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NPCC
2011 Québec Balancing Authority Area
Comprehensive Review of
Resource Adequacy

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Final Report – Approved by the NPCC RCC on November 29, 2011

October 27, 2011.

3. INTRODUCTION

The Northeast Power Coordinating Council (NPCC) conducts resource adequacy reviews of its member areas to ascertain whether or not each area will have adequate resources to meet the NPCC Resource Reliability Criterion.

Hydro-Québec Distribution (HQD) is the entity responsible for resource planning in Québec. HQD is also responsible for all activities regarding load forecasting and resource procurement required to supply the local load. As such, HQD is the reporting entity for this assessment.

The purpose of this report is to present the results of the Québec Balancing Authority Area's comprehensive review of resource adequacy to the NPCC. Results of this resource adequacy review, conducted by HQD and submitted to the NPCC, are documented in accordance with the reporting guidelines specified in Appendix D of the NPCC Regional Reliability Reference Directory #1, "*Guidelines for Area Review of Resource Adequacy*" (Original document: December 1, 2009).

This report also includes some information regarding Hydro-Québec Production (HQP) and TransÉnergie activities that are required in order to conduct reliability evaluations in this Review.

Information presented in this Comprehensive Review covers the period from November 2011 through October 2016 and is based on the Québec Area load forecast used in the Progress Report of the 2011-2020 Supply Plan filed at the Régie de l'Énergie du Québec on November 1, 2011.

3.1 Reference to Most Recent NPCC Comprehensive Review

Comparisons between this review and the previous Comprehensive Review, submitted in December 2008 and approved by NPCC's Reliability Coordinating Committee (RCC) on March 2009, are included in this report.

3.2 Comparison of this Review and Previous Review

3.2.1. Demand Forecast

The demand forecast presented in this review focuses on winter annual peaks. Two demand scenarios are presented: a base case and a high demand case. Winter peak demand forecasts for this 2011 Comprehensive Review are presented in Table 3.2.1 and Figure 3.2.1, along with the 2008 Comprehensive Review forecasts.

Demand forecasting methodology is basically the same as that used in the previous Comprehensive Review. The Québec peak load forecast is based on normal weather conditions. For this purpose, a 36-year reference period is used to assess average