Manitoba Hydro Undertaking #33

Manitoba Hydro to quantify the effects of the energy in storage depletion attributable to the actions of operators of reservoirs not in the control of Manitoba Hydro.

Similar to Undertaking No. 34, the following table includes potential Energy in Reservoir Storage (EIS) on April 1st, the annual maximum, and on October 31st for reservoirs that are not controlled by Manitoba Hydro, but from which outflows supply Manitoba Hydro generation.

	April 1st Annual Maxir		Maximum	October 31st		
Fiscal	EIS*	Δ From	EIS*	Δ From	EIS*	Δ From
Year	(TWh)	Average	(TWh)	Average	(TWh)	Average
1977/78	1.9	-1.0	7.9**	0.2	7.0	0.7
1978/79	2.6	-0.3	8.8	1.1	7.3	1.0
1979/80	3.1	0.3	9.0	1.2	7.3	1.1
1980/81	3.4	0.6	5.0	-2.7	4.8	-1.5
1981/82	1.3	-1.6	5.5	-2.2	3.8	-2.5
1982/83	0.2	-2.6	7.2	-0.5	6.1	-0.2
1983/84	2.4	-0.4	6.7	-1.0	5.8	-0.4
1984/85	2.5	-0.4	7.3	-0.4	5.2	-1.1
1985/86	2.2	-0.7	8.8	1.1	7.8	1.6
1986/87	3.5	0.7	8.5	0.8	7.4	1.1
1987/88	3.4	0.6	5.9	-1.8	4.7	-1.5
1988/89	1.8	-1.1	5.8	-1.9	5.3	-1.0
1989/90	2.7	-0.2	7.3	-0.4	5.2	-1.1
1990/91	1.9	-0.9	7.6	-0.1	4.7	-1.6
1991/92	1.3	-1.6	6.6	-1.2	5.5	-0.8
1992/93	2.5	-0.4	7.6	-0.1	5.9	-0.4
1993/94	2.1	-0.8	6.8	-1.0	5.7	-0.6
1994/95	2.2	-0.6	7.1	-0.6	6.2	0.0
1995/96	3.3	0.4	7.1**	-0.6	6.4	0.1
1996/97	3.9	1.1	9.3	1.6	9.0	2.8
1997/98	4.9	2.0	9.2	1.5	7.7	1.5
1998/99	4.7	1.8	7.3	-0.4	5.5	-0.8
1999/00	2.1	-0.7	8.1	0.4	7.5	1.2
2000/01	3.9	1.0	7.8**	0.1	6.3	0.0
2001/02	3.5	0.7	9.0	1.2	4.9	-1.4
2002/03	2.1	-0.8	7.4	-0.3	4.0	-2.3
2003/04	1.3	-1.6	3.5	-4.2	3.4	-2.9
2004/05	1.4	-1.5	7.4	-0.3	6.5	0.3
2005/06	3.5	0.6	9.8	2.1	7.6	1.4
2006/07	4.5	1.6	8.1	0.4	6.4	0.1

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	April 1st		Annual Maximum		October 31st	
Fiscal	EIS*	Δ From	EIS*	Δ From	EIS*	Δ From
Year	(TWh)	Average	(TWh)	Average	(TWh)	Average
2007/08	4.3	1.4	9.8	2.0	9.2	2.9
2008/09	4.9	2.0	10.1	2.3	7.4	1.2
2009/10	4.5	1.6	9.0	1.3	7.3	1.0
2010/11	3.5	0.6	9.9	2.2	8.2	2.0
Avg.	2.9		7.7		6.3	

Notes:

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^{*} Energy in Storage numbers assume Limestone generating station is in service. ** Annual maximum occurred outside Apr-01 to Oct-31 period