MANITOBA HYDRO

2012/13 & 2013/14 ELECTRIC GENERAL RATE APPLICATION

PROVIDED BY: D. CORMIE

Request at Transcript Page #4958

MH to re-file Chart A to show MH's dependable resources layered in color, including those resources that are not called on. MH to re-file Chart B to show exports and imports on a gross basis instead of a net basis.

Response:

Chart A1 depicts hourly generation for Manitoba Hydro stations on December 11, 2012. Also shown on this chart is total wind generation, net imports, and Manitoba load for that day. For hours when total generation in Manitoba exceeded Manitoba load, Manitoba Hydro was a net exporter of power. Conversely, during off peak and lower priced mid-day hours, Manitoba Hydro was serving some of its domestic load through imports.

Chart A2 illustrates a possible drought flow generation pattern from Manitoba Hydro's dependable resources for December 11, 2012. Hydraulic generation is from the peak winter load day during the 2003/04 drought when river flows were similar to what could be expected under dependable flow conditions. Since Wuskwatim was not in service at that time, Wuskwatim generation has been included assuming 2004 Burntwood River flows. Wind generation is the actual for December 11, 2012. Brandon Unit 5 coal fired generation and Selkirk generation are at full capacity. Firm imports of up to 550 MW are included, which is consistent with the maximum dependable import assumption in Manitoba Hydro's Power Resource Plan. Brandon Units 6 and 7 combustion turbines and non-firm imports are used as the balancing resources. Manitoba load shown in Chart A2 has been adjusted to reflect reduced transmission losses due to lower northern generation levels.

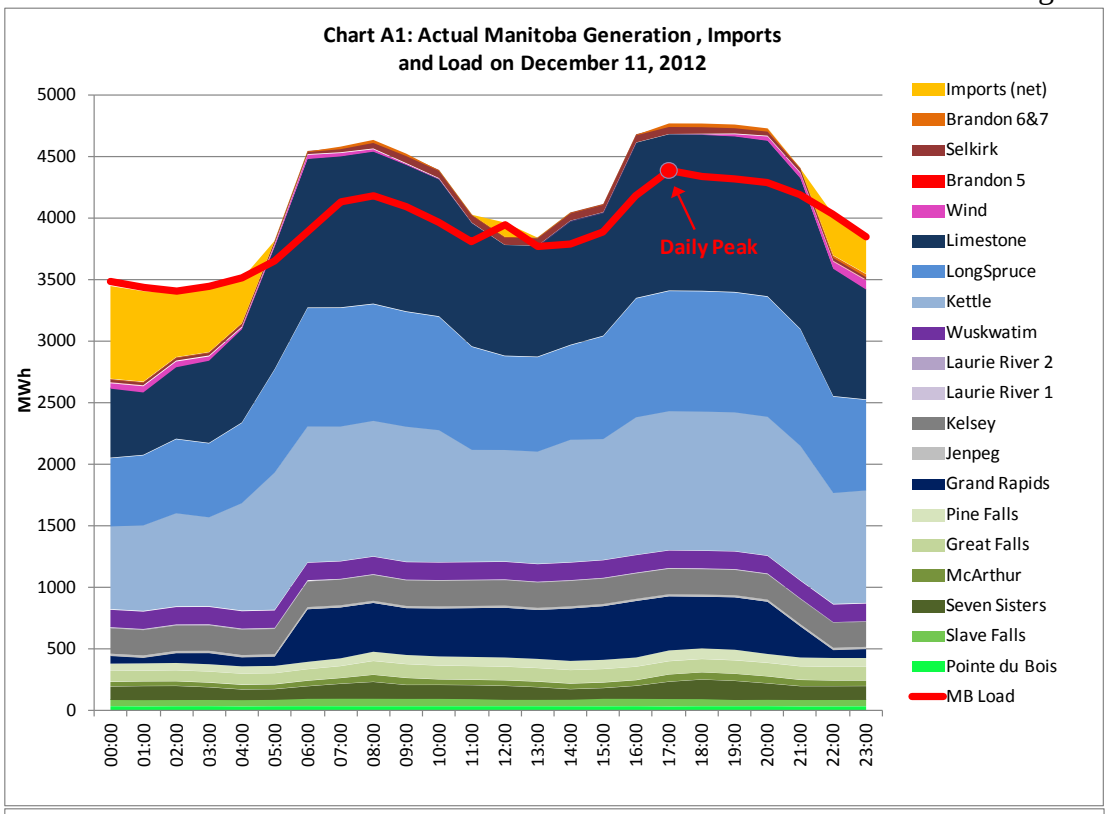
Chart A1: Actual Manitoba Generation , Imports and Load on December 11, 2012
MWh
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
00:00
01:00
02:00
03:00
04:00
05:00
06:00
07:00
08:00
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Daily Peak
Imports (net)
Brandon 6&7
Selkirk
Brandon 5
Wind
Limestone
LongSpruce
Kettle
Wuskwatim
Laurie River 2
Laurie River 1
Kelsey
Jenpeg
Grand Rapids
Pine Falls
Great Falls
McArthur
Seven Sisters
Slave Falls
Pointe du Bois
MB Load

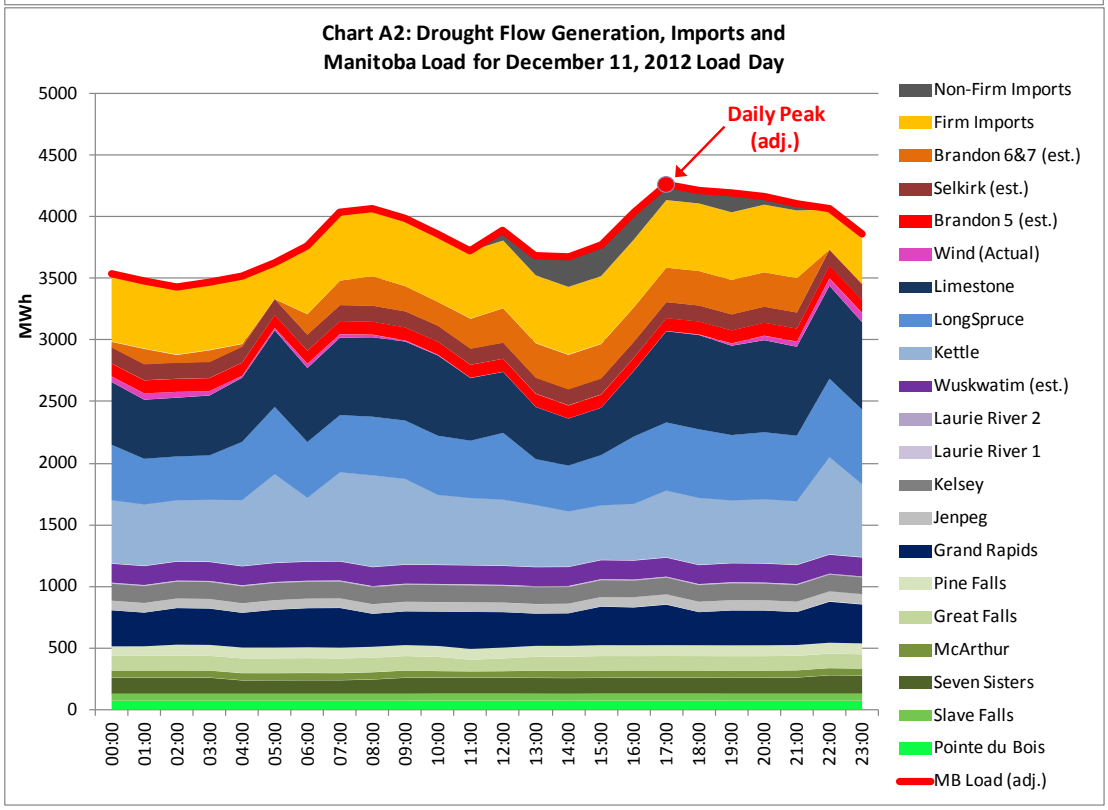
Chart A2: Drought Flow Generation, Imports and Manitoba Load for December 11, 2012 Load Day
MWh
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
00:00
01:00
02:00
03:00
04:00
05:00
06:00
07:00
08:00
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Daily Peak (adj.)
Non-Firm Imports
Firm Imports
Brandon 6&7 (est.)
Selkirk (est.)
Brandon 5 (est.)
Wind (Actual)
Limestone
LongSpruce
Kettle
Wuskwatim (est.)
Laurie River 2
Laurie River 1
Kelsey
Jenpeg
Grand Rapids
Pine Falls
Great Falls
McArthur
Seven Sisters
Slave Falls
Pointe du Bois
MB Load (adj.)

Chart B has been revised to show gross extraprovincial sales and purchases, and wind purchases.