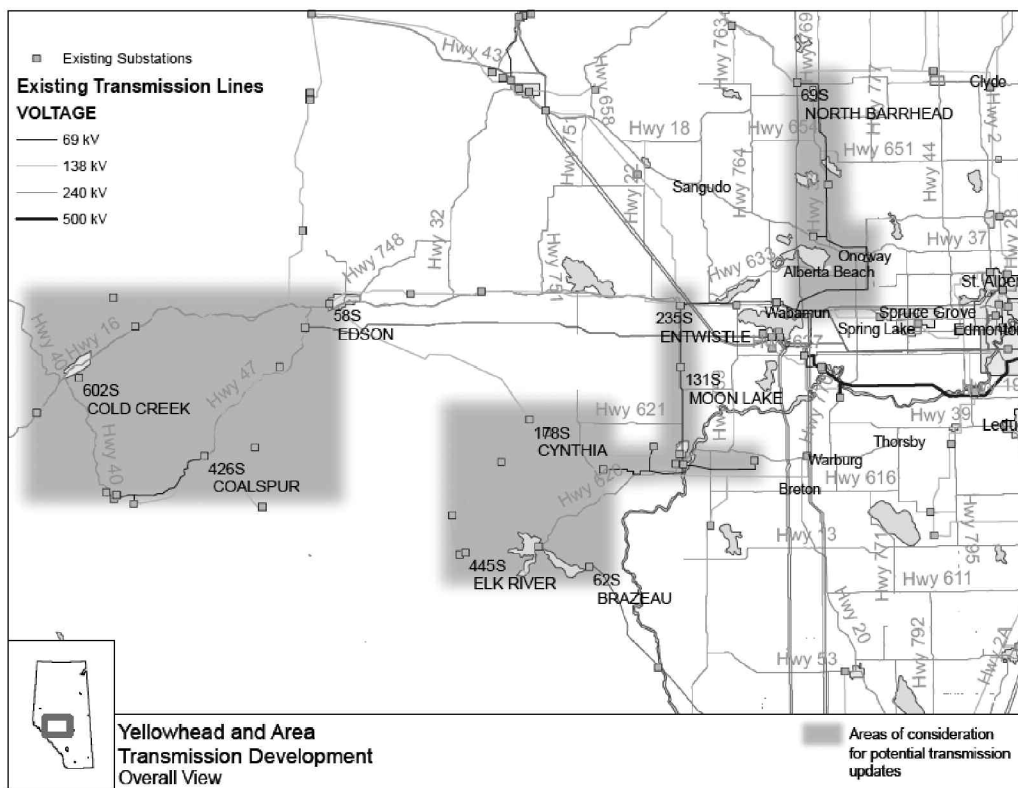


# Potential Transmission Development in the Alberta Beach Area



The Alberta Electric System Operator (AESO) has verified the need to reinforce the electric transmission system in Yellowhead and surrounding areas, specifically in the Drayton Valley, Hinton/Edson and Alberta Beach Areas. Demand for electricity is expected to grow from 423 MW in 2007 to 633 MW by 2017. The areas of study for the potential developments are shown on the maps.

The target in-service date for these developments is the period from the second quarter of 2010 to the third quarter of 2013.

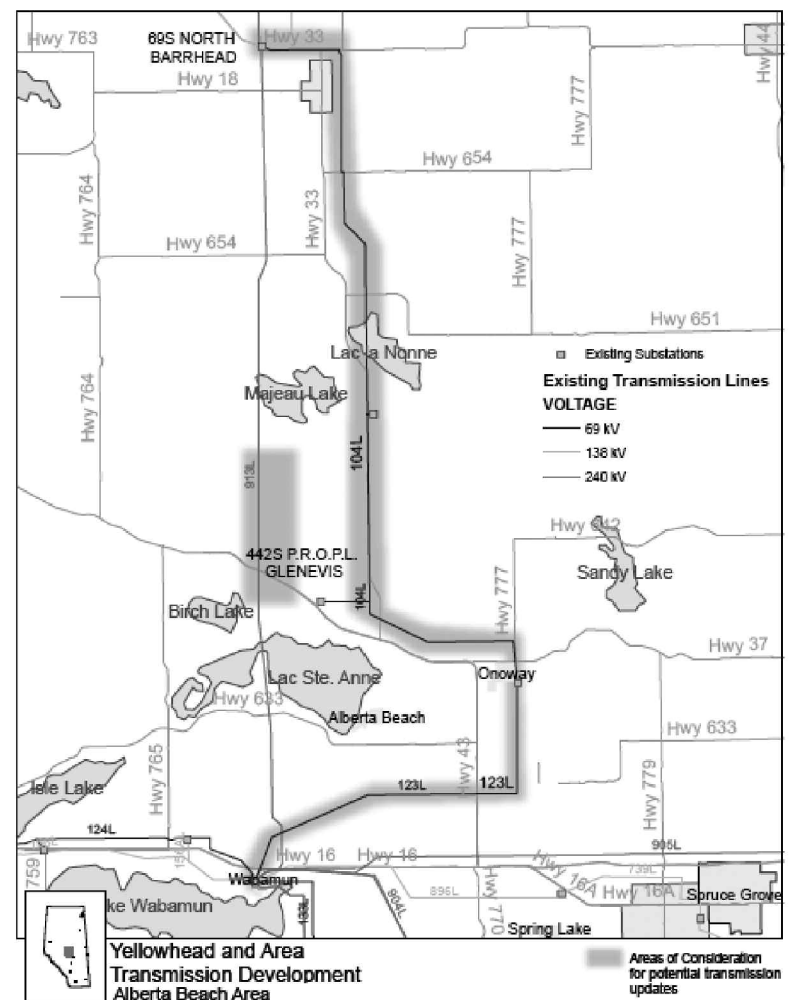
**No final decisions have been made at this time.**

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

Marina Lakhani  
AESO  
2500, 330 5th Ave SW  
Calgary, AB  
T2P 0L4

stakeholder.relations@aeso.ca  
1.888.866.2959

[www.aeso.ca](http://www.aeso.ca)




The shaded area in the map illustrates the area of study for locating facilities. The AESO is currently considering the following potential development options for transmission upgrades in the Alberta Beach Area:

Either:

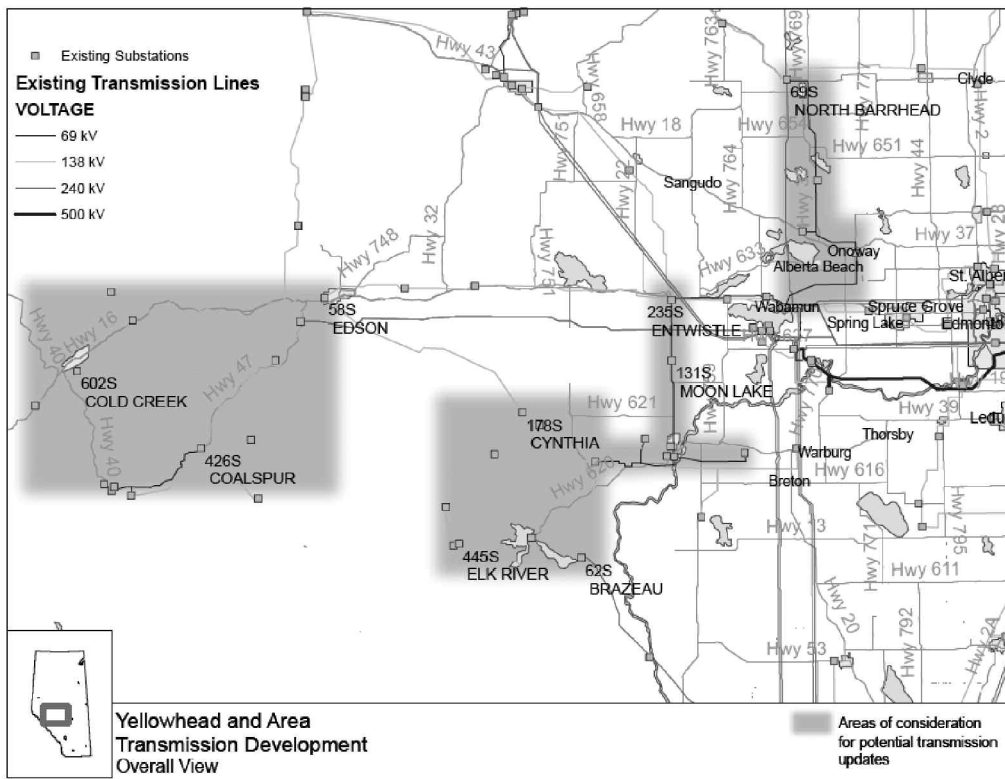
- Build a new 240/25 kV substation in the Cherhill Area and decommission the existing 69 kV line (104L) from North Barrhead to Onoway substation and Lac La Nonne and PROPL Glenevis substations.

OR

- Rebuild existing 104L from North Barrhead substation to Onoway substation to current standards on the existing right-of-way.
- Replace the existing 138/69 kV transformer at North Barrhead substation with a transformer of larger capacity
- Add a capacitor bank at Onoway substation

 <small>Integrated Marketing Communications</small>	
<b>Artist:</b>	<b>2N</b>
<b>Production Only</b>	
<b>Docket:</b>	103037
<b>Date:</b>	Dec 2, 2008
<b>Size:</b>	10.25"
<b>Proof:</b>	1
<b>AB: 1 of 3</b>	
<b>Publication(s):</b>	Stony Plain SprGrove

# Potential Transmission Development in the Alberta Beach Area



The Alberta Electric System Operator (AESO) has verified the need to reinforce the electric transmission system in Yellowhead and surrounding areas, specifically in the Drayton Valley, Hinton/Edson and Alberta Beach Areas. Demand for electricity is expected to grow from 423 MW in 2007 to 633 MW by 2017. The areas of study for the potential developments are shown on the maps.

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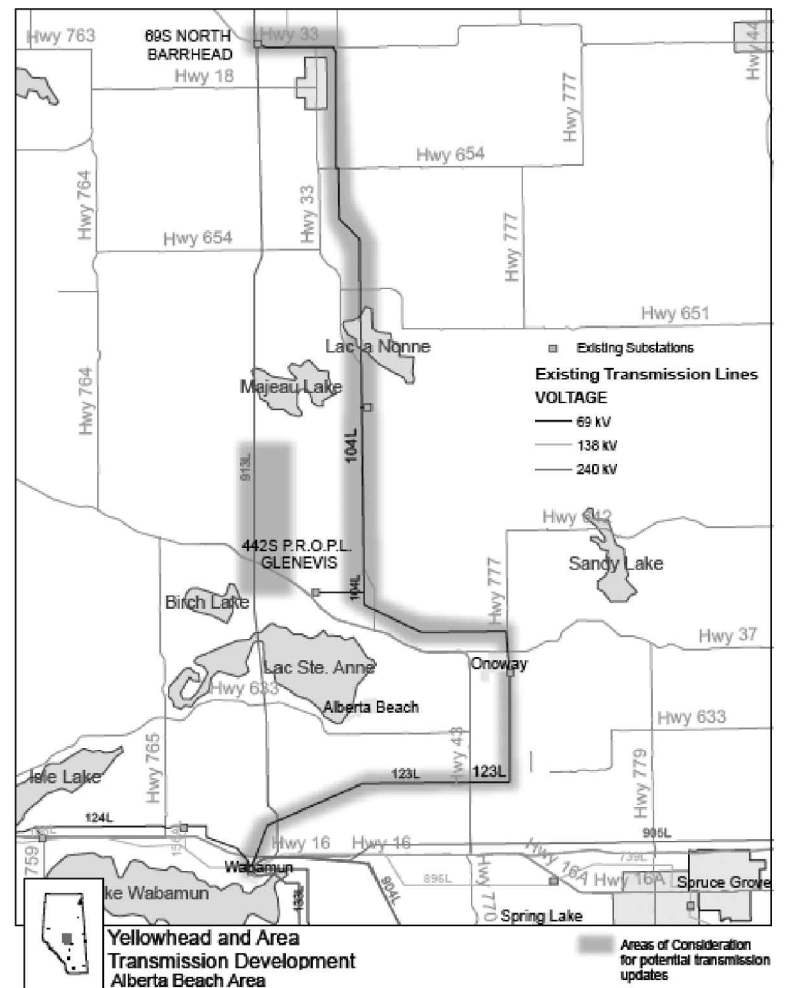
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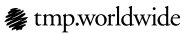
The shaded area in the map illustrates the area of study for locating facilities. The AESO is currently considering the following potential development options for transmission upgrades in the Alberta Beach Area:

Either:

- Build a new 240/25 kV substation in the Cherhill Area and decommission the existing 69 kV line (104L) from North Barrhead to Onoway substation and Lac La Nonne and PROPL Glenevis substations.

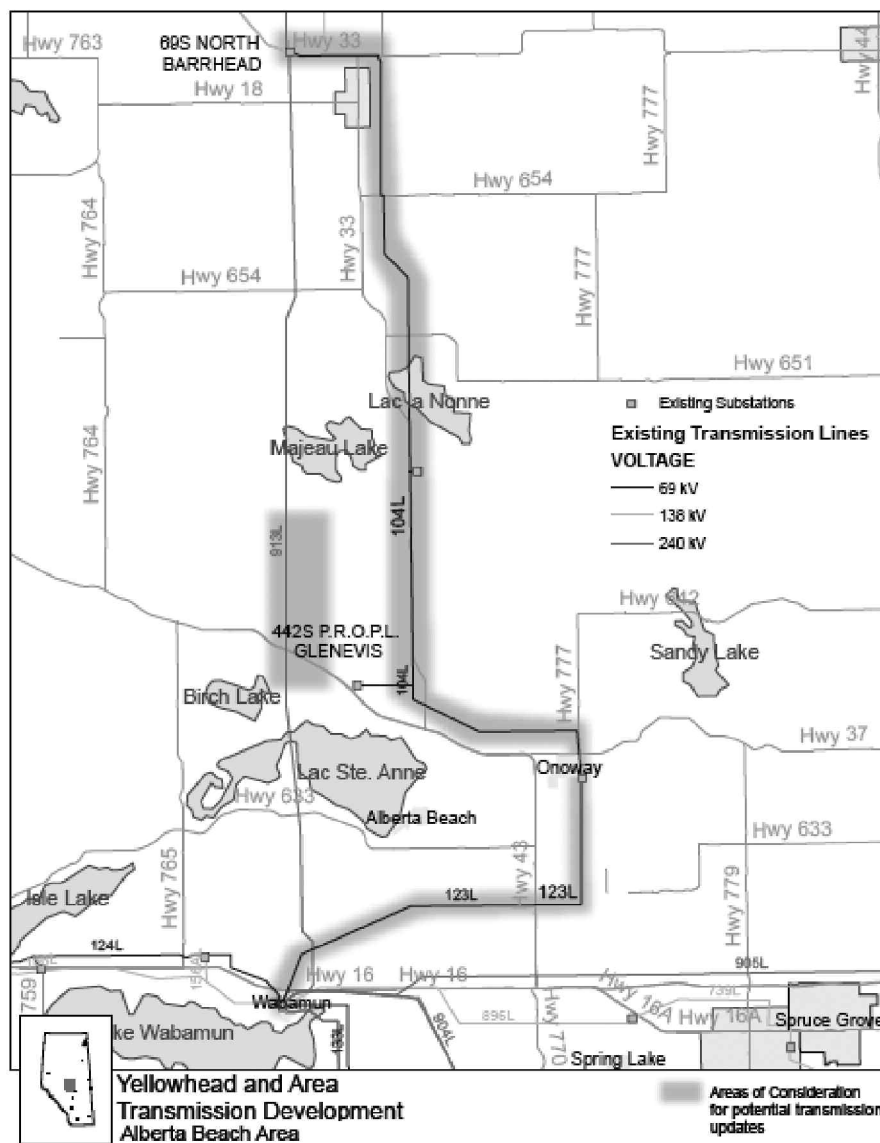
OR

- Rebuild existing 104L from North Barrhead substation to Onoway substation to current standards on the existing right-of-way.
- Replace the existing 138/69 kV transformer at North Barrhead substation with a transformer of larger capacity
- Add a capacitor bank at Onoway substation

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Docket:	103037
Date:	Dec 2, 2008
Size:	10.25"
Proof:	1
AB: 3 of 3	
Publication(s):	Barrhead Leader



## Potential Transmission Development in the Alberta Beach Area



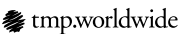
The shaded area in the map illustrates the area of study for locating facilities. The AESO is currently considering the following potential development options for transmission upgrades in the Alberta Beach Area:

Either:

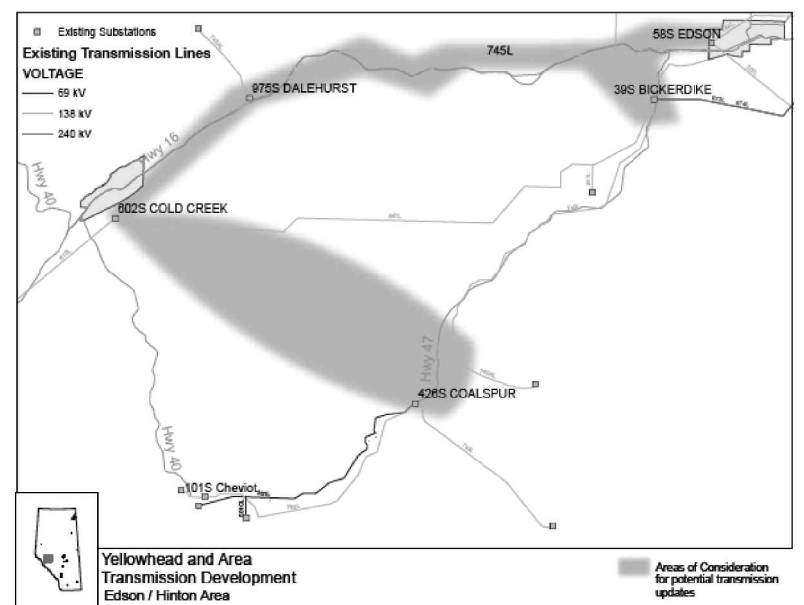
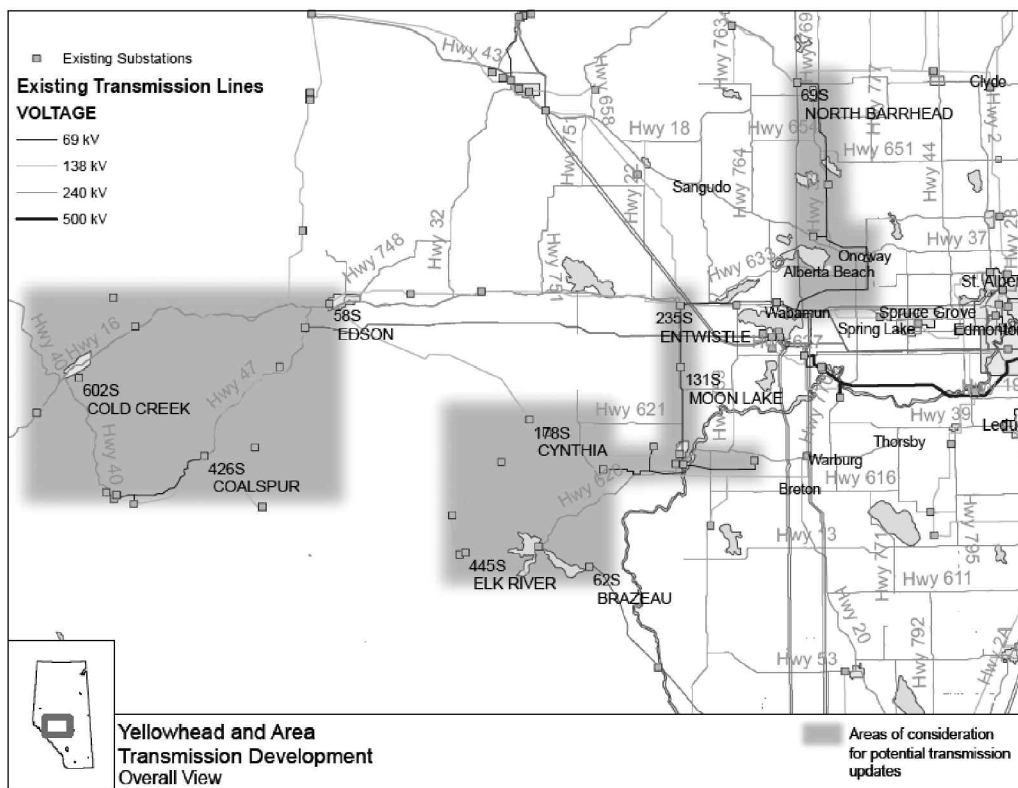
- Build a new 240/25 kV substation in the Cherhill Area and decommission the existing 69 kV line (104L) from North Barrhead to Onoway substation and Lac La Nonne and PROPL Glenevis substations.

OR

- Rebuild existing 104L from North Barrhead substation to Onoway substation to current standards on the existing right-of-way.
- Replace the existing 138/69 kV transformer at North Barrhead substation with a transformer of larger capacity
- Add a capacitor bank at Onoway substation

 Integrated Marketing Communications	
Artist:	<b>2N</b>
<b>Production Only</b>	
Docket:	103037
Date:	Dec 2, 2008
Size:	6.75" x 135 ag
Proof:	1
AB: 2B of 3	
Publication(s):	Wabamun Onoway

# Potential Transmission Development in the Edson/ Hinton Area



The shaded area in the map illustrates the area of study for locating facilities. The AESO is currently considering these potential developments for transmission upgrades in the Edson/Hinton areas:

- Place a new capacitor bank at Cold Creek substation.
- Either
  - Build a new 138 kV line from Coalspur substation area to Cold Creek substation.
- OR
  - Replace existing 138 kV line from Edson substation to Cold Creek with larger conductors. This would require tearing down and replacing the existing line likely using the same right of way.
- Build approximately six km double-circuit 138 kV line from Bickerdike substation to connect into 745L line.

The Alberta Electric System Operator (AESO) has verified the need to reinforce the electric transmission system in Yellowhead and surrounding areas, specifically in the Drayton Valley, Hinton/Edson and Alberta Beach Areas. Demand for electricity is expected to grow from 423 MW in 2007 to 633 MW by 2017. The areas of study for the potential developments are shown on the maps.

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**No final decisions have been made at this time.**

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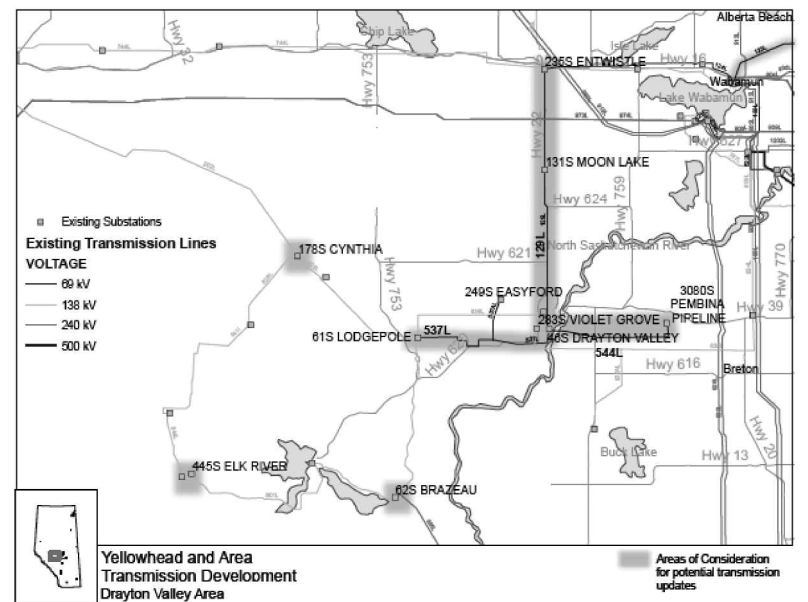
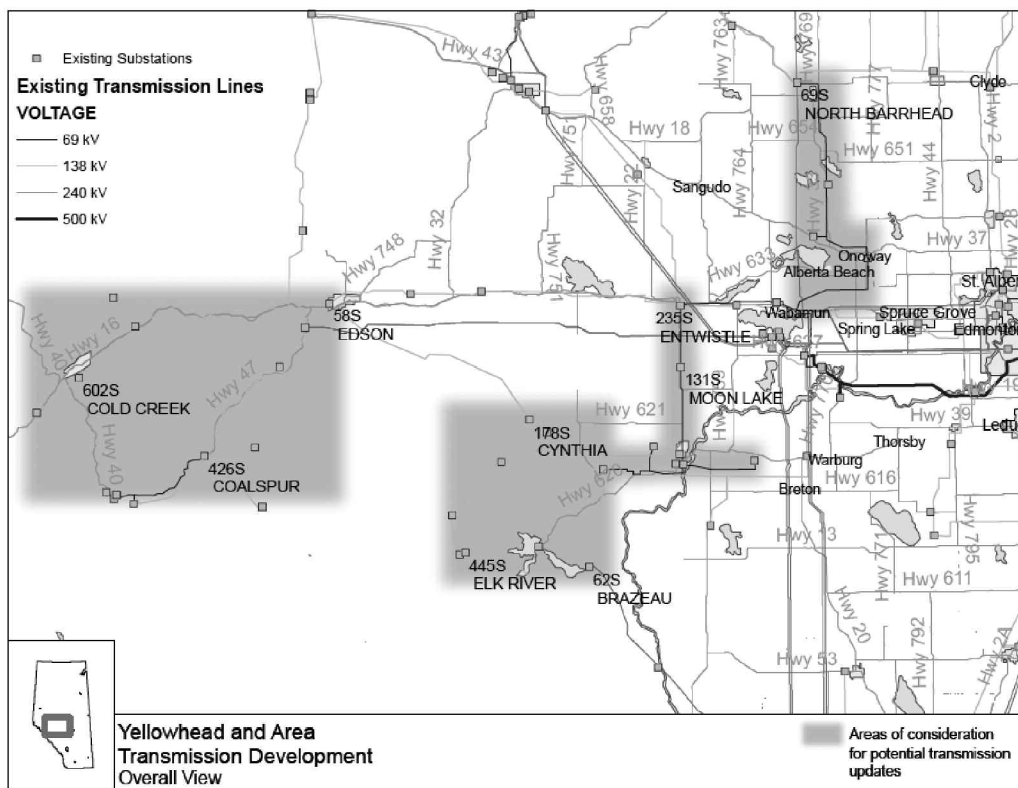
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Docket:	103037
Date:	Dec 2, 2008
Size:	10.25"
Proof:	1
EH: 1 of 1	
Publication(s):	Edson Leader Hinton Parklander

# Potential Transmission Development in the Drayton Valley Area



The shaded area in the map illustrates the area of study for locating facilities. The AESO is currently considering the following potential development options for transmission upgrades in the Alberta Beach Area:

Either:

- Replace 46 km of existing 69 kV transmission line (129L) from Entwistle to Moon Lake to Drayton Valley substations with a new 138 kV transmission line. Since the Drayton Valley substation is to be salvaged, the new line will be rerouted to the existing Violet Grove substation. The new line will mostly use the existing right of way of 129L and will require replacing existing wood poles with taller wood poles.
- Replace existing 69/25 kV transformers at Moon Lake substation with two 138/25 kV transformers.
- Salvage and remove all 69/25 kV equipment at Entwistle substation.
- Salvage and remove existing Drayton Valley substation.
- Decommission approximately 27 km of the 69 kV line 537L from Lodgepole substation to Drayton Valley substation, and approximately 12 km of the 69 kV line 544L from Drayton Valley substation to Pembina Pipelines substation.
- To maintain voltages, in particular under abnormal conditions such as when a transmission line is out of service because of a fault, new capacitor banks will be placed at the existing Cynthia, Amoco Brazeau and Brazeau substations.

The Alberta Electric System Operator (AESO) has verified the need to reinforce the electric transmission system in Yellowhead and surrounding areas, specifically in the Drayton Valley, Hinton/Edson and Alberta Beach Areas. Demand for electricity is expected to grow from 423 MW in 2007 to 633 MW by 2017. The areas of study for the potential developments are shown on the maps.

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<b>Docket:</b>	103037
<b>Date:</b>	Dec 2, 2008
<b>Size:</b>	10.25"
<b>Proof:</b>	1
<b>DV: 1 of 1</b>	
<b>Publication(s):</b>	Drayton Valley