

NPCC
2011 Québec Balancing Authority Area
Comprehensive Review of
Resource Adequacy

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Table 3.2.2-1 Installed Wind Capacity and Values at Peak (MW)

Winter Peak	Wind Installed Capacity			Capacity Value at peak
	HQP ¹	HQD ²	Area Total	
2011 / 2012	212	845	1,057	254
2012 / 2013	212	1,625	1,837	487
2013 / 2014	212	2,274	2,486	682
2014 / 2015	212	2,740	2,952	822
2015 / 2016	212	3,136	3,348	941

¹: Completely derated in this review.

²: 30% Capacity value at peak.

Finally, expected capacity purchases are increased by 100 MW, using the new Variable Frequency Transformer installed at Langlois substation.

Mothballed, Unavailable and Retired Resources

The Gentilly-2 nuclear station refurbishment of (675 MW) previously planned from spring 2011 to fall 2012 was postponed. It is presently planned between spring 2012 and spring 2014.

Tracy oil-fired G.S unit (150 MW) has been retired and the three other units (450 MW) are mothballed. A six months delay is required to have them back in service, if required.

TransCanada Energy's combined cycle G.S in Bécancour (547 MW) is also mothballed. Each summer, Hydro-Québec Distribution has to make a decision as to whether mothballing will be extended for an additional year or whether the plant will be restarted for the coming winter. In a the base case scenario, the mothballing period is planned to end in December 2015. Operations may restart sooner for capacity requirement purposes.

Purchases from NALCOR at Churchill Falls are reduced by 165 MW (from 4,930 to 4,765 MW).

The load impact of interruptible programs was also adjusted downward according to recent estimations of customer's participation (-70 MW).

Summary of Available Resources

Table 3.2.2-2 and Fig 3.2.2 show the available resources in the Québec area, as forecasted for the horizon covered by this review. They include a comparison with the Forecasted Resources from the previous Comprehensive Review.