

NEEDS FOR AND ALTERNATIVES TO (NFAT)

Manitoba Hydro Undertaking #7

Manitoba Hydro to provide the consumption reduction impact of the Fuel Switching initiative having a 100% success rate.

Response:

Manitoba Hydro generally agrees with the calculations presented on Page 34 of the Board Counsel’s Book of Documents (Volume II) for the New Home Water Heating, Replacement Space Heating and Replacement Water Heating sectors as representing the theoretical technical potential electricity reduction if the Heating Education initiative was 100% successful.

	Projected Consumption Reduction If Manitoba Hydro Fuel Choice Initiative is 100% Effective (GWh)	
	PUB Calculation as noted in Book Of Documents Page 34	Manitoba Hydro Revised
New Home Space Heating	425	401*
New Home Water Heating	229	232
Replacement Space Heating	105	105
Replacement Water Heating	183	183
Total	942	903

* 23,265 new single detached electrically heated homes forecast for gas available areas without initiative x 16,480 kWh/ home = 383 GWh
383 GWh technical potential for Single Detached + 18 GWh projected reduction for multi-attached homes = 401 GWh

For New Home Space Heating, Manitoba Hydro’s projected electricity reduction of 194 GWh resulting from the Fuel Choice Initiative includes projected electricity reductions of 176 GWh for single detached homes and 18 GWh for multi-attached homes.

The above estimate of theoretical technical potential is based upon average annual heating consumption of 16,480 kWh for new single detached dwellings forecast for the Winnipeg and South Gas available areas. Growth in multi-attached dwellings is forecast for the province overall, not for the individual regions; Manitoba Hydro has estimated that approximately 40% of the new electrically heated multi-attached dwellings forecast for the province overall, with an average annual usage of 8,700 kWh, will instead choose natural gas as a result of the Corporation’s Heating Fuel Choice Initiative.