

APPENDIX 2E

NBSO [10-Year Assessment](#) of Adequacy of Generation and Transmission Facilities in New Brunswick 2010-2020 - Executive Summary

This 10-Year Outlook fulfills NBSO's obligation under Market Rule 9.2 to develop and publish an annual baseline plan for the New Brunswick Electricity Market. It includes an assessment of the potential need for investments in transmission facilities and other actions that may be required to maintain reliability of the SO-controlled grid, to improve performance of the market, and to reduce costs associated with transmission constraints on the SO-controlled grid. Under Market Rule 9.4, third parties may contact NBSO to bid on the projects identified in this report, or they may propose alternative solutions to these projects that may include, but are not limited to, transmission, generation, distribution, and energy efficiency projects.

Listed below are summaries of the report sections for load forecast, generation, resource adequacy, transmission, and regional system development.

Load Forecast

The NB Power load forecast in this 2010 assessment is similar to the 2009 review. The in-province energy forecast for 2010/11 is 14,190 GWh with an annual growth rate of 0.6%. The in-province demand forecast for 2010/11 is 3,030 MW with an annual growth rate of 0.6%. Details of the load forecast, including history, monthly usage, and major forecast assumptions are found in section 2.0 of this report.

Generation

The ongoing refurbishment of the 660 MW Point Lepreau Nuclear Station is now 16-months behind schedule. As of April 1, 2010 its return to service date has changed from October 1, 2009 to February 1, 2011. Updates on the Point Lepreau refurbishment are provided by NB Power at: <http://poweringthefuture.nbpower.com>

Generation retirements projected in this 10-year assessment include:

- 5 MW at Musquash (January 2010)
- 57 MW at Grand Lake (March 2010)
- 299 MW at Dalhousie (March 2011)

NB Power has announced the following additional wind projects for New Brunswick:

<u>Project</u>	<u>Location</u>	<u>Size (MW)</u>	<u>Owner</u>	<u>In-service Date</u>
Lamèque		49.5	Acciona	Delayed by developer
Aulac		64.5	Acciona	Delayed by developer
Kent Hills Expansion		54	TransAlta	December 2010

Resource Adequacy

The assessment of committed generation resources shows that the New Brunswick system does not require additional capacity in the next 10 years to meet the long term NBSO capacity based reserve criterion of 20% firm load or the largest generator. Details of the load and resources review are provided in section 4.0 of this report.

Transmission

Major projects within the next 10 years that impact the bulk transmission system include:

- Refurbishment of the Eel River HVDC station is under review.

- Planning studies are on-going to propose transmission solutions that will reliably supply the forecast loads in Southeastern NB and meet the current and future needs of the interconnections with PEI and Nova Scotia.

- Several other 138 kV and 69 kV transmission projects are identified in section 5.0 of this report.

Regional System Development

Updates to regional system development in New Brunswick, as well as neighbouring areas, is discussed in chapter 7 of this report, and includes the following:

- A cancelled energy agreement between New Brunswick and Québec.

- The 2009 New Brunswick Transmission Workshop hosted by NBSO.

- The New Brunswick Community Energy Policy.

- PEI wind development.

- A 2009 study of transmission and system operator options for Nova Scotia.