

Manitoba Hydro Undertaking #3 (Addition)

Quantify the transmission and ancillary service costs that we put in forecast for 2020, as well as the two test years. Provide the same information for actuals in 2010.

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Manitoba Hydro Undertaking #48

Manitoba Hydro to refile the table provided by PUB Counsel with respect to MH Exhibit 21 to set out the unit prices, quantity of energy and total dollar amounts for fiscal 2009 & 2010. Manitoba Hydro to also correct any numbers on the table that are incorrect.

The attached tables provide a breakdown of sales and purchases assembled in PUB Exhibit 15 B.O.D. Tab 6, p.27 and p.28, and later in PUB Part B (B.O.D. Tab 6, p. 27). The activities are broken down between bilateral/market, physical/financial, and energy/non-energy related. Merchant activity is not included in these tables.

Physical/financial breakdown is provided for 2008/09 and 2009/10, the two years referenced in Tab 6, p.27 and p.28. Information for 2010/11 is not provided because Manitoba Hydro does not forecast physical and financial activities separately.

As stated in Manitoba Hydro Undertaking #5, fixed and non-energy related revenues and costs should be excluded from unit price calculations. To the extent that unit price calculations are appropriate, these have been indicated.

Table 1. Export Revenues

	2008/09			2009/10		
	GWh	\$M (Cdn)	¢/kWh	GWh	\$M (Cdn)	¢/kWh
Dependable						
Physical	3,741	213	5.7	3,146	178	5.7
Financial	346	20		117	8	
Dependable Total	4,087	233	5.7	3,263	186	5.7
Opportunity						
Bilateral						
Physical	1,099	83	7.6	2,122	44	2.1
Financial	206	18		506	16	
Opportunity Bilateral Total	1,305	101		2,628	60	
Market						
Day Ahead						
Physical	4,288	147	3.4	3,154	69	2.2
Financial	-248	-25		-43	-10	
Day Ahead Total	4,040	122	3.0	3,111	59	1.9
Real Time						
AESO	40	3		144	5	
IESO						
Energy	264	13		219	6	
Congestion Mgmt. Settlement Credits		23			17	
Inter-tie Offer Guarantee		2			1	
MISO						
Real Time Physical	271	14		167	5	
Real Time Financial	0	0		1	0	
ASM Energy	115	4		1326	34	
ASM Other (Reg, Spin, Supp, True-Ups)		1			2	
RT Total (only physical and energy related)	690	34	4.9	1,856	50	2.7
RT Total		60			70	
Total (only physical and energy related)	9,818	477	4.9	10,278	341	3.3
Total		516			375	

note: excludes System Merchant

Table 2. Purchases

	2008/09			2009/10		
	GWh	\$M (Cdn)	¢/kWh	GWh	\$M (Cdn)	¢/kWh
Dependable						
Physical	395	21	5.3	454	21	4.6
Financial	0	0		59	1	
Dependable Total	395	21	5.3	513	22	4.3
Opportunity						
Bilateral						
Physical	1	0.04	4.0	3	0.05	1.7
Financial	8	6.86		3	0.00	
Opportunity Bilateral Total	9	7		6	0	
Market						
Day Ahead						
Physical	73	2	2.8	74	1.9	2.6
Financial	-1	0		1	0.1	
Day Ahead Total	72	2	2.8	75	2	2.7
Real Time						
IESO						
IESO Energy	140	6		107	3	
CMSC		-1			-2	
MISO						
Physical	63	5		41	2	
Financial	302	12		578	11	
RT Total (only physical and energy related)	203	11	5.4	148	5	3.4
RT Total		22			14	
Total (only physical and energy related)	672	34	5.1	679	28	4.1
Total	981	52		1,320	38	

note: excludes System Merchant