

NEEDS FOR AND ALTERNATIVES TO (NFAT)

Manitoba Hydro Undertaking #19

Manitoba Hydro to provide a revised Table 33 with 5% and 95% probability metric. Manitoba Hydro to also provide a revised Table 33 with a 2.5% and 97%, as well as a 0.1% and 99.9% probability metric.

Response:

The following tables provide Table 33 - Energy Variability from the 2013 Load Forecast represented in GW.h for each of the different probability points requested.

Fiscal Year	Gross Firm Base Fcst	Long Term Economic Std Dev	5.0% Prob Point	95.0% Prob Point
2013/14	25239	284	24772	25706
2014/15	25676	434	24962	26390
2015/16	26013	557	25097	26929
2016/17	26322	667	25225	27418
2017/18	26606	767	25344	27868
2018/19	27003	862	25585	28420
2019/20	27398	951	25833	28962
2020/21	27789	1038	26083	29496
2021/22	28197	1121	26354	30041
2022/23	28605	1202	26629	30582
2023/24	29013	1280	26907	31119
2024/25	29418	1357	27186	31651
2025/26	29822	1433	27466	32179
2026/27	30225	1507	27747	32703
2027/28	30625	1579	28028	33223
2028/29	31041	1651	28325	33756
2029/30	31453	1721	28621	34284
2030/31	31863	1791	28917	34810
2031/32	32265	1860	29206	35325
2032/33	32667	1928	29495	35839

Fiscal Year	Gross Firm Base Fcst	Long Term Economic Std Dev	2.5% Prob Point	97.5% Prob Point
2013/14	25239	284	24682	25795
2014/15	25676	434	24825	26526
2015/16	26013	557	24921	27105
2016/17	26322	667	25015	27628
2017/18	26606	767	25102	28109
2018/19	27003	862	25314	28691
2019/20	27398	951	25533	29262
2020/21	27789	1038	25756	29823
2021/22	28197	1121	26000	30394
2022/23	28605	1202	26250	30961
2023/24	29013	1280	26503	31522
2024/25	29418	1357	26758	32078
2025/26	29822	1433	27015	32630
2026/27	30225	1507	27273	33178
2027/28	30625	1579	27530	33721
2028/29	31041	1651	27805	34276
2029/30	31453	1721	28079	34827
2030/31	31863	1791	28353	35374
2031/32	32265	1860	28620	35911
2032/33	32667	1928	28888	36446

Fiscal Year	Gross Firm Base Fcst	Long Term Economic Std Dev	0.1% Prob Point	99.9% Prob Point
2013/14	25239	284	24361	26116
2014/15	25676	434	24334	27017
2015/16	26013	557	24291	27735
2016/17	26322	667	24262	28381
2017/18	26606	767	24235	28976
2018/19	27003	862	24340	29665
2019/20	27398	951	24457	30338
2020/21	27789	1038	24583	30996
2021/22	28197	1121	24734	31661
2022/23	28605	1202	24892	32319
2023/24	29013	1280	25056	32969
2024/25	29418	1357	25224	33612
2025/26	29822	1433	25395	34249
2026/27	30225	1507	25570	34881
2027/28	30625	1579	25745	35506
2028/29	31041	1651	25939	36142
2029/30	31453	1721	26133	36772
2030/31	31863	1791	26328	37399
2031/32	32265	1860	26517	38014
2032/33	32667	1928	26708	38626