

Needs For and Alternatives To

APPENDIX 4.2

Manitoba Hydro Supply and Demand Tables

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Appendix 4.2 Manitoba Hydro Supply and Demand Tables

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Appendix 4.2 – Manitoba Hydro Supply and Demand Tables

This appendix includes the supply and demand tables for each development plan. The Supply and Demand Tables compare annual supply and annual demand values to determine the capacity or dependable energy surplus or deficit on an annual basis and are based on Manitoba Hydro's Generation Planning Criteria. A separate Supply and Demand Table for Winter Peak Capacity and Dependable Energy is created for each development plan studied for the 35 year planning period. The capacity tables and energy tables are similar in format, but there are differences. For example, certain resources supply energy but not capacity and are included in the energy table, but not in the capacity table

Section 1 of this appendix provides an explanation of the information included in the Winter Peak Capacity Supply and Demand Table and Section 2 provides an explanation of the information included in the Dependable Energy Supply and Demand Table. Section 3 contains the Supply and Demand Tables used for the NFAT evaluations.

1. Manitoba Hydro Winter Peak Capacity Supply and Demand Tables

The Supply and Demand Tables compare annual supply and annual demand values to determine the capacity surplus or deficit on an annual basis and are based on Manitoba Hydro's Generation Planning Criteria. A separate Supply and Demand Table for capacity is created for each development plan studied for the 35 year planning period.

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation

The maximum demand for capacity in Manitoba occurs in the winter season, and therefore the winter peak capacity is evaluated in the supply and demand tables for capacity. Capacity is measured “@ generation” and takes into account the amount of capacity lost while delivering power from the generating stations to all of the distribution substations that make up the Common Bus.

Supply and Demand Table Content Description

The Supply and Demand Tables reflect “supply” (shown as Total Power Resources) less “demand” (shown as Total Peak Demand) and Reserves to determine the System Surplus (the difference between supply and demand). Non-exportable resources are then deducted to determine the Exportable Surplus which is energy or capacity available for export sales under long-term contract. Following is a general description of each section.

Total Power Resources

Total Power Resources is the sum of New Power Resources and Base Supply Power Resources. New Power Resources represent the capacity resources contemplated by a specific development plan. Base Supply Power Resources consist of generating resources and imports which are common to all development plans.

The Supply and Demand Tables for No New Generation is a view of system supply used to determine the date when new resources are needed which takes into account Base Supply Power Resources but does not include any New Power Resources.

New Power Resources

New Power Resources are those resources that are contemplated by a specific development plan. The development plans studied may include new hydro, thermal, wind or imports from neighboring utilities.

New Hydro

The capacity of a New Hydro generating station reflects its net addition to the overall system when taking into consideration effects on existing hydro generating stations. In addition, the reduction in capacity which may result from ice conditions is reflected in the capacity rating during winter peak.

New Thermal

The capacity of a Simple Cycle Gas Turbine or Combined Cycle Gas Turbine is affected by temperature. The capacity of the unit decreases as temperature increases. The capacity rating in the Supply and Demand Tables is the capacity rating of the plant during winter peak.

New Imports

Contracted Imports are imports from neighboring utilities based on signed contracts.

Proposed Imports are those for which an import contract has not yet been entered into, but are contemplated by a specific development plan.

Base Supply Power Resources

The base supply of power is comprised of the following system resources that are common to all development plans being evaluated:

- Existing Hydro
- Existing Thermal
- Contracted Imports,
- Pointe du Bois Rebuild
- Bipole III Loss Reduction.

Existing Hydro

Existing Hydro consists of all existing hydro-electric generating resources owned and operated by Manitoba Hydro.

Existing Thermal

Existing Thermal includes all existing gas-fired and coal-fired thermal generating stations owned and operated by Manitoba Hydro. As a result of Environment Canada's *Reduction of Carbon Dioxide Emissions from Coal-fired Generation of Electricity Regulation* Brandon Unit 5, Manitoba Hydro's sole remaining coal-fired generating unit, is assumed to be available until December 31, 2019.

Contracted Imports

Contracted imports are imports from neighboring utilities based on signed contracts which are common to all development plans.

Proposed Imports

Proposed Imports are import from neighboring utilities included as dependable supply for which a contract has not yet been signed, but are included in signed Term Sheets which are under negotiation. These proposed imports are common to all development plans.

Pointe du Bois Rebuild

For planning purposes the Pointe du Bois powerhouse is assumed to be rebuilt with an increase of 43 MW over existing plant ratings with first power in 2030/31. Until Pointe du Bois is rebuilt, it is assumed that the existing facility will be maintained so that it will continue to operate at or near full capacity with routine capital investment.

Reduced Losses Due to Increased Bipole Capacity

Constructing Bipole III will reduce the capacity losses associated with the existing HVDC system by allowing the northern generation to be shared between the three bipoles, rather than two bipoles. This loss reduction is reflected as an increase to supply in the supply/demand tables. The amount of incremental loss reduction from Bipole III decreases as new northern generation is connected to the HVDC system.

Total Peak Demand

Total Peak Demand is the sum of Manitoba load net of demand side management programs (DSM) and export obligations. Each of these components is described below.

Electric Load Forecast

Manitoba Hydro's forecast of winter peak demand is detailed in the Electric Load Forecast. This forecast is reviewed and updated on an annual basis as part of the annual corporate planning cycle.

The winter peak capacity forecast included in the Supply and Demand Tables is the capacity required to serve Manitoba Hydro's customers on the integrated system and includes the effects of past DSM programs.

2012 base DSM Forecast

Manitoba Hydro's forecast of DSM savings consists of energy conservation and load management activities designed to manage the customer's demand for energy. The DSM values represent the amount of DSM savings not already accounted for in the Electric Load Forecast and are reviewed and updated on an annual basis as part of the annual corporate planning cycle.

Manitoba Net Load

Manitoba Net Load results from subtracting the expected savings from planned DSM programs from the electric load forecast.

Contracted Exports

Contracted Exports is the sum of all signed export contracts for capacity that are common to all development plans.

Proposed Exports

Proposed exports represent capacity contracts that have not been signed, but are included under signed Term Sheets which are under negotiation.

Reserves

In accordance with the Generation Planning Criteria Manitoba Hydro plans its system capacity to maintain a reserve margin of generation of 12% above its peak load. The reserve margin is intended to protect against capacity shortfalls resulting from breakdown of generation equipment, or increases in peak load due to unexpected load growth or extreme weather conditions.

System Surplus

The system surplus represents the amount of capacity which is surplus to Manitoba Hydro's winter peak capacity demand.

Exportable Surplus

Exportable surplus is the amount of winter peak capacity that is available to be marketed for long-term sale. It represents the system surplus less resources that are not available for export sale such as Brandon Generating Station Unit 5 which is governed by the provincial *Climate Change and Emissions Reduction Act* and its subsequent *MR 186/2009, the Coal-Fired Emergency Operations Regulation* which restricted coal fired operation to "... support emergency operations."

2. Manitoba Hydro Dependable Energy Supply and Demand Tables

The Supply and Demand Tables compare annual supply and annual demand values to determine the surplus or deficit of dependable energy on an annual basis and are based on Manitoba Hydro's Generation Planning Criteria. A separate Supply and Demand Table for dependable energy is created for each development plan studied for the 35 year planning period.

System Firm Energy Demand and Dependable Resources (GW.h) @ generation

Manitoba Hydro's energy criterion recognizes the energy constraint of hydraulic generation during drought conditions. The supply and demand tables for energy reflect

the amount of energy available to meet firm energy demand in the event of a repeat of the lowest historic water supply conditions and is referred to as dependable energy from hydro-electric resources. Historic water supply conditions are derived from the available record for river flows (1912 to 2010) which have been adjusted to represent present use conditions and to account for system changes due to expected future water use and withdrawals upstream of Manitoba. Dependable energy is measured “@ generation” and takes into account the amount of energy lost while delivering power from the generating stations to all of the distribution substations that make up the Common Bus.

Supply and Demand Tables Content Description

The Supply and Demand Tables reflect “supply” (shown as Total Power Resources) less “demand” (shown as Total Energy Demand) to determine the System Surplus (the difference between supply and demand). Non-exportable resources are then deducted to determine the Exportable Surplus which is energy available for export sales under long-term contract. Following is a general description of each section.

Total Power Resources

Total Power Resources is the sum of New Power Resources and Base Supply Power Resources. New Power Resources represent the dependable energy contemplated by a specific development plan. Base Supply Power Resources consist of generating resources and imports which are common to all development plans.

The Supply and Demand Tables for No New Generation is a view of system supply used to determine the date when new resources are needed which takes into account Base Supply Power Resources but does not include any New Power Resources.

New Power Resources

New Power Resources are those resources that are contemplated by a specific development plan. The development plans studied may include new hydro, thermal, wind or imports.

New Hydro

The energy from a New Hydro generating station reflects the amount of energy the plant is expected to add to the system under dependable water flow conditions when taking into consideration effects on existing hydro generating stations.

New Thermal

The dependable energy for a Simple Cycle Gas Turbine or Combined Cycle Gas Turbine is based on the heat rate of the unit (conversion rate of thermal energy to electric power). Energy is reduced by the anticipated forced outage rating and yearly maintenance shutdowns.

New Imports

Contracted Imports are imports from neighboring utilities based on signed contracts that are contingent on a generation build for a specific development plan, eg. A sale contract which is contingent on the construction of the Keeyask Generating Station may include the right to import energy and therefore the import is included in development plans where Keeyask Generating Station is included.

Proposed Imports are those for which an import contract is planned, but has not yet been entered into. Proposed imports are similar to contracted imports in that they are only included in specific development plans.

New Wind

For planning purposes New Wind generation is added to the system in increments equal to 65 MW wind farms which produce an amount of dependable energy which is

approximately equal to Manitoba load growth. Wind generation in Manitoba has a capacity factor of approximately 40%.

Due to the variability in the wind resource, there is uncertainty associated with the 40% capacity factor used for estimating the energy production from wind. For planning purposes an uncertainty factor is applied based on the likelihood that only 5% of the time will the energy be lower than the estimated average annual production. This is approximately equal to 85% of the average annual energy production for dependable energy planning purposes.

Base Supply Power Resources

The base supply of power is comprised of the following system resources that are common to all development plans being evaluated:

- Existing Hydro
- Existing Thermal
- Contracted Imports,
- Hydro Adjustment
- Market Purchases
- Existing Wind,
- Pointe du Bois Rebuild
- Bipole III Loss Reduction.

Existing Hydro

Existing Hydro consists of all existing hydro-electric generating resources owned and operated by Manitoba Hydro. The supply and demand tables for dependable energy include an annual reduction in energy to reflect the reduction in system inflows due to anticipated increases of consumptive water in Saskatchewan and Alberta primarily for irrigation. Currently irrigation withdrawals in Saskatchewan and Alberta are limited by the Prairie Provinces Water Apportionment Agreement.

Existing Thermal

Existing Thermal includes all existing gas-fired and coal-fired thermal generating stations owned and operated by Manitoba Hydro. As a result of Environment Canada's *Reduction of Carbon Dioxide Emissions from Coal-fired Generation of Electricity Regulation* Brandon Unit 5, Manitoba Hydro's sole remaining coal-fired generating unit, is assumed to be available until December 31, 2019.

Contracted Imports

Contracted imports are imports from neighboring utilities based on signed contracts which are not contingent on new resources and are common to all development plans.

Proposed Imports

Proposed Imports are imports from neighboring utilities included as dependable supply for which a contract has not yet been signed, but are included in signed Term Sheets which are under negotiation. These proposed imports are common to all development plans.

Hydro Adjustment

Manitoba Hydro has seasonal Diversity Contracts which provide for capacity and energy imports during the winter months when domestic peak demand is at its highest. In return, Manitoba Hydro provides an equal amount of capacity and energy during the summer months when domestic peak demand is lower.

Diversity Contracts provide the benefit of reducing energy requirements from the Manitoba Hydro system during the months when there is less operational flexibility due to ice restrictions and ice cover. A quantifiable amount of dependable energy, shown as the Hydro Adjustment, can be identified which represents the efficiency of using Manitoba Hydro generation in the summer months when there are no ice cover restrictions.

Market Purchases

Market Purchases represent the amount of imports that can be considered as dependable energy under Manitoba Hydro's Generation Planning Criteria over and above that which is provided in currently contracted and proposed import agreements. The total quantity of energy considered as dependable energy from imports is limited to the amount that can be imported during the off-peak period on firm import transmission and will not exceed the quantity of proposed and signed export agreements included in the development plan, plus 10% of net Manitoba load.

Existing Wind

For planning purposes, existing contracted purchases of wind generation are expected to be renewed in the same quantity after the expiration of the current contracts and to extend through to the end of the 35 year study period.

Of the expected annual generation from wind resources, 85% is relied upon as dependable energy.

Pointe du Bois Rebuild

For planning purposes the Pointe du Bois powerhouse is assumed to be rebuilt with an increase of 150 GW.h over existing plant ratings with first power in 2030/31. Until Pointe du Bois is rebuilt, it is assumed that the existing facility will be maintained so that it will continue to operate at or near full capacity with routine capital investment.

Reduced Losses Due to Increased Bipole Capacity

Constructing Bipole III will reduce the energy losses associated with the existing HVDC system by allowing the northern generation to be shared between the three bipoles, rather than two bipoles. This loss reduction is reflected as an increase to supply in the supply and demand tables. The amount of incremental loss reduction from Bipole III changes as new northern generation is connected to the HVDC system.

Total Energy Demand

Total Energy Demand is the sum of Manitoba load net of demand side management programs (DSM) and export obligations. Each of these components is described below.

Electric Load Forecast

Manitoba Hydro's forecast of energy consumption is detailed in the Electric Load Forecast. This forecast is reviewed and updated on an annual basis as part of the annual corporate planning cycle.

The energy forecast included in the Supply and Demand Tables is the energy required to serve Manitoba Hydro's customers on the integrated system and includes the effects of past DSM programs.

Construction Power – Hydro

Construction Power is the energy required to construct a new hydro-electric generating facility and is dependent on the generation build out in each development plan.

2012 base DSM Forecast

Manitoba Hydro's forecast of DSM savings consists of energy conservation and load management activities designed to manage the customer's demand for energy. The DSM values represent the amount of DSM savings not already accounted for in the Electric Load Forecast and are reviewed and updated on an annual basis as part of the annual corporate planning cycle.

Manitoba Net Load

Manitoba Net Load results from subtracting the expected savings from planned DSM programs from the electric load forecast.

Contracted Exports

Contracted Exports is the sum of all signed export contracts for dependable energy that are common to all development plans.

Contracts for the sale of surplus energy are not included as the energy table represents supply and demand in the event of a repeat of the lowest historic water supply conditions. Manitoba Hydro has no obligation to deliver surplus energy under lower than median water flow conditions.

Proposed Exports

Proposed exports represent dependable energy contracts that have not been signed, but are included under signed Term Sheets which are under negotiation.

Adverse Water

“Adverse Water” refers to a contract term contained in some export contracts which gives Manitoba Hydro the right to financially settle a portion or all of its export obligations under adverse water conditions. Adverse Water energy is deducted from total export obligations in the Supply and Demand table as MH would exercise its contractual rights under dependable water supply conditions.

System Surplus

The system surplus represents the amount of dependable energy which is surplus to Manitoba Hydro’s requirements.

Exportable Surplus

Exportable surplus is the amount of dependable energy that is available to be marketed for long-term sale. It represents the system surplus less resources that are not available for export sale such as Brandon Generating Station Unit 5 which is governed by the provincial *Climate Change and Emissions Reduction Act* and its subsequent *MR*

186/2009, the Coal-Fired Emergency Operations Regulation which restricted coal fired operation to “... support emergency operations.”

Also not available for export is the amount of energy provided for by Adverse Water contract clauses which give Manitoba Hydro the right to financially settle a portion or all of its export obligations. This energy is not considered to be available for resale.

3. **Manitoba Hydro Supply and Demand Tables**

NFAT 2012 Reference

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
No New Resources**

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses						90	90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679										
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679									
Peak Demand																			
2012 Base Load Forecast	4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672	
Contracted Exports	605	605	605	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	
Proposed Exports																			
8 Total Exports	605	605	605	358															
9 Total Peak Demand	7+8	5 084	5 178	5 224	5 019	5 057	5 121	5 190	5 240	5 313	5 385	5 458	5 537	5 618	5 339	5 417	5 500	5 586	5 672
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681
11 System Surplus/(Deficit)	6-9-10	686	583	567	721	678	697	619	458	376	296	214	126	35	(301)	(388)	(481)	(577)	(674)
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
Exportable Surplus	11+12	581	478	462	616	573	592	514	458	376	296	214	126	35					

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
No New Resources**

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Selkirk Gas	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	
6 Total Power Resources	4+5	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	
Peak Demand																			
2012 Base Load Forecast	5 947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378	
Less: 2012 Base DSM Forecast	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
10 Reserves		691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876
11 System Surplus/(Deficit)	6-9-10	(726)	(822)	(921)	(1 023)	(1 123)	(1 224)	(1 324)	(1 427)	(1 530)	(1 633)	(1 735)	(1 837)	(1 939)	(2 042)	(2 145)	(2 247)	(2 349)	(2 451)
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12																		

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference
No New Resources

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	592										
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271				
Proposed Imports			781	936	936	936	936	936	936	936	936	936	936	936	155				
Hydro Adjustment	340	340	373	784	844	844	844	844	844	844	844	844	844	844	139				
Market Purchases	363	363	338	583	493	493	493	493	493	493	493	493	493	2 617	3 043	3 068	3 068	3 068	
Existing Wind	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses						239	239	239	239	239	239	239	239	239	239	239	239	239	
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	30 055	29 315	29 176	29 191	29 181	29 181	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	29 315	29 176	29 191	29 181	29 181	
Manitoba Domestic Load																			
2012 Base Load Forecast	24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511	
Construction Power - Hydro															10	20	30	35	
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	24 899	25 561	25 800	26 037	26 241	26 619	27 033	27 276	27 707	28 119	28 540	28 974	29 419	29 860	30 293	30 758	31 233	31 714	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	249	145	145	145	145	
Proposed Exports				162	162	162	162	162	162	162	162	162	162						
Less: Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61				
9 Total Net Exports	3 202	3 156	3 156	1 968	1 804	188	145	145	145	145									
10 Total Energy Demand	8+9	28 101	28 717	28 956	28 005	28 045	28 423	28 837	29 080	29 511	29 923	30 344	30 778	31 223	30 048	30 438	30 903	31 378	31 859
11 System Surplus/(Deficit)	7-10	1 888	1 536	1 320	2 672	2 672	2 513	2 089	1 607	574	152	(279)	(713)	(1 168)	(733)	(1 262)	(1 712)	(2 197)	(2 678)
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592										
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61				
Exportable Surplus	11+12+13	986	725	509	1 552	1 491	1 332	908	645	204									

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

No New Resources

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	
6 Total Base Supply Power Resources	29 231	29 321	29 311	29 301	29 301	29 291	29 281	29 281	29 271	29 271	29 261	29 251	29 251	29 241	29 231	29 231	29 221	29 211	
7 Total Power Resources	5+6	29 231	29 321	29 311	29 301	29 301	29 291	29 281	29 281	29 271	29 271	29 261	29 251	29 251	29 241	29 231	29 231	29 221	29 211
Manitoba Domestic Load																			
2012 Base Load Forecast	32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
Construction Power - Hydro	30	10																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	32 181	32 632	33 103	33 597	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397	
Contracted Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
10 Total Energy Demand	8+9	32 326	32 777	33 248	33 742	34 232	34 718	35 201	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus/(Deficit)	7-10	(3 095)	(3 456)	(3 937)	(4 441)	(4 931)	(5 427)	(5 920)	(6 406)	(6 904)	(7 391)	(7 887)	(8 379)	(8 865)	(9 361)	(9 856)	(10 341)	(10 835)	(11 331)
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13																		

Date: August 16, 2013

		System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K19/C25/750MW (WPS Sale & Inv)																			
Fiscal Year		2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30		
Power Resources																					
New Power Resources																					
New Hydro																					
Conawapa																					
Keeyask																					
1 Total New Hydro											90	450	630	630	630	630	520	1 040	1 300	1 300	
New Thermal																					
SCGT																					
CCGT																					
2 Total New Thermal												90	450	630	630	630	630	1 150	1 670	1 930	1 930
New Imports																					
Contracted																					
Proposed																					
3 Total New Imports																					
4 Total New Power Resources	1+2+3										90	450	630	630	630	630	1 150	1 670	1 930	1 930	
Base Supply Power Resources																					
Existing Hydro		5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177											
Existing Thermal																					
Brandon Coal - Unit 5		105	105	105	105	105	105	105	105	105											
Selkirk Gas		132	132	132	132	132	132	132	132	132											
Brandon Units 6-7 SCGT		280	280	280	280	280	280	280	280	280											
Contracted Imports		550	550	385	385	385	385	385	385	385											
Proposed Imports				220	220	220	220	220	220	220											
Pointe du Bois Rebuild																					
Bipole III Reduced Losses								90	90	90	79	79	79	79	79	79	18	18	18	18	
5 Total Base Supply Power Resources		6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 273	6 273	6 273	6 273	6 273	5 668	5 607	5 607	5 607	5 607		
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 374	6 723	6 903	6 903	6 903	6 903	6 818	7 277	7 537	7 537	7 537		
Peak Demand																					
2012 Base Load Forecast		4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863		
Less: 2012 Base DSM Forecast		- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191		
7 Manitoba Net Load		4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672		
Contracted Exports		605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275		
Proposed Exports				119	119	119	119	119	119	119						220	330	330	330		
8 Total Exports		605	605	724	477	477	477	477	477	752	880	880	880	880	385	605	605	605	605		
9 Total Peak Demand	7+8	5 084	5 178	5 343	5 138	5 176	5 240	5 309	5 359	5 707	5 907	5 980	6 059	6 140	5 724	6 022	6 105	6 191	6 277		
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681		
11 System Surplus	6-9-10	686	583	448	602	559	578	500	429	421	393	311	223	132	453	605	772	676	579		
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105											
Exportable Surplus	11+12	581	478	343	497	454	473	395	429	421	393	311	223	132	453	605	772	676	579		

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K19/C25/750MW (WPS Sale & Inv)																			
Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1 930	2 175	2 175	2 175	2 420	2 420	2 665	2 665										
Base Supply Power Resources																			
Existing Hydro	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
5 Total Base Supply Power Resources		5 650																	
6 Total Power Resources	4+5	7 580	7 825	7 825	7 825	8 070	8 070	8 315	8 315										
Peak Demand																			
2012 Base Load Forecast	5 947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378	
Less: 2012 Base DSM Forecast	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
Contracted Exports																			
Proposed Exports																			
8 Total Exports		605	605	605	605	605	330												
9 Total Peak Demand	7+8	6 362	6 448	6 536	6 627	6 717	6 532	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
10 Reserves		691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876
11 System Surplus	6-9-10	527	431	332	230	130	304	534	431	328	225	123	266	164	61	203	101	244	142
Less: Brandon Unit 5																			
Exportable Surplus	11+12	527	431	332	230	130	304	534	431	328	225	123	266	164	61	203	101	244	142

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/C25/750MW (WPS Sale & Inv)

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro									493	2 974	3 003	3 003	3 003	3 003	2 198	4 650	4 650	4 650	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4								493	3 902	4 116	4 116	4 116	4 116	6 314	9 508	10 028	10 102	10 102
Base Supply Power Resources																			
Existing Hydro	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	592										
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271				
Proposed Imports				781	936	936	936	936	936	936	936	936	936	936	155				
Hydro Adjustment	340	340	373	784	844	844	844	844	844	844	844	844	844	844	139				
Market Purchases	363	363	338	583	493	493	493	493	957	1 050	1 050	1 050	1 050	3 198	2 882	2 363	2 288	2 288	
Existing Wind	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							239	239	239	243	243	243	243	243	151	151	151	151	
6 Total Base Supply Power Resources		29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 553	30 636	30 626	30 626	30 616	29 900	28 927	28 398	28 313	28 313
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	31 180	34 455	34 752	34 742	34 742	34 732	36 214	38 435	38 426	38 415	38 415
Manitoba Domestic Load																			
2012 Base Load Forecast	24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511	
Construction Power - Hydro		10	25	50	50	80	100	70	55	50	55	80	100	100	50	35	30	35	
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	24 899	25 571	25 825	26 087	26 291	26 699	27 133	27 346	27 762	28 169	28 595	29 054	29 519	29 950	30 323	30 763	31 233	31 714	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	2 031	1 887	1 472	1 389	1 389	
Proposed Exports				448	699	699	699	699	699	252	162	162	162		829	1 410	1 493	1 493	
Less: Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 85					
9 Total Net Exports	3 202	3 156	3 604	2 505	2 341	2 341	2 341	2 341	3 377	3 954	3 963	3 963	3 963	1 946	2 716	2 882	2 882	2 882	
10 Total Energy Demand	8+9	28 101	28 727	29 429	28 592	28 632	29 040	29 474	29 687	31 139	32 123	32 558	33 017	33 482	31 896	33 039	33 645	34 115	34 596
11 System Surplus	7-10	1 888	1 526	847	2 085	2 085	1 896	1 452	1 493	3 316	2 629	2 184	1 725	1 250	4 318	5 396	4 781	4 300	3 819
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 592											
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 85					
Exportable Surplus	11+12+13	986	715	36	965	904	715	271	531	2 946	2 140	1 671	1 212	737	4 233	5 396	4 781	4 300	3 819

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/C25/750MW (WPS Sale & Inv)

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted	1 113	1 113	1 113	1 113	1 113	186													
Proposed	1 336	1 336	1 336	1 336	1 336	223													
3 Total New Imports	2 449	2 449	2 449	2 449	2 449	223													
New Wind																			
5 Total New Power Resources	1+2+3+4	10 102	9 175	7 876	7 653	7 653	7 653	9 510	9 510	9 510	9 510	11 367	11 367	11 367					
Base Supply Power Resources																			
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	2 288	2 288	2 288	2 288	2 288	3 216	3 546	3 568	3 617	3 666	3 714	3 762	3 811	3 860	3 908	3 957	4 005	4 054	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
6 Total Base Supply Power Resources		28 363	28 453	28 443	28 433	29 351	29 671	29 693	29 732	29 781	29 819	29 857	29 906	29 945	29 983	30 032	30 070	30 109	
7 Total Power Resources	5+6	38 465	38 555	38 545	38 535	38 535	38 526	37 547	37 346	37 385	37 434	37 472	39 367	39 416	39 455	39 493	41 399	41 437	41 476
Manitoba Domestic Load																			
2012 Base Load Forecast	32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
Construction Power - Hydro	30	10																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load		32 181	32 632	33 103	33 597	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397
Contracted Exports	1 389	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports	1 493	1 493	1 493	1 493	1 493	1 493	249												
Less: Adverse Water																			
9 Total Net Exports		2 882	2 882	2 882	2 882	1 846	394	145											
10 Total Energy Demand	8+9	35 063	35 514	35 985	36 479	36 969	36 419	35 450	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus	7-10	3 402	3 041	2 560	2 056	1 566	2 107	2 097	1 659	1 210	772	324	1 737	1 300	853	406	1 827	1 381	934
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	3 402	3 041	2 560	2 056	1 566	2 107	2 097	1 659	1 210									

Date: August 16, 2013

		System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K19/C25/750MW																		
Fiscal Year		2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																				
New Power Resources																				
New Hydro																				
Conawapa																				
Keeyask																				
1 Total New Hydro										90	450	630	630	630	630	520	1 040	1 300	1 300	
New Thermal																	630	630	630	
SCGT																	630	630	630	
2 Total New Thermal											90	450	630	630	630	630	1 150	1 670	1 930	1 930
New Imports																				
Contracted																				
Proposed																				
3 Total New Imports																				
4 Total New Power Resources	1+2+3									90	450	630	630	630	630	1 150	1 670	1 930	1 930	
Base Supply Power Resources																				
Existing Hydro		5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																				
Brandon Coal - Unit 5		105	105	105	105	105	105	105	105											
Selkirk Gas		132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT		280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports		550	550	385	385	385	385	385	385	385	385	385	385	385	385	385				
Proposed Imports				220	220	220	220	220	220	220	220	220	220	220	220	220				
Pointe du Bois Rebuild																				
Bipole III Reduced Losses									90	90	90	79	79	79	79	79	18	18	18	
5 Total Base Supply Power Resources		6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 273	6 273	6 273	6 273	6 273	5 668	5 607	5 607	5 607	5 607	
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 374	6 723	6 903	6 903	6 903	6 903	6 818	7 277	7 537	7 537	7 537	
Peak Demand																				
2012 Base Load Forecast		4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863	
Less: 2012 Base DSM Forecast		- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load		4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672	
Contracted Exports		605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	
Proposed Exports																				
8 Total Exports		605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	
9 Total Peak Demand	7+8	5 084	5 178	5 224	5 019	5 057	5 121	5 190	5 240	5 588	5 907	5 980	6 059	6 140	5 724	5 802	5 775	5 861	5 947	
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681	
11 System Surplus	6-9-10	686	583	567	721	678	697	619	548	540	393	311	223	132	453	825	1 102	1 006	909	
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105											
Exportable Surplus	11+12	581	478	462	616	573	592	514	548	540	393	311	223	132	453	825	1 102	1 006	909	

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K19/C25/750MW																			
Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1 930	2 175	2 175	2 175	2 420	2 420	2 665	2 665										
Base Supply Power Resources																			
Existing Hydro	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
5 Total Base Supply Power Resources		5 650																	
6 Total Power Resources	4+5	7 580	7 825	7 825	7 825	8 070	8 070	8 315	8 315										
Peak Demand																			
2012 Base Load Forecast	5 947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378	
Less: 2012 Base DSM Forecast	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
Contracted Exports																			
Proposed Exports																			
8 Total Exports		275	275	275	275	275													
9 Total Peak Demand	7+8	6 032	6 118	6 206	6 297	6 387	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
10 Reserves		691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876
11 System Surplus	6-9-10	857	761	662	560	460	634	534	431	328	225	123	266	164	61	203	101	244	142
Less: Brandon Unit 5																			
Exportable Surplus	11+12	857	761	662	560	460	634	534	431	328	225	123	266	164	61	203	101	244	142

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/C25/750MW

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30
Power Resources																		
New Power Resources																		
New Hydro																		
Conawapa																		
Keeyask																		
1 Total New Hydro									493	2 974	3 003	3 003	3 003	3 003	2 198	4 650	4 650	4 650
New Thermal																		
SCGT																		
CCGT																		
2 Total New Thermal																		
New Imports																		
Contracted																		
Proposed																		
3 Total New Imports																		
New Wind																		
5 Total New Power Resources	1+2+3+4								493	3 902	4 116	4 116	4 116	4 116	6 314	8 766	8 766	8 766
Base Supply Power Resources																		
Existing Hydro																		
Existing Thermal																		
Brandon Coal - Unit 5	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790
Selkirk Gas	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811
Brandon Units 6-7 SCGT	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953
Contracted Imports	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354
Proposed Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271	271	271
Hydro Adjustment	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	155	155	155
Market Purchases	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	139	139	139
Existing Wind	363	363	338	583	493	493	493	493	493	493	493	493	493	493	493	3 624	3 304	3 268
Pointe du Bois Rebuild	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	3 316
Bipole III Reduced Losses																		
6 Total Base Supply Power Resources		29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 553	30 636	30 626	30 626	30 616	29 900	29 669	29 339	29 293
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	31 180	34 455	34 752	34 742	34 742	34 732	36 214	38 435	38 105	38 059
Manitoba Domestic Load																		
2012 Base Load Forecast		24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053
Construction Power - Hydro		10	25	50	50	80	100	70	55	50	55	80	100	100	50	35	30	35
Less: 2012 Base DSM Forecast		- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850
8 Manitoba Net Load		24 899	25 571	25 825	26 087	26 291	26 699	27 133	27 346	27 762	28 169	28 595	29 054	29 519	29 950	30 323	30 763	31 233
Contracted Exports		3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	2 031	1 887	1 472	1 389
Proposed Exports					162	162	162	162	162	162	162	162	162	162	162	162	162	1389
Less: Adverse Water		- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85		
9 Total Net Exports		3 202	3 156	3 156	1 968	1 804	1 804	1 804	1 804	2 840	3 864	3 963	3 963	3 963	1 946	1 887	1 472	1 389
10 Total Energy Demand	8+9	28 101	28 727	28 981	28 055	28 095	28 503	28 937	29 150	30 602	32 033	32 558	33 017	33 482	31 896	32 210	32 235	32 622
11 System Surplus	7-10	1 888	1 526	1 295	2 622	2 622	2 433	1 989	2 030	3 853	2 719	2 184	1 725	1 250	4 318	6 225	5 870	5 437
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592									
13 Adverse Water		- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85		
Exportable Surplus	11+12+13	986	715	484	1 502	1 441	1 252	808	1 068	3 483	2 230	1 671	1 212	737	4 233	6 225	5 870	5 437
																		5 004

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/C25/750MW

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	
Proposed																			
3 Total New Imports	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	
New Wind																			
5 Total New Power Resources	8 766	8 766	8 766	8 766	8 766	8 739	7 653	9 510	9 510	9 510	9 510	11 367	11 367	11 367					
Base Supply Power Resources	1+2+3+4																		
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 363	3 408	3 455	3 504	3 553	3 493	3 520	3 568	3 617	3 666	3 714	3 762	3 811	3 860	3 908	3 957	4 005	4 054	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
6 Total Base Supply Power Resources	29 438	29 573	29 610	29 649	29 698	29 628	29 645	29 693	29 732	29 781	29 819	29 857	29 906	29 945	29 983	30 032	30 070	30 109	
7 Total Power Resources	5+6	38 204	38 339	38 376	38 415	38 464	37 467	37 298	37 346	37 385	37 434	37 472	39 367	39 416	39 455	39 493	41 399	41 437	41 476
Manitoba Domestic Load																			
2012 Base Load Forecast																			
30	32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
10																			
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	32 181	32 632	33 103	33 597	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397	
Contracted Exports																			
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	1 389	1 389	1 389	1 389	1 389	353	145												
10 Total Energy Demand	8+9	33 570	34 021	34 492	34 986	35 476	34 926	35 201	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus	7-10	4 634	4 318	3 884	3 429	2 988	2 541	2 097	1 659	1 210	772	324	1 737	1 300	853	406	1 827	1 381	934
Less : Brandon Unit 5																			
Adverse Water																			
Exportable Surplus	11+12+13	4 634	4 318	3 884</b															

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
K19/Gas25/750MW (WPS Sale & Inv)

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							90	90	90	79	79	79	79	79	79	79	79	79	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 273	5 668									
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 374	6 723	6 903	6 903	6 903	6 543	6 788	6 788	7 033	7 033	
Peak Demand																			
2012 Base Load Forecast	4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672	
Contracted Exports	605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	
Proposed Exports				119	119	119	119	119	119	119	119	119	119	220	220	330	330	330	
8 Total Exports	605	605	724	477	477	477	477	477	752	880	880	880	880	385	605	605	605	605	
9 Total Peak Demand	7+8	5 084	5 178	5 343	5 138	5 176	5 240	5 309	5 359	5 707	5 907	5 980	6 059	6 140	5 724	6 022	6 105	6 191	6 277
10 Reserves	463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681	
11 System Surplus	6-9-10	686	583	448	602	559	578	500	429	421	393	311	223	132	178	116	23	172	75
12 Less: Brandon Unit 5	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
Exportable Surplus	11+12	581	478	343	497	454	473	395	429	421	393	311	223	132	178	116	23	172	75

Date: August 16, 2013

		System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K19/Gas25/750MW (WPS Sale & Inv)																		
Fiscal Year		2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																				
New Power Resources																				
New Hydro																				
Conawapa																				
Keeyask		630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
1 Total New Hydro		630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
New Thermal																				
SCGT		735	980	980	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 470	1 470	1 525
CCGT																				
2 Total New Thermal		735	980	980	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 582	1 582	1 827	1 827	1 882
New Imports																				
Contracted																				
Proposed																				
3 Total New Imports																				
4 Total New Power Resources	1+2+3	1 365	1 610	1 610	1 855	2 212	2 212	2 212	2 457	2 457	2 512									
Base Supply Power Resources																				
Existing Hydro		5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177
Existing Thermal																				
Brandon Coal - Unit 5																				
Selkirk Gas		132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
Brandon Units 6-7 SCGT		280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280
Contracted Imports																				
Proposed Imports																				
Pointe du Bois Rebuild		43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
Bipole III Reduced Losses		79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79
5 Total Base Supply Power Resources		5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	
6 Total Power Resources	4+5	7 076	7 321	7 321	7 566	7 923	7 923	7 923	8 168	8 168	8 223									
Peak Demand																				
2012 Base Load Forecast		5 947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378	
Less: 2012 Base DSM Forecast		- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load		5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
Contracted Exports		275	275	275	275	275														
Proposed Exports		330	330	330	330	330														
8 Total Exports		605	605	605	605	605														
9 Total Peak Demand	7+8	6 362	6 448	6 536	6 627	6 717	6 532	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
10 Reserves		691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876	
11 System Surplus	6-9-10	23	172	73	216	116	290	520	417	314	211	109	7	262	159	56	199	97	50	
12 Less: Brandon Unit 5																				
Exportable Surplus	11+12	23	172	73	216	116	290	520	417	314	211	109	7	262	159	56	199	97	50	

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/Gas25/750MW (WPS Sale & Inv)

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro									493	2 974	3 003								
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																	1 857	1 857	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports									928	1 113									
New Wind																			
4 Total New Power Resources	1+2+3+4								493	3 902	4 116	4 858	5 378	7 309					
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas																			
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases																			
Existing Wind																			
Pointe du Bois Rebuild																			
Bipole III Reduced Losses																			
6 Total Base Supply Power Resources		29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 553	30 636	30 626	30 626	30 616	29 900	29 019	28 490	28 405	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	31 180	34 455	34 752	34 742	34 742	34 732	34 016	33 877	33 868	35 714	35 714
Manitoba Domestic Load																			
2012 Base Load Forecast																			
Construction Power - Hydro																			
Less: 2012 Base DSM Forecast																			
8 Manitoba Net Load		24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511
Contracted Exports																			
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports		3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	2 031	1 887	1 472	1 389	1 389
10 Total Energy Demand	8+9	28 101	28 727	29 429	28 592	28 632	29 030	29 459	29 667	31 109	32 073	32 503	32 937	33 382	31 806	33 009	33 640	34 115	34 596
11 System Surplus	7-10	1 888	1 526	847	2 085	2 085	1 906	1 467	1 513	3 346	2 679	2 239	1 805	1 350	2 210	868	228	1 599	1 118
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592										
13 Adverse Water		- 91			- 309	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85				
Exportable Surplus	11+12+13	986	715	36	965	904	725	286	551	2 976	2 190	1 726	1 292	837	2 125	868	228	1 599	1 118

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/Gas25/750MW (WPS Sale & Inv)

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
New Thermal																			
SCGT	1 857	1 857	3 714	3 714	3 714	3 714	3 714	3 714	3 714	5 571	5 571	5 571	5 571	5 571	5 571	5 571	5 571	5 571	
CCGT																			
2 Total New Thermal	1 857	1 857	3 714	5 571															
New Imports																			
Contracted	1 113	1 113	1 113	1 113	1 113	186													
Proposed	1 336	1 336	1 336	1 336	1 336	223													
3 Total New Imports	2 449	2 449	2 449	2 449	2 449	223													
New Wind																			
5 Total New Power Resources	1+2+3+4	7 309	7 309	9 166	9 166	9 166	8 239	6 940	6 717	6 717	8 574	8 574	8 574	11 280					
Base Supply Power Resources																			
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	2 288	2 288	2 288	2 288	2 288	3 216	3 546	3 568	3 617	3 666	3 714	3 762	3 811	3 860	3 908	3 957	4 005	4 054	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	
6 Total Base Supply Power Resources	28 455	28 545	28 535	28 525	28 525	29 443	29 763	29 785	29 824	29 873	29 911	29 949	29 998	30 037	30 075	30 124	30 162	30 201	
7 Total Power Resources	5+6	35 764	35 854	37 701	37 691	37 691	37 682	36 703	36 502	36 541	38 447	38 485	38 523	41 278	41 317	41 355	41 404	41 442	41 481
Manitoba Domestic Load																			
2012 Base Load Forecast	32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
Construction Power - Hydro	30	10																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	32 181	32 632	33 103	33 597	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397	
Contracted Exports	1 389	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports	1 493	1 493	1 493	1 493	1 493	1 493	249												
Less: Adverse Water																			
9 Total Net Exports	2 882	2 882	2 882	2 882	2 882	1 846	394	145											
10 Total Energy Demand	8+9	35 063	35 514	35 985	36 479	36 969	36 419	35 450	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus	7-10	701	340	1 716	1 212	722	1 263	1 253	815	366	1 785	1 337	893	3 162	2 715	2 268	1 832	1 386	939
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	701	340	1 7															

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
K19/C31/750MW**

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro									90	450	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3								90	450	630	630	630	630	697	784	767	863	960
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105											
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses									90	90	90	79	79	79	79	79	79	79	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 273	6 273	6 273	6 273	5 668						
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 374	6 723	6 903	6 903	6 903	6 365	6 452	6 435	6 531	6 628	
Peak Demand																			
2012 Base Load Forecast	4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672	
Contracted Exports	605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	
8 Total Exports	605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	
9 Total Peak Demand	7+8	5 084	5 178	5 224	5 019	5 057	5 121	5 190	5 240	5 588	5 907	5 980	6 059	6 140	5 724	5 802	5 775	5 861	5 947
10 Reserves	463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681	
11 System Surplus	6-9-10	686	583	567	721	678	697	619	548	540	393	311	223	132					
12 Less: Brandon Unit 5	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105										
Exportable Surplus	11+12	581	478	462	616	573	592	514	548	540	393	311	223	132					

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
K19/C31/750MW**

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	520	1 040	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	630	1 150	1 670	1 930															
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	
4 Total New Power Resources	1 012	1 150	1 670	1 930															
Base Supply Power Resources																			
Existing Hydro	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	79	79	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
5 Total Base Supply Power Resources	5 711	5 711	5 650																
6 Total Power Resources	4+5	6 723	6 861	7 320	7 580	7 825	7 825	8 070	8 070	8 315	8 315								
Peak Demand																			
2012 Base Load Forecast	5 947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378	
Less: 2012 Base DSM Forecast	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
Contracted Exports																			
Proposed Exports																			
8 Total Exports	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	
9 Total Peak Demand	7+8	6 032	6 118	6 206	6 297	6 387	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
10 Reserves	691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876	
11 System Surplus	6-9-10	42	402	560	460	634	534	431	328	225	123	266	164	61	203	101	244	142	
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	42	402	560	460	634	534	431	328	225	123	266	164	61	203	101	244	142	

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/C31/750MW

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro									493	2 974	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports										928	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	
New Wind																			
5 Total New Power Resources	1+2+3+4								493	3 902	4 116								
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Selkirk Gas	811	811	811	811	811	811	811	811	592	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Contracted Imports	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Proposed Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271			
Hydro Adjustment	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	155			
Market Purchases	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	139			
Existing Wind	363	363	338	583	493	493	493	493	493	4957	1 050	1 050	1 050	1 050	3 198	3 624	3 308	3 273	
Pointe du Bois Rebuild	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Bipole III Reduced Losses									239	239	239	243	243	243	243	243	243	243	
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 553	30 636	30 626	30 626	30 616	29 900	29 761	29 435	29 390	29 441	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	31 180	34 455	34 752	34 742	34 732	34 016	33 877	33 551	33 506	33 557	
Manitoba Domestic Load																			
2012 Base Load Forecast																			
Contracted Power - Hydro	24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511	
Less: 2012 Base DSM Forecast	10	25	50	50	70	85	50	25			10	15	30	50	80	85	115		
8 Manitoba Net Load	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
Contracted Exports	24 899	25 571	25 825	26 087	26 291	26 689	27 118	27 326	27 732	28 119	28 540	28 984	29 434	29 880	30 323	30 808	31 288	31 794	
Proposed Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	2 031	1 887	1 472	1 389	1 389	
Less: Adverse Water	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162				
9 Total Net Exports	- 91			- 309	- 370	- 489	- 513	- 513	- 513	- 513	- 85								
10 Total Energy Demand	8+9	28 101	28 727	28 981	28 055	28 095	28 493	28 922	29 130	30 572	31 983	32 503	32 947	33 397	31 826	32 210	32 280	32 677	33 183
11 System Surplus	7-10	1 888	1 526	1 295	2 622	2 622	2 443	2 004	2 050	3 883	2 769	2 239	1 795	1 335	2 190	1 667	1 271	829	374
Less : Brandon Unit 5	- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592										
Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85				
Exportable Surplus	11+12+13	986	715	484	1 502	1 441	1 262	823	1 088	3 513	2 280	1 726	1 282	822	2 105	1 667	1 271	829	374

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/C31/750MW

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	2 198	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	3 003	5 201	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	
Proposed																			
3 Total New Imports	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	
New Wind																			
5 Total New Power Resources	4 116	6 314	8 766	8 766	8 766	7 839	7 653	9 510	9 510	9 510	9 510	11 367	11 367	11 367					
Base Supply Power Resources	1+2+3+4																		
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 387	3 417	3 458	3 505	3 553	3 493	3 520	3 568	3 617	3 666	3 714	3 762	3 811	3 860	3 908	3 957	4 005	4 054	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	243	243	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
6 Total Base Supply Power Resources	29 554	29 674	29 613	29 650	29 698	29 628	29 645	29 693	29 732	29 781	29 819	29 857	29 906	29 945	29 983	30 032	30 070	30 109	
7 Total Power Resources	5+6	33 670	35 988	38 379	38 416	38 464	37 467	37 298	37 346	37 385	37 434	37 472	39 367	39 416	39 455	39 493	41 399	41 437	41 476
Manitoba Domestic Load																			
2012 Base Load Forecast	32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
Construction Power - Hydro	130	100	30	5															
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	32 281	32 722	33 133	33 602	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397	
Contracted Exports	1 389	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	1 389	1 389	1 389	1 389	1 389	353	145												
10 Total Energy Demand	8+9	33 670	34 111	34 522	34 991	35 476	34 926	35 201	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus	7-10	1 877	3 857	3 425	2 988	2 541	2 097	1 659	1 210	772	324	1 737	1 300	853	406	1 827	1 381	934	
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	1 877	3 857	3 425 </td															

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
K19/Gas31/750MW

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro									90	450	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3								90	450	630	630	630	630	697	784	767	863	960
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses									90	90	90	79	79	79	79	79	79	79	
5 Total Base Supply Power Resources		6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 273	6 273	6 273	6 273	5 668					
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 374	6 723	6 903	6 903	6 903	6 365	6 452	6 435	6 531	6 628	
Peak Demand																			
2012 Base Load Forecast	4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672	
Contracted Exports	605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	
Proposed Exports																			
8 Total Exports		605	605	605	358	358	358	358	633	880	880	880	880	385	385	275	275	275	
9 Total Peak Demand	7+8	5 084	5 178	5 224	5 019	5 057	5 121	5 190	5 240	5 588	5 907	5 980	6 059	6 140	5 724	5 802	5 775	5 861	5 947
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681
11 System Surplus	6-9-10	686	583	567	721	678	697	619	548	540	393	311	223	132					
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
Exportable Surplus	11+12	581	478	462	616	573	592	514	548	540	393	311	223	132					

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
K19/Gas31/750MW

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48		
Power Resources																				
New Power Resources																				
New Hydro																				
Conawapa																				
Keeyask																				
1 Total New Hydro		630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630		
New Thermal																				
SCGT																				
CCGT																				
2 Total New Thermal		490	735	735	980	980	980	980	980	980	1 337	1 337	1 337	1 337	1 582	1 582	1 939	1 939		
New Imports																				
Contracted																				
Proposed																				
3 Total New Imports		382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382		
4 Total New Power Resources		1 012	1 120	1 365	1 365	1 610	1 610	1 610	1 610	1 967	1 967	1 967	1 967	2 212	2 212	2 569	2 569	2 569		
Base Supply Power Resources																				
Existing Hydro																				
Existing Thermal																				
Brandon Coal - Unit 5																				
Selkirk Gas																				
Brandon Units 6-7 SCGT																				
Contracted Imports																				
Proposed Imports																				
Pointe du Bois Rebuild																				
Bipole III Reduced Losses																				
5 Total Base Supply Power Resources		5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711		
6 Total Power Resources		4+5	6 723	6 831	7 076	7 076	7 321	7 321	7 321	7 321	7 678	7 678	7 678	7 923	7 923	8 280	8 280	8 280		
Peak Demand																				
2012 Base Load Forecast																				
Less: 2012 Base DSM Forecast																				
7 Manitoba Net Load		5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
Contracted Exports																				
Proposed Exports																				
8 Total Exports		275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275		
9 Total Peak Demand		6+7	6 032	6 118	6 206	6 297	6 387	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
10 Reserves																				
11 System Surplus		6-9-10	12	158	56	201	375	275	172	69	323	221	119	17	159	56	311	209	107	
12 Less: Brandon Unit 5																				

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/Gas31/750MW

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro									493	2 974	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports										928	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	
New Wind																			
5 Total New Power Resources	1+2+3+4								493	3 902	4 116								
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Selkirk Gas	811	811	811	811	811	811	811	811	592	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Contracted Imports	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Proposed Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271			
Hydro Adjustment	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	155			
Market Purchases	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	139			
Existing Wind	363	363	338	583	493	493	493	493	493	957	1 050	1 050	1 050	1 050	3 198	3 624	3 303	3 268	
Pointe du Bois Rebuild	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Bipole III Reduced Losses									239	239	239	243	243	243	243	243	243	243	
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 553	30 636	30 626	30 626	30 616	29 900	29 761	29 430	29 385	29 433	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	31 180	34 455	34 752	34 742	34 732	34 016	33 877	33 546	33 501	33 549	
Manitoba Domestic Load																			
2012 Base Load Forecast																			
Contracted Power - Hydro	24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511	
Less: 2012 Base DSM Forecast	10	25	50	50	70	85	50	25						10	20	30	30	35	
8 Manitoba Net Load	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
Contracted Exports	24 899	25 571	25 825	26 087	26 291	26 689	27 118	27 326	27 732	28 119	28 540	28 974	29 419	29 860	30 293	30 758	31 233	31 714	
Proposed Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	2 031	1 887	1 472	1 389	1 389	
Less: Adverse Water	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162				
9 Total Net Exports	- 91			- 309	- 370	- 489	- 513	- 513	- 513	- 513	- 85								
10 Total Energy Demand	8+9	28 101	28 727	28 981	28 055	28 095	28 493	28 922	29 130	30 572	31 983	32 503	32 937	33 382	31 806	32 180	32 230	32 622	33 103
11 System Surplus	7-10	1 888	1 526	1 295	2 622	2 622	2 443	2 004	2 050	3 883	2 769	2 239	1 805	1 350	2 210	1 697	1 316	879	446
Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592										
Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85				
Exportable Surplus	11+12+13	986	715	484	1 502	1 441	1 262	823	1 088	3 513	2 280	1 726	1 292	837	2 125	1 697	1 316	879	446

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/Gas31/750MW

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
New Thermal																			
SCGT	1 857	1 857	1 857	1 857	1 857	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	
CCGT																			
2 Total New Thermal	1 857	1 857	1 857	1 857	1 857	3 714	3 714	3 714	3 714	6 420	9 126	9 126	9 126						
New Imports																			
Contracted	1 113	1 113	1 113	1 113	1 113	186													
Proposed																			
3 Total New Imports	1 113	1 113	1 113	1 113	1 113	186													
New Wind																			
5 Total New Power Resources	4 116	5 973	5 973	5 973	5 973	6 903	6 717	6 717	9 423	12 129	12 129	12 129	12 129						
Base Supply Power Resources	1+2+3+4																		
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 363	3 408	3 455	3 504	3 553	3 493	3 520	3 568	3 617	3 666	3 714	3 762	3 811	3 860	3 908	3 957	4 005	4 054	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	
6 Total Base Supply Power Resources	29 530	29 665	29 702	29 741	29 790	29 720	29 737	29 785	29 824	29 873	29 911	29 949	29 998	30 037	30 075	30 124	30 162	30 201	
7 Total Power Resources	5+6	33 646	35 638	35 675	35 714	35 763	36 623	36 454	36 502	36 541	39 296	39 334	39 372	39 421	39 460	39 498	42 253	42 291	42 330
Manitoba Domestic Load																			
2012 Base Load Forecast																			
30	32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
10																			
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	32 181	32 632	33 103	33 597	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397	
Contracted Exports																			
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	1 389	1 389	1 389	1 389	1 389	353	145												
10 Total Energy Demand	8+9	33 570	34 021	34 492	34 986	35 476	34 926	35 201	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus	7-10	76	1 617	1 183	728	287	1 697	1 253	815	366	2 634	2 186	1 742	1 305	858	411	2 681	2 235	1 788
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	76	1 617	1 183	728														

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
K19/C25/250MW

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30
Power Resources																		
New Power Resources																		
New Hydro																		
Conawapa																		
Keeyask																		
1 Total New Hydro									90	450	630	630	630	630	520	1 040	1 300	1 300
New Thermal																		
SCGT																		
CCGT																		
2 Total New Thermal																		
New Imports																		
Contracted																		
Proposed																		
3 Total New Imports																		
4 Total New Power Resources	1+2+3								90	450	630	630	630	630	1 150	1 670	1 930	1 930
Base Supply Power Resources																		
Existing Hydro		5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177
Existing Thermal																		
Brandon Coal - Unit 5		105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
Selkirk Gas		132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
Brandon Units 6-7 SCGT		280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280
Contracted Imports		550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385
Proposed Imports				220	220	220	220	220	220	220	220	220	220	220	220	220	220	220
Pointe du Bois Rebuild																		
Bipole III Reduced Losses									90	90	90	79	79	79	79	79	18	18
5 Total Base Supply Power Resources		6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 273	6 273	6 273	6 273	6 273	5 668	5 607	5 607	5 607
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 374	6 723	6 903	6 903	6 903	6 903	6 818	7 277	7 537	7 537
Peak Demand																		
2012 Base Load Forecast		4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779
Less: 2012 Base DSM Forecast		- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193
7 Manitoba Net Load		4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586
Contracted Exports		605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275
Proposed Exports																		
8 Total Exports		605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275
9 Total Peak Demand	7+8	5 084	5 178	5 224	5 019	5 057	5 121	5 190	5 240	5 588	5 907	5 980	6 059	6 140	5 724	5 802	5 775	5 861
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670
11 System Surplus	6-9-10	686	583	567	721	678	697	619	548	540	393	311	223	132	453	825	1 102	1 006
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105								
Exportable Surplus	11+12	581	478	462	616	573	592	514	548	540	393	311	223	132	453	825	1 102	1 006

Date: August 16, 2013

		System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K19/C25/250MW																		
Fiscal Year		2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																				
New Power Resources																				
New Hydro																				
Conawapa		1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask		630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro		1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	
New Thermal																				
SCGT																				
CCGT																				
2 Total New Thermal																				
New Imports																				
Contracted																				
Proposed																				
3 Total New Imports																				
4 Total New Power Resources	1+2+3	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	2 175	2 175	2 175	2 175	2 420	2 420	2 665	2 665	
Base Supply Power Resources																				
Existing Hydro		5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																				
Brandon Coal - Unit 5																				
Selkirk Gas		132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT		280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																				
Proposed Imports																				
Pointe du Bois Rebuild		43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses		18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
5 Total Base Supply Power Resources		5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	
6 Total Power Resources	4+5	7 580	7 580	7 580	7 580	7 580	7 580	7 580	7 580	7 580	7 580	7 825	7 825	7 825	7 825	8 070	8 070	8 315	8 315	
Peak Demand																				
2012 Base Load Forecast		5 947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378	
Less: 2012 Base DSM Forecast		- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load		5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
Contracted Exports		275	275	275	275	275														
Proposed Exports																				
8 Total Exports		275	275	275	275	275														
9 Total Peak Demand	7+8	6 032	6 118	6 206	6 297	6 387	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
10 Reserves		691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876	
11 System Surplus	6-9-10	857	761	662	560	460	634	534	431	328	225	368	266	164	61	203	101	244	142	
12 Less: Brandon Unit 5																				
Exportable Surplus	11+12	857	761	662	560	460	634	534	431	328	225	368	266	164	61	203	101	244	142	

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/C25/250MW

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro									493	2 974	3 003	3 003	3 003	3 003	2 198	4 650	4 650	4 650	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4								493	3 160	3 226	3 226	3 226	3 226	5 424	7 876	7 876	7 876	
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Selkirk Gas	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Brandon Units 6-7 SCGT	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Contracted Imports	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Proposed Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	
Hydro Adjustment	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	
Market Purchases	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	844	844	
Existing Wind	363	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	493	493	
Pointe du Bois Rebuild	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Bipole III Reduced Losses									239	239	239	239	239	239	239	239	239	239	
6 Total Base Supply Power Resources		29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 089	30 079	30 069	30 069	30 257	29 343	29 113	29 103	29 093	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	31 180	33 249	33 305	33 295	33 295	33 483	34 767	36 989	36 979	36 969	
Manitoba Domestic Load																			
2012 Base Load Forecast		24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	
Construction Power - Hydro		10	25	50	50	80	100	70	55	50	55	80	100	100	100	50	35	35	
Less: 2012 Base DSM Forecast		- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	
8 Manitoba Net Load		24 899	25 571	25 825	26 087	26 291	26 699	27 133	27 346	27 762	28 169	28 595	29 054	29 519	29 950	30 323	30 763	31 233	
Contracted Exports		3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	4 314	2 031	1 887	1 472	
Proposed Exports					162	162	162	162	162	162	162	162	162	162	162	162	162	162	
Less: Adverse Water		- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85			
9 Total Net Exports		3 202	3 156	3 156	1 968	1 804	1 804	1 804	1 804	2 840	3 864	3 963	3 963	3 963	1 946	1 887	1 472	1 389	
10 Total Energy Demand	8+9	28 101	28 727	28 981	28 055	28 095	28 503	28 937	29 150	30 602	32 033	32 558	33 017	33 482	31 896	32 210	32 235	32 622	
11 System Surplus	7-10	1 888	1 526	1 295	2 622	2 622	2 433	1 989	2 030	2 647	1 272	737	278	1	2 871	4 779	4 744	4 347	
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592										
13 Adverse Water		- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85			
Exportable Surplus	11+12+13	986	715	484	1 502	1 441	1 252	808	1 068	2 277	783	224				2 786	4 779	4 744	4 347

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/C25/250MW

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	
Proposed																			
3 Total New Imports	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	
New Wind																			
5 Total New Power Resources	1+2+3+4	7 876	7 690	7 653	7 653	7 653	9 510	9 510	9 510	9 510	11 367	11 367	11 367	11 367					
Base Supply Power Resources																			
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 068	3 068	3 068	3 068	3 068	3 253	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
6 Total Base Supply Power Resources	29 143	29 233	29 223	29 213	29 213	29 388	29 415	29 415	29 405	29 405	29 395	29 385	29 385	29 375	29 365	29 365	29 355	29 345	
7 Total Power Resources	5+6	37 019	37 109	37 099	37 089	37 089	37 078	37 068	37 068	37 058	37 058	38 905	38 895	38 895	40 732	40 722	40 712		
Manitoba Domestic Load																			
2012 Base Load Forecast	32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
Construction Power - Hydro	30	10																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	32 181	32 632	33 103	33 597	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397	
Contracted Exports	1 389	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	1 389	1 389	1 389	1 389	1 389	353	145												
10 Total Energy Demand	8+9	33 570	34 021	34 492	34 986	35 476	34 926	35 201	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus	7-10	3 449	3 088	2 607	2 103	1 613	2 152	1 867	1 381	883	396	1 757	1 265	779	283	1 645	1 160	666	170
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	3 449	3 088	2 607	2 103	1 613	2 152	1 867	1 381	883	396	1 7							

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
K19/Gas24/250MW**

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro									90	450	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3								90	450	630	630	630	875	875	875	875	1 120	
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105											
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports																			
Pointe du Bois Rebuild																			
Bipole III Reduced Losses									90	90	90	79	79	79	79	79	79	79	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 273	6 273	6 273	6 273	5 668						
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 374	6 723	6 903	6 903	7 148	6 543	6 543	6 543	6 543	6 788	
Peak Demand																			
2012 Base Load Forecast	4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672	
Contracted Exports	605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	
8 Total Exports	605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	
9 Total Peak Demand	7+8	5 084	5 178	5 224	5 019	5 057	5 121	5 190	5 240	5 588	5 907	5 980	6 059	6 140	5 724	5 802	5 775	5 861	5 947
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681
11 System Surplus	6-9-10	686	583	567	721	678	697	619	548	540	393	311	223	377	178	91	108	12	160
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105										
Exportable Surplus	11+12	581	478	462	616	573	592	514	548	540	393	311	223	377	178	91	108	12	160

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
K19/Gas24/250MW**

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	
CCGT		357	357	357	357	357	357	357	714	714	714	1 071	1 071	1 071	1 071	1 428	1 428	1 428	
2 Total New Thermal	490	490	847	847	847	847	847	847	1 204	1 204	1 204	1 561	1 561	1 561	1 561	1 918	1 918	1 918	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1 120	1 120	1 477	1 834	1 834	1 834	2 191	2 191	2 191	2 191	2 548	2 548	2 548					
Base Supply Power Resources																			
Existing Hydro	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	
5 Total Base Supply Power Resources	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711		
6 Total Power Resources	4+5	6 831	6 831	7 188	7 545	7 545	7 545	7 902	7 902	7 902	7 902	8 259	8 259	8 259					
Peak Demand																			
2012 Base Load Forecast	5 947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378	
Less: 2012 Base DSM Forecast	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
Contracted Exports																			
Proposed Exports																			
8 Total Exports	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	
9 Total Peak Demand	7+8	6 032	6 118	6 206	6 297	6 387	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
10 Reserves	691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876	
11 System Surplus	6-9-10	108	12	270	168	68	242	142	39	293	190	88	343	241	138	35	290	188	86
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	108	12	270	168	68	242	142	39	293	190	88	343	241	138	35	290	188	86

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/Gas24/250MW

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro									493	2 974	3 003								
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																1 857	1 857	1 857	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																186	223	223	
New Wind																			
5 Total New Power Resources	1+2+3+4								493	3 160	3 226	3 226	3 226	5 083					
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Selkirk Gas	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Brandon Units 6-7 SCGT	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Contracted Imports	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Proposed Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	
Hydro Adjustment	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	
Market Purchases	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	844	844	
Existing Wind	363	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	493	493	
Pointe du Bois Rebuild	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Bipole III Reduced Losses																			
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 089	30 079	30 069	30 069	30 059	29 343	29 205	29 195	29 185	29 185	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	31 180	33 249	33 305	33 295	33 295	35 142	34 426	34 288	34 278	34 268	34 268
Manitoba Domestic Load																			
2012 Base Load Forecast																			
Contracted Power - Hydro	24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511	
Less: 2012 Base DSM Forecast																			
8 Manitoba Net Load	10	25	50	50	70	85	50	25							10	20	30	30	35
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
Contracted Exports	24 899	25 571	25 825	26 087	26 291	26 689	27 118	27 326	27 732	28 119	28 540	28 974	29 419	29 860	30 293	30 758	31 233	31 714	
Proposed Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	2 031	1 887	1 472	1 389	1 389
Less: Adverse Water																			
9 Total Net Exports	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	
10 Total Energy Demand	8+9	28 101	28 727	28 981	28 055	28 095	28 493	28 922	29 130	30 572	31 983	32 503	32 937	33 382	31 806	32 180	32 230	32 622	33 103
11 System Surplus	7-10	1 888	1 526	1 295	2 622	2 622	2 443	2 004	2 050	2 677	1 322	792	358	1 760	2 620	2 108	2 048	1 646	1 165
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592										
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85				
Exportable Surplus	11+12+13	986	715	484	1 502	1 441	1 262	823	1 088	2 307	833	279	1 247	2 535					

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/Gas24/250MW

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal	1 857	1 857	4 563	4 563	4 563	4 563	4 563	7 269	7 269	7 269	9 975	9 975	9 975	12 681	12 681	12 681			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports	223	223	223	223	223	223	223	37	37	37	37	37	37	37	37	37	37	37	
4 New Wind																			
5 Total New Power Resources	5 083	5 083	7 789	7 789	7 789	7 603	7 566	7 566	10 272	10 272	10 272	12 978	12 978	12 978	15 684	15 684	15 684		
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas																			
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases																			
Existing Wind																			
Pointe du Bois Rebuild																			
Bipole III Reduced Losses																			
6 Total Base Supply Power Resources	29 235	29 325	29 315	29 305	29 305	29 480	29 507	29 497	29 497	29 487	29 477	29 477	29 467	29 457	29 457	29 447	29 437		
7 Total Power Resources	34 318	34 408	37 104	37 094	37 094	37 083	37 073	37 073	39 769	39 769	39 759	42 455	42 455	42 435	45 141	45 131	45 121		
Manitoba Domestic Load																			
2012 Base Load Forecast																			
Construction Power - Hydro																			
Less: 2012 Base DSM Forecast																			
8 Manitoba Net Load	32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
Contracted Exports																			
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	30	10	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	
10 Total Energy Demand	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389		
11 System Surplus	7-10	748	387	2 612	2 108	1 618	2 157	1 872	1 386	3 594	3 107	2 611	4 825	4 339	3 843	3 348	5 569	5 075	
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	748	387	2 612	2 108	1 618	2 157	1 872	1 386	3 594	3 107	2 611	4 825	4 339	3 843	3 348	5 569	5 075	4 579

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
K19/C31/250MW

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro									90	450	630	630	630	630	630	630	630	630	
New Thermal										90	450	630	630	630	630	630	630	630	
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3								90	450	630	630	875	875	875	875	875	1 120	
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105											
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses									90	90	90	79	79	79	79	79	79	79	
5 Total Base Supply Power Resources		6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 273	6 273	6 273	6 273	5 668	5 668	5 668	5 668	5 668	
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 374	6 723	6 903	6 903	7 148	6 543	6 543	6 543	6 543	6 788	
Peak Demand																			
2012 Base Load Forecast	4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672	
Contracted Exports	605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	
Proposed Exports																			
8 Total Exports	605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	
9 Total Peak Demand	7+8	5 084	5 178	5 224	5 019	5 057	5 121	5 190	5 240	5 588	5 907	5 980	6 059	6 140	5 724	5 802	5 775	5 861	5 947
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681
11 System Surplus	6-9-10	686	583	567	721	678	697	619	548	540	393	311	223	377	178	91	108	12	160
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105										
Exportable Surplus	11+12	581	478	462	616	573	592	514	548	540	393	311	223	377	178	91	108	12	160

Date: August 16, 2013

		System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K19/C31/250MW																		
Fiscal Year		2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																				
New Power Resources																				
New Hydro																				
Conawapa		520	1 040	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask		630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro		630	1 150	1 670	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	
New Thermal																				
SCGT		490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	
CCGT																				
2 Total New Thermal		490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	
New Imports																				
Contracted																				
Proposed																				
3 Total New Imports																				
4 Total New Power Resources	1+2+3	1 120	1 640	2 160	2 420	2 665	2 665													
Base Supply Power Resources																				
Existing Hydro		5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																				
Brandon Coal - Unit 5																				
Selkirk Gas		132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT		280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																				
Proposed Imports																				
Pointe du Bois Rebuild		43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses		79	79	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
5 Total Base Supply Power Resources		5 711	5 711	5 650																
6 Total Power Resources	4+5	6 831	7 351	7 810	8 070	8 315	8 315													
Peak Demand																				
2012 Base Load Forecast		5 947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378	
Less: 2012 Base DSM Forecast		- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load		5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
Contracted Exports		275	275	275	275	275														
Proposed Exports																				
8 Total Exports		275	275	275	275	275														
9 Total Peak Demand	7+8	6 032	6 118	6 206	6 297	6 387	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
10 Reserves		691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876	
11 System Surplus	6-9-10	108	532	892	1 050	950	1 124	1 024	921	818	715	613	511	409	306	203	101	244	142	
12 Less: Brandon Unit 5																				
Exportable Surplus	11+12	108	532	892	1 050	950	1 124	1 024	921	818	715	613	511	409	306	203	101	244	142	

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/C31/250MW

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro									493	2 974	3 003								
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																1 857	1 857	1 857	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																186	223	223	
New Wind																			
5 Total New Power Resources	1+2+3+4								493	3 160	3 226	3 226	3 226	5 083					
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Selkirk Gas	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Brandon Units 6-7 SCGT	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Contracted Imports	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Proposed Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	
Hydro Adjustment	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	
Market Purchases	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	844	844	
Existing Wind	363	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	493	493	
Pointe du Bois Rebuild	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Bipole III Reduced Losses																			
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 089	30 079	30 069	30 069	30 059	29 343	29 205	29 195	29 185	29 185	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	31 180	33 249	33 305	33 295	33 295	35 142	34 426	34 288	34 278	34 268	34 268
Manitoba Domestic Load																			
2012 Base Load Forecast																			
Contracted Power - Hydro	24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511	
Less: 2012 Base DSM Forecast																			
8 Manitoba Net Load	10	25	50	50	70	85	50	25						10	15	30	50	80	85
Less: Adverse Water	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
9 Total Net Exports	24 899	25 571	25 825	26 087	26 291	26 689	27 118	27 326	27 732	28 119	28 540	28 984	29 434	29 880	30 323	30 808	31 288	31 794	
10 Total Energy Demand	8+9	28 101	28 727	28 981	28 055	28 095	28 493	28 922	29 130	30 572	31 983	32 503	32 947	33 397	31 826	32 210	32 280	32 677	33 183
11 System Surplus	7-10	1 888	1 526	1 295	2 622	2 622	2 443	2 004	2 050	2 677	1 322	792	348	1 745	2 600	2 078	1 998	1 591	1 085
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592										
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85				
Exportable Surplus	11+12+13	986	715	484	1 502	1 441	1 262	823	1 088	2 307	833	279		1 232	2 515	2 078	1 998	1 591	1 085

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/C31/250MW

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	2 198	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	3 003	5 201	7 653																
New Thermal																			
SCGT	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	3 714	3 714	3 714	
CCGT																			
2 Total New Thermal	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	3 714	3 714	3 714	
New Imports																			
Contracted	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	
Proposed																			
3 Total New Imports	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	
New Wind																			
5 Total New Power Resources	1+2+3+4	5 083	7 281	9 733	9 733	9 733	9 547	9 510	11 367	11 367	11 367								
Base Supply Power Resources																			
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 068	3 068	3 068	3 068	3 068	3 253	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	243	243	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
6 Total Base Supply Power Resources	29 235	29 325	29 223	29 213	29 213	29 388	29 415	29 415	29 405	29 405	29 395	29 385	29 385	29 375	29 365	29 365	29 355	29 345	
7 Total Power Resources	5+6	34 318	36 606	38 956	38 946	38 946	38 935	38 925	38 925	38 915	38 915	38 905	38 895	38 895	40 732	40 722	40 712		
Manitoba Domestic Load																			
2012 Base Load Forecast	32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
Construction Power - Hydro	130	100	30	5															
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	32 281	32 722	33 133	33 602	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397	
Contracted Exports	1 389	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	1 389	1 389	1 389	1 389	1 389	353	145												
10 Total Energy Demand	8+9	33 670	34 111	34 522	34 991	35 476	34 926	35 201	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus	7-10	648	2 495	4 434	3 955	3 470	4 009	3 724	3 238	2 740	2 253	1 757	1 265	779	283	1 645	1 160	666	170
12 Less : Brandon Unit 5																			
13 Adverse Water			</																

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation

NFAT 2012 Reference

All Gas

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679										
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 284	6 284	6 529	6 529	6 169	6 169	6 414	6 414	6 414	
Peak Demand																			
2012 Base Load Forecast	4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672	
Contracted Exports	605	605	605	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	
Proposed Exports																			
8 Total Exports	605	605	605	358															
9 Total Peak Demand	7+8	5 084	5 178	5 224	5 019	5 057	5 121	5 190	5 240	5 313	5 385	5 458	5 537	5 618	5 339	5 417	5 500	5 586	5 672
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681
11 System Surplus	6-9-10	686	583	567	721	678	697	619	458	376	296	459	371	280	189	102	9	158	61
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
Exportable Surplus	11+12	581	478	462	616	573	592	514	458	376	296	459	371	280	189	102	9	158	61

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation

NFAT 2012 Reference

All Gas

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro	735	735	735	735	980	1 035													
New Thermal																			
SCGT	735	357	357	357	357	357	357	714	714	714	1 071	1 071	1 071	1 071	1 428	1 428	1 428	1 428	
CCGT																			
2 Total New Thermal	735	1 092	1 092	1 092	1 337	1 337	1 337	1 694	1 694	1 694	2 051	2 051	2 051	2 051	2 408	2 408	2 408	2 463	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports	735	1 092	1 092	1 092	1 337	1 337	1 337	1 694	1 694	1 694	2 051	2 051	2 051	2 051	2 408	2 408	2 408	2 463	
4 Total New Power Resources	735	1 092	1 092	1 092	1 337	1 337	1 337	1 694	1 694	1 694	2 051	2 051	2 051	2 051	2 408	2 408	2 408	2 463	
Base Supply Power Resources																			
Existing Hydro	5177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Selkirk Gas	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	
6 Total Power Resources	4+5	6 457	6 814	6 814	6 814	7 059	7 059	7 059	7 416	7 416	7 416	7 773	7 773	7 773	8 130	8 130	8 130	8 185	
Peak Demand																			
2012 Base Load Forecast	5947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378	
Less: 2012 Base DSM Forecast	-190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
10 Reserves		691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876
11 System Surplus	6-9-10	9	270	171	69	214	113	13	267	164	61	316	214	112	9	263	161	59	12
Less: Brandon Unit 5																			
Exportable Surplus	11+12	9	270	171	69	214	113	13	267	164	61	316	214	112	9	263	161	59	12

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

All Gas

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
Notigi																			
Manasan																			
Early Morning																			
First Rapids																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	592										
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271				
Proposed Imports			781	936	936	936	936	936	936	936	936	936	936	936	155				
Hydro Adjustment	340	340	373	784	844	844	844	844	844	844	844	844	844	844	139				
Market Purchases	363	363	338	583	493	493	493	493	493	493	493	493	493	2 617	3 043	3 068	3 068	3 068	
Existing Wind	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses						239	239	239	239	239	239	239	239	239	239	239	239	239	
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	30 055	29 315	29 176	29 191	29 181	29 181	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	31 922	31 922	31 912	31 172	31 033	31 048	32 895	32 895
Manitoba Domestic Load																			
2012 Base Load Forecast	24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511	
Construction Power - Hydro															10	20	30	30	35
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	24 899	25 561	25 800	26 037	26 241	26 619	27 033	27 276	27 707	28 119	28 540	28 974	29 419	29 860	30 293	30 758	31 233	31 714	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	249	145	145	145	145	
Proposed Exports				162	162	162	162	162	162	162	162	162	162						
Less: Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61					
9 Total Net Exports	3 202	3 156	3 156	1 968	1 804	188	145	145	145	145									
10 Total Energy Demand	8+9	28 101	28 717	28 956	28 005	28 045	28 423	28 837	29 080	29 511	29 923	30 344	30 778	31 223	30 048	30 438	30 903	31 378	31 859
11 System Surplus	7-10	1 888	1 536	1 320	2 672	2 513	2 089	1 607	574	152	1 578	1 144	689	1 124	595	145	1 517	1 036	
Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 592											
Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61					
Exportable Surplus	11+12+13	986	725	509	1 552	1 491	1 332	908	645	204	1 208	774	319	1 063	595	145	1 517	1 036	

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

All Gas

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
Notigi																			
Manasan																			
Early Morning																			
First Rapids																			
1 Total New Hydro																			
New Thermal																			
SCGT	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	
CCGT	2 706	2 706	2 706	2 706	2 706	2 706	2 706	5 412	5 412	5 412	8 118	8 118	8 118	8 118	10 824	10 824	10 824	10 824	
2 Total New Thermal	3 714	6 420	9 126	9 126	9 126	11 832	11 832	11 832	11 832	14 538	14 538	14 538	14 538						
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 New Wind																			
5 Total New Power Resources	1+2+3+4	3 714	6 420	9 126	9 126	9 126	11 832	11 832	11 832	11 832	14 538	14 538	14 538	14 538					
Base Supply Power Resources																			
Existing Hydro	21780	21780	21 770	21 760	21760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	
6 Total Base Supply Power Resources		29 231	29 321	29 311	29 301	29 301	29 291	29 281	29 281	29 271	29 271	29 261	29 251	29 251	29 241	29 231	29 231	29 221	29 211
7 Total Power Resources	5+6	32 945	35 741	35 731	35 721	35 721	35 711	35 701	38 407	38 397	38 397	41 093	41 083	41 083	41 073	43 769	43 769	43 759	43 749
Manitoba Domestic Load																			
2012 Base Load Forecast	32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
Construction Power - Hydro	30	10																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load		32 181	32 632	33 103	33 597	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397
Contracted Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports		145																	
10 Total Energy Demand	8+9	32 326	32 777	33 248	33 742	34 232	34 718	35 201	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus	7-10	619	2 964	2 483	1 979	1 489	993	500	2 720	2 222	1 735	3 945	3 453	2 967	2 471	4 682	4 197	3 703	3 207
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	619	2 964	2 483	1 979														

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation

NFAT 2012 Reference

Wind/Gas

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30		
Power Resources																				
New Power Resources																				
New Hydro																				
Conawapa																				
Keeyask																				
1 Total New Hydro																				
New Thermal																				
SCGT															490	490	490	735	735	
CCGT																				
2 Total New Thermal															490	490	490	735	735	
New Imports																				
Contracted																				
Proposed																				
3 Total New Imports																				
4 Total New Power Resources	1+2+3														490	490	490	735	735	
Base Supply Power Resources																				
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																				
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105						
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																				
Bipole III Reduced Losses							90	90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679											
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 169	6 169	6 169	6 414	6 414						
Peak Demand																				
2012 Base Load Forecast	4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863		
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191		
7 Manitoba Net Load	4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672		
Contracted Exports	605	605	605	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358		
Proposed Exports																				
8 Total Exports	605	605	605	358																
9 Total Peak Demand	7+8	5 084	5 178	5 224	5 019	5 057	5 121	5 190	5 240	5 313	5 385	5 458	5 537	5 618	5 339	5 417	5 500	5 586	5 672	
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681	
11 System Surplus	6-9-10	686	583	567	721	678	697	619	458	376	296	214	126	35	189	102	9	158	61	
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	
Exportable Surplus	11+12	581	478	462	616	573	592	514	458	376	296	214	126	35	189	102	9	158	61	

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation

NFAT 2012 Reference

Wind/Gas

Fiscal Year		2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT		735	980	980	1 225	1 225	1 225	1 470	1 470	1 715	1 715	1 960	1 960	1 960	2 205	2 205	2 450	2 450	2 505
CCGT																			
2 Total New Thermal		735	980	980	1 225	1 225	1 225	1 470	1 470	1 715	1 715	1 960	1 960	1 960	2 205	2 205	2 450	2 450	2 505
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	735	980	980	1 225	1 225	1 225	1 470	1 470	1 715	1 715	1 960	1 960	1 960	2 205	2 205	2 450	2 450	2 505
Base Supply Power Resources																			
Existing Hydro		5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas		132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
Brandon Units 6-7 SCGT		280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild		43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
Bipole III Reduced Losses		90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
5 Total Base Supply Power Resources		5 722																	
6 Total Power Resources	4+5	6 457	6 702	6 702	6 947	6 947	6 947	7 192	7 192	7 437	7 437	7 682	7 682	7 682	7 927	7 927	8 172	8 172	8 227
Peak Demand																			
2012 Base Load Forecast		5 947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378
Less: 2012 Base DSM Forecast		- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81
7 Manitoba Net Load		5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
10 Reserves		691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876
11 System Surplus	6-9-10	9	158	59	202	102	1	146	43	185	82	225	123	21	163	60	203	101	54
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	9	158	59	202	102	1	146	43	185	82	225	123	21	163	60	203	101	54

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

Wind/Gas

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	592								
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271			
Proposed Imports			781	936	936	936	936	936	936	936	936	936	936	936	936	155			
Hydro Adjustment	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	139			
Market Purchases	363	363	338	583	493	493	493	493	493	493	493	493	493	493	2 617	3 043	3 068	3 068	
Existing Wind	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses						239	239	239	239	239	239	239	239	239	239	239	239	239	
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	30 055	29 315	29 176	29 191	29 181	29 181	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 491	30 917	31 334	30 594	30 455	32 540	32 743	32 956
Manitoba Domestic Load																			
2012 Base Load Forecast	24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511	
Construction Power - Hydro															10	20	30	30	
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	24 899	25 561	25 800	26 037	26 241	26 619	27 033	27 276	27 707	28 119	28 540	28 974	29 419	29 860	30 293	30 758	31 233	31 714	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	249	145	145	145	
Proposed Exports				162	162	162	162	162	162	162	162	162	162	162	162				
Less: Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
9 Total Net Exports	3 202	3 156	3 156	1 968	1 804	188	145	145	145										
10 Total Energy Demand	8+9	28 101	28 717	28 956	28 005	28 045	28 423	28 837	29 080	29 511	29 923	30 344	30 778	31 223	30 048	30 438	30 903	31 378	31 859
11 System Surplus	7-10	1 888	1 536	1 320	2 672	2 672	2 513	2 089	1 607	574	152	147	139	111	546	17	1 637	1 365	1 097
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592										
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61				
Exportable Surplus	11+12+13	986	725	509	1 552	1 491	1 332	908	645	204					485	17	1 637	1 365	1 097

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

Wind/Gas

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT	1 857	1 857	1 857	1 857	3 714	3 714	3 714	3 714	3 714	3 714	3 714	5 571	5 571	5 571	5 571	5 571	5 571	5 997	
CCGT																			
2 Total New Thermal	1 857	1 857	1 857	1 857	3 714	5 571	5 997												
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind	2 131	2 344	2 557	2 770	2 983	3 197	3 410	3 623	3 836	4 049	4 262	4 475	4 688	4 901	5 114	5 328	5 541	5 754	
5 Total New Power Resources	1+2+3+4	3 988	4 201	4 414	4 627	6 697	6 911	7 124	7 337	7 550	7 763	7 976	10 046	10 259	10 472	10 685	10 899	11 112	11 751
Base Supply Power Resources																			
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	
6 Total Base Supply Power Resources	29 231	29 321	29 311	29 301	29 301	29 291	29 281	29 281	29 271	29 271	29 261	29 251	29 251	29 241	29 231	29 231	29 221	29 211	
7 Total Power Resources	5+6	33 219	33 522	33 725	33 928	35 998	36 202	36 405	36 618	36 821	37 034	37 237	39 297	39 510	39 713	39 916	40 130	40 333	40 962
Manitoba Domestic Load																			
2012 Base Load Forecast	32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
Construction Power - Hydro	30	10																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	32 181	32 632	33 103	33 597	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397	
Contracted Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
10 Total Energy Demand	8+9	32 326	32 777	33 248	33 742	34 232	34 718	35 201	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus	7-10	893	745	477	186	1 766	1 484	1 204	931	646	372	89	1 667	1 394	1 111	829	558	277	420
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	893	745	477	186	1 766	1 484	1 204	931	646	372	89	1 667	1 394	1 111	829	558	277	420

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
K22/Gas**

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																	875	
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 273	6 273	5 668	5 668	5 668	5 668					
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 284	6 284	6 374	6 723	6 903	6 298	6 298	6 298	6 543	
Peak Demand																			
2012 Base Load Forecast	4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672	
Contracted Exports	605	605	605	358	358	358	358	358	358	358	358	358	468	468	110	110			
Proposed Exports																			
8 Total Exports	605	605	605	358	468	468	110	110											
9 Total Peak Demand	7+8	5 084	5 178	5 224	5 019	5 057	5 121	5 190	5 240	5 313	5 385	5 458	5 647	5 728	5 449	5 527	5 500	5 586	5 672
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681
11 System Surplus	6-9-10	686	583	567	721	678	697	619	458	376	296	304	455	544	208	121	138	42	190
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105									
Exportable Surplus	11+12	581	478	462	616	573	592	514	458	376	296	304	455	544	208	121	138	42	190

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
K22/Gas**

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT	245	245	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	
CCGT						357	357	357	714	714	714	1 071	1 071	1 071	1 071	1 428	1 428	1 428	
2 Total New Thermal	245	245	490	490	847	847	847	847	1 204	1 204	1 204	1 561	1 561	1 561	1 561	1 918	1 918	1 918	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	875	875	1 120	1 120	1 477	1 477	1 477	1 834	1 834	1 834	2 191	2 191	2 191	2 191	2 548	2 548	2 548	
Base Supply Power Resources																			
Existing Hydro	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	
5 Total Base Supply Power Resources	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	
6 Total Power Resources	4+5	6 586	6 586	6 831	6 831	7 188	7 188	7 188	7 545	7 545	7 545	7 902	7 902	7 902	7 902	8 259	8 259	8 259	
Peak Demand																			
2012 Base Load Forecast	5 947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378	
Less: 2012 Base DSM Forecast	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
Contracted Exports																			
Proposed Exports																			
8 Total Exports	7+8	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
9 Total Peak Demand	7+8	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
10 Reserves	691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876	
11 System Surplus	6-9-10	138	42	188	86	343	242	142	39	293	190	88	343	241	138	35	290	188	86
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	138	42	188	86	343	242	142	39	293	190	88	343	241	138	35	290	188	86

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K22/Gas

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
493																			
2 Total New Thermal																			
493																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	592								
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271			
Proposed Imports					781	936	936	936	936	936	936	936	936	936	936	155			
Hydro Adjustment	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	139			
Market Purchases	363	363	338	583	493	493	493	493	493	493	493	493	493	493	2 641	3 068	3 068	3 068	
Existing Wind	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							239	239	239	239	239	239	239	243	243	243	243	243	
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 069	30 059	29 343	29 205	29 195	29 185	29 185	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 558	33 043	33 062	32 346	32 208	32 198	32 188	32 188
Manitoba Domestic Load																			
2012 Base Load Forecast	24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511	
Construction Power - Hydro						10	25	50	50	70	85	50	25		10	20	30	30	
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	24 899	25 561	25 800	26 037	26 251	26 644	27 083	27 326	27 777	28 204	28 590	28 999	29 419	29 860	30 293	30 758	31 233	31 714	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 427	2 510	747	643	228	145	
Proposed Exports					162	162	162	162	162	162	162	162	162	162	162				
Less: Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
9 Total Net Exports	3 202	3 156	3 156	1 968	1 804	2 219	2 302	686	643	228	145	145							
10 Total Energy Demand	8+9	28 101	28 717	28 956	28 005	28 055	28 448	28 887	29 130	29 581	30 008	30 394	31 218	31 721	30 546	30 936	30 986	31 378	31 859
11 System Surplus	7-10	1 888	1 536	1 320	2 672	2 662	2 488	2 039	1 557	504	67	164	1 825	1 341	1 800	1 272	1 212	810	329
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592										
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
Exportable Surplus	11+12+13	986	725	509	1 552	1 481	1 307	858	595	134			1 455	971	1 739	1 272	1 212	810	329

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation NFAT 2012 Reference K22/Gas

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
New Thermal																			
SCGT	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	
CCGT						2 706	2 706	2 706	2 706	5 412	5 412	5 412	8 118	8 118	8 118	10 824	10 824	10 824	
2 Total New Thermal	1 857	1 857	1 857	1 857	4 563	4 563	4 563	4 563	7 269	7 269	7 269	9 975	9 975	9 975	9 975	12 681	12 681	12 681	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 New Wind																			
5 Total New Power Resources	1+2+3+4	4 860	4 860	4 860	4 860	7 566	7 566	7 566	10 272	10 272	10 272	12 978	12 978	12 978	12 978	15 684	15 684	15 684	
Base Supply Power Resources																			
Existing Hydro		21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 680	21 670		
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases		3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind		777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild		60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses		243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	
6 Total Base Supply Power Resources		29 235	29 325	29 315	29 305	29 305	29 295	29 285	29 285	29 275	29 275	29 265	29 255	29 255	29 245	29 235	29 225	29 215	
7 Total Power Resources	5+6	34 095	34 185	34 175	34 165	36 871	36 861	36 851	36 851	39 547	39 547	39 537	42 233	42 233	42 223	42 213	44 919	44 909	44 899
Manitoba Domestic Load																			
2012 Base Load Forecast		32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746
Construction Power - Hydro		30	10																
Less: 2012 Base DSM Forecast		- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349
8 Manitoba Net Load		32 181	32 632	33 103	33 597	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397
Contracted Exports		145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports		145																	
10 Total Energy Demand	8+9	32 326	32 777	33 248	33 742	34 232	34 718	35 201	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus	7-10	1 769	1 408	927	423	2 639	2 143	1 650	1 164	3 372	2 885	2 389	4 603	4 117	3 621	3 126	5 347	4 853	4 357
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	1 769	1 408	927	423	2 639	2 143	1 650	1 164	3 372	2 885	2 389	4 603	4 117	3 621	3 126	5 347	4 853	4 357

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
K22/C29

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																		520	
Keeyask																		630	
1 Total New Hydro																		1 150	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																	1 150	
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 273	6 273	5 668	5 668	5 668	5 668					
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 284	6 284	6 374	6 723	6 903	6 298	6 298	6 298	6 818	
Peak Demand																			
2012 Base Load Forecast	4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672	
Contracted Exports	605	605	605	358	358	358	358	358	358	358	358	358	468	468	110	110			
Proposed Exports																			
8 Total Exports	605	605	605	358	468	468	110	110											
9 Total Peak Demand	7+8	5 084	5 178	5 224	5 019	5 057	5 121	5 190	5 240	5 313	5 385	5 458	5 647	5 728	5 449	5 527	5 500	5 586	5 672
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681
11 System Surplus	6-9-10	686	583	567	721	678	697	619	458	376	296	304	455	544	208	121	138	42	465
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105									
Exportable Surplus	11+12	581	478	462	616	573	592	514	458	376	296	304	455	544	208	121	138	42	465

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
K22/C29

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	1 040	1300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	1 670	1 930																	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1670	1 930	2 175	2 175	2 175	2 175	2 420	2 420	2 665	2 665								
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	5177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
5 Total Base Supply Power Resources		5 650																	
6 Total Power Resources	4+5	7 320	7 580	7 825	7 825	7 825	7 825	8 070	8 070	8 315	8 315								
Peak Demand																			
2012 Base Load Forecast																			
Less: 2012 Base DSM Forecast																			
7 Manitoba Net Load		5947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
10 Reserves																			
11 System Surplus	6-9-10	691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876
12 Less: Brandon Unit 5		872	1 036	937	835	735	634	534	431	328	225	368	266	164	61	203	101	244	142
Exportable Surplus	11+12	872	1 036	937	835	735	634	534	431	328	225	368	266	164	61	203	101	244	142

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K22/C29

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																		2 198	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																	5 201	
Base Supply Power Resources																			
Existing Hydro	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	592								
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271			
Proposed Imports					781	936	936	936	936	936	936	936	936	936	936	155			
Hydro Adjustment	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	139			
Market Purchases	363	363	338	583	493	493	493	493	493	493	493	493	493	493	2 641	3 068	3 068	3 068	
Existing Wind	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							239	239	239	239	239	239	239	239	243	243	243	243	
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 069	30 059	29 343	29 205	29 195	29 185	29 185	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 558	33 043	33 062	32 346	32 208	32 198	32 188	34 386
Manitoba Domestic Load																			
2012 Base Load Forecast	24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511	
Construction Power - Hydro						10	25	50	50	70	95	65	45	30	60	75	110	130	125
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	24 899	25 561	25 800	26 037	26 251	26 644	27 083	27 326	27 777	28 214	28 605	29 019	29 449	29 910	30 348	30 838	31 333	31 804	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 427	2 510	747	643	228	145
Proposed Exports					162	162	162	162	162	162	162	162	162	162	162				
Less: Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
9 Total Net Exports	3 202	3 156	3 156	1 968	1 804	2 219	2 302	686	643	228	145	145							
10 Total Energy Demand	8+9	28 101	28 717	28 956	28 005	28 055	28 448	28 887	29 130	29 581	30 018	30 409	31 238	31 751	30 596	30 991	31 066	31 478	31 949
11 System Surplus	7-10	1 888	1 536	1 320	2 672	2 662	2 488	2 039	1 557	504	57	149	1 805	1 311	1 750	1 217	1 132	710	2 437
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592										
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
Exportable Surplus	11+12+13	986	725	509	1 552	1 481	1 307	858	595	134			1 435	941	1 689	1 217	1 132	710	2 437

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K22/C29

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																		5 571	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4	7 653	9 510	9 510	9 510	9 510	11 367	11 367	11 367	13 224									
Base Supply Power Resources																			
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
6 Total Base Supply Power Resources		29 143	29 233	29 223	29 213	29 213	29 203	29 193	29 193	29 183	29 183	29 173	29 163	29 163	29 153	29 143	29 143	29 133	29 123
7 Total Power Resources	5+6	36 796	36 886	36 876	36 866	36 866	36 856	36 846	36 846	36 836	36 836	38 683	38 673	38 673	38 663	40 510	40 510	40 500	42 347
Manitoba Domestic Load																			
2012 Base Load Forecast	32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
Construction Power - Hydro	60	15																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load		32 211	32 637	33 103	33 597	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397
Contracted Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports		145																	
10 Total Energy Demand	8+9	32 356	32 782	33 248	33 742	34 232	34 718	35 201	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus	7-10	4 440	4 104	3 628	3 124	2 634	2 138	1 645	1 159	661	174	1 535	1 043	557	61	1 423	938	444	1 805
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	4 440	4 104	3 628	3 124	2 634	2 138	1 645	1 159	661	174	1 535	1 043	557	61	1 423	938	444	1 805

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation

NFAT 2012 Reference

SCGT/C26

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679	5 679	5 642	5 642							
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 284	6 284	6 529	6 529	5 980	6 444	6 927	7 187	7 187	
Peak Demand																			
2012 Base Load Forecast	4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672	
Contracted Exports	605	605	605	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	
Proposed Exports																			
8 Total Exports	605	605	605	358															
9 Total Peak Demand	7+8	5 084	5 178	5 224	5 019	5 057	5 121	5 190	5 240	5 313	5 385	5 458	5 537	5 618	5 339	5 417	5 500	5 586	5 672
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681
11 System Surplus	6-9-10	686	583	567	721	678	697	619	458	376	296	459	371	280		377	767	931	834
Less: Brandon Unit 5	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
Exportable Surplus	11+12	581	478	462	616	573	592	514	458	376	296	459	371	280		377	767	931	834

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System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference SCGT/C26																			
Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask																			
1 Total New Hydro	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
New Thermal																			
SCGT	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	
CCGT																			
2 Total New Thermal	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1 545	1 790	1 790	1 790	2 035	2 035	2 280	2 280	2 525	2 525	2 525							
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Selkirk Gas																			
Brandon Units 6-7 SCGT	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild																			
Bipole III Reduced Losses	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
5 Total Base Supply Power Resources		5 685																	
6 Total Power Resources	4+5	7 230	7 475	7 475	7 475	7 720	7 720	7 965	7 965	8 210	8 210	8 210							
Peak Demand																			
2012 Base Load Forecast																			
Less: 2012 Base DSM Forecast	5 947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378	
7 Manitoba Net Load	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
8 Total Exports																			
9 Total Peak Demand	7+8	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
10 Reserves																			
11 System Surplus	6-9-10	691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876
12 Less: Brandon Unit 5		782	686	587	485	385	284	184	81	223	120	18	161	59	201	98	241	139	37
Exportable Surplus	11+12	782	686	587	485	385	284	184	81	223	120	18	161	59	201	98	241	139	37

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System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

SCGT/C26

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	592								
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271			
Proposed Imports					781	936	936	936	936	936	936	936	936	936	936	155			
Hydro Adjustment	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	139			
Market Purchases	363	363	338	583	493	493	493	493	493	493	493	493	493	493	2 627	3 052	3 068	3 068	
Existing Wind	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							239	239	239	239	239	239	239	239	239	239	212	212	
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	29 325	29 185	29 164	29 154	29 154		
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	31 922	31 922	31 912	31 182	33 240	35 671	35 661	35 661
Manitoba Domestic Load																			
2012 Base Load Forecast	24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511	
Construction Power - Hydro								10	15	20	30	50	55	80	110	110	60	35	
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	24 899	25 561	25 800	26 037	26 241	26 619	27 043	27 291	27 727	28 149	28 590	29 029	29 499	29 960	30 383	30 788	31 238	31 714	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	249	145	145	145	
Proposed Exports					162	162	162	162	162	162	162	162	162	162					
Less: Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
9 Total Net Exports	3 202	3 156	3 156	1 968	1 804	188	145	145	145										
10 Total Energy Demand	8+9	28 101	28 717	28 956	28 005	28 045	28 423	28 847	29 095	29 531	29 953	30 394	30 833	31 303	30 148	30 528	30 933	31 383	31 859
11 System Surplus	7-10	1 888	1 536	1 320	2 672	2 672	2 513	2 079	1 592	554	122	1 528	1 089	609	1 034	2 712	4 738	4 278	3 802
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592										
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
Exportable Surplus	11+12+13	986	725	509	1 552	1 491	1 332	898	630	184		1 158	719	239	973	2 712	4 738	4 278	3 802

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System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

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Fiscal Year		2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa		4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650
Keeyask																			
1 Total New Hydro		4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650
New Thermal																			
SCGT		1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	3 714	3 714	3 714	5 571	5 571	5 571	7 428	7 428	7 428	7 428
CCGT																			
2 Total New Thermal		1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	3 714	3 714	3 714	5 571	5 571	5 571	7 428	7 428	7 428	7 428
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4	6 507	6 507	6 507	6 507	6 507	6 507	6 507	6 507	8 364	8 364	8 364	10 221	10 221	10 221	10 221	12 078	12 078	12 078
Base Supply Power Resources																			
Existing Hydro		21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670
Existing Thermal																			
Brandon Coal - Unit 5		953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953
Selkirk Gas		2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases		3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068
Existing Wind		777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777
Pointe du Bois Rebuild		60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
Bipole III Reduced Losses		212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212
6 Total Base Supply Power Resources		29 204	29 294	29 284	29 274	29 274	29 264	29 254	29 254	29 244	29 244	29 234	29 224	29 224	29 214	29 204	29 204	29 194	29 184
7 Total Power Resources	5+6	35 711	35 801	35 791	35 781	35 781	35 771	35 761	35 761	37 608	37 608	37 598	39 445	39 445	39 435	39 425	41 282	41 272	41 262
Manitoba Domestic Load																			
2012 Base Load Forecast		32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746
Construction Power - Hydro		30	10																
Less: 2012 Base DSM Forecast		- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349
8 Manitoba Net Load		32 181	32 632	33 103	33 597	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397
Contracted Exports		145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports		145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145
10 Total Energy Demand	8+9	32 326	32 777	33 248	33 742	34 232	34 718	35 201	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus	7-10	3 385	3 024	2 543	2 039	1 549	1 053	560	74	1 433	946	450	1 815	1 329	833	338	1 710	1 216	720
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	3 385	3 024	2 543	2 039</b														

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System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference
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Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679	5 679	5 642	5 642							
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 284	6 284	6 641	6 641	6 036	6 556	7 039	7 299	7 299	
Peak Demand																			
2012 Base Load Forecast	4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672	
Contracted Exports	605	605	605	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	
Proposed Exports																			
8 Total Exports	605	605	605	358															
9 Total Peak Demand	7+8	5 084	5 178	5 224	5 019	5 057	5 121	5 190	5 240	5 313	5 385	5 458	5 537	5 618	5 339	5 417	5 500	5 586	5 672
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681
11 System Surplus	6-9-10	686	583	567	721	678	697	619	458	376	296	571	483	392	56	489	879	1 043	946
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
Exportable Surplus	11+12	581	478	462	616	573	592	514	458	376	296	571	483	392	56	489	879	1 043	946

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System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference CCGT/C26																			
Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask																			
1 Total New Hydro	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
New Thermal																			
SCGT																			
CCGT	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	
2 Total New Thermal	357	357	357	357	357	357	357	357	357	357	602	602	847	847	1 092	1 092	1 092	1 337	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1 657	1 902	1 902	2 147	2 147	2 392	2 392	2 392	2 637									
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Selkirk Gas																			
Brandon Units 6-7 SCGT	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild																			
Bipole III Reduced Losses	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
5 Total Base Supply Power Resources		5 685																	
6 Total Power Resources	4+5	7 342	7 587	7 587	7 832	7 832	8 077	8 077	8 077	8 322									
Peak Demand																			
2012 Base Load Forecast																			
Less: 2012 Base DSM Forecast	5 947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378	
7 Manitoba Net Load	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
10 Reserves																			
11 System Surplus	6-9-10	691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876
12 Less: Brandon Unit 5		894	798	699	597	497	396	296	193	90	232	130	28	171	68	210	108	6	149
Exportable Surplus	11+12	894	798	699	597	497	396	296	193	90	232	130	28	171	68	210	108	6	149

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System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

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Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	592								
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271			
Proposed Imports					781	936	936	936	936	936	936	936	936	936	936	155			
Hydro Adjustment	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	139			
Market Purchases	363	363	338	583	493	493	493	493	493	493	493	493	493	493	2 627	3 052	3 068	3 068	
Existing Wind	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							239	239	239	239	239	239	239	239	239	239	212	212	
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	30 055	29 325	29 185	29 164	29 154	29 154	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	32 771	32 771	32 761	32 031	34 089	36 520	36 510	36 510
Manitoba Domestic Load																			
2012 Base Load Forecast	24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511	
Construction Power - Hydro								10	15	20	30	50	55	80	110	110	60	35	
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	24 899	25 561	25 800	26 037	26 241	26 619	27 043	27 291	27 727	28 149	28 590	29 029	29 499	29 960	30 383	30 788	31 238	31 714	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	249	145	145	145	
Proposed Exports					162	162	162	162	162	162	162	162	162	162					
Less: Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
9 Total Net Exports	3 202	3 156	3 156	1 968	1 804	188	145	145	145										
10 Total Energy Demand	8+9	28 101	28 717	28 956	28 005	28 045	28 423	28 847	29 095	29 531	29 953	30 394	30 833	31 303	30 148	30 528	30 933	31 383	31 859
11 System Surplus	7-10	1 888	1 536	1 320	2 672	2 672	2 513	2 079	1 592	554	122	2 377	1 938	1 458	1 883	3 561	5 587	5 127	4 651
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592										
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
Exportable Surplus	11+12+13	986	725	509	1 552	1 491	1 332	898	630	184		2 007	1 568	1 088	1 822	3 561	5 587	5 127	4 651

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

CCGT/C26

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask																			
1 Total New Hydro	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
New Thermal																			
SCGT																			
CCGT	2 706	2 706	2 706	2 706	2 706	2 706	2 706	2 706	2 706	2 706	2 706	2 706	2 706	2 706	2 706	2 706	2 706	5 571	
2 Total New Thermal	2 706	2 706	2 706	2 706	2 706	2 706	2 706	2 706	2 706	4 563	4 563	4 563	4 563	6 420	6 420	6 420	6 420	8 277	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4	7 356	9 213	9 213	9 213	9 213	11 070	11 070	11 070	11 070	12 927								
Base Supply Power Resources																			
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	
6 Total Base Supply Power Resources	29 204	29 294	29 284	29 274	29 274	29 264	29 254	29 254	29 244	29 244	29 234	29 224	29 224	29 214	29 204	29 204	29 194	29 184	
7 Total Power Resources	5+6	36 560	36 650	36 640	36 630	36 630	36 620	36 610	36 610	36 600	38 457	38 447	38 437	38 437	40 284	40 274	40 264	42 111	
Manitoba Domestic Load																			
2012 Base Load Forecast	32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
Construction Power - Hydro	30	10																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	32 181	32 632	33 103	33 597	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397	
Contracted Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
10 Total Energy Demand	8+9	32 326	32 777	33 248	33 742	34 232	34 718	35 201	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus	7-10	4 234	3 873	3 392	2 888	2 398	1 902	1 409	923	425	1 795	1 299	807	321	1 682	1 187	702	208	1 569
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	4 234	3 873	3 392	2 888	2 398	1 902	1 409	923	425	1 795	1 299	807	321	1 682	1 187	702	208	1 569

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Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation

NFAT 2012 Reference

Wind/C26

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679	5 679	5 642	5 642							
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 980	6 199	6 682	6 942						
Peak Demand																			
2012 Base Load Forecast	4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672	
Contracted Exports	605	605	605	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	
Proposed Exports																			
8 Total Exports	605	605	605	358															
9 Total Peak Demand	7+8	5 084	5 178	5 224	5 019	5 057	5 121	5 190	5 240	5 313	5 385	5 458	5 537	5 618	5 339	5 417	5 500	5 586	5 672
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681
11 System Surplus	6-9-10	686	583	567	721	678	697	619	458	376	296	214	126	35		132	522	686	589
Less: Brandon Unit 5	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
Exportable Surplus	11+12	581	478	462	616	573	592	514	458	376	296	214	126	35		132	522	686	589

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference																			
Fiscal Year		2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa		1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask																			
1 Total New Hydro		1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
New Thermal																			
SCGT										245	245	490	490	735	735	980	980	1 225	1 225
CCGT																			
2 Total New Thermal										245	245	490	490	735	735	980	980	1 225	1 225
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1 300	1 545	1 545	1 790	1 790	1 790	2 035	2 035	2 280	2 280	2 525	2 525						
Base Supply Power Resources																			
Existing Hydro		5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas		132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT		280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild		43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses		53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	
5 Total Base Supply Power Resources		5 685																	
6 Total Power Resources	4+5	6 985	7 230	7 230	7 475	7 475	7 475	7 720	7 720	7 965	7 965	8 210	8 210						
Peak Demand																			
2012 Base Load Forecast		5 947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378
Less: 2012 Base DSM Forecast		- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81
7 Manitoba Net Load		5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
10 Reserves		691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876
11 System Surplus	6-9-10	537	441	342	240	140	39	184	81	223	120	18	161	59	201	98	241	139	37
Less: Brandon Unit 5																			
Exportable Surplus	11+12	537	441	342	240	140	39	184	81	223	120	18	161	59	201	98	241	139	37

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

Wind/C26

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271	271	
Proposed Imports					781	936	936	936	936	936	936	936	936	936	936	936	155	155	
Hydro Adjustment	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	139	139	
Market Purchases	363	363	338	583	493	493	493	493	493	493	493	493	493	493	493	2 627	3 052	3 068	
Existing Wind	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	3 068	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses																			
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	30 055	29 325	29 185	29 164	29 154	29 154	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 491	30 917	31 334	30 604	32 662	35 093	35 083	35 083
Manitoba Domestic Load																			
2012 Base Load Forecast	24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511	
Construction Power - Hydro								10	15	20	30	50	55	80	110	110	60	35	
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	24 899	25 561	25 800	26 037	26 241	26 619	27 043	27 291	27 727	28 149	28 590	29 029	29 499	29 960	30 383	30 788	31 238	31 714	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	249	145	145	145	
Proposed Exports					162	162	162	162	162	162	162	162	162	162	162	162	162	162	
Less: Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
9 Total Net Exports	3 202	3 156	3 156	1 968	1 804	188	145	145	145										
10 Total Energy Demand	8+9	28 101	28 717	28 956	28 005	28 045	28 423	28 847	29 095	29 531	29 953	30 394	30 833	31 303	30 148	30 528	30 933	31 383	31 859
11 System Surplus	7-10	1 888	1 536	1 320	2 672	2 672	2 513	2 079	1 592	554	122	97	84	31	456	2 134	4 160	3 700	3 224
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592										
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61				
Exportable Surplus	11+12+13	986	725	509	1 552	1 491	1 332	898	630	184					395	2 134	4 160	3 700	3 224

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

Wind/C26

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask																			
1 Total New Hydro	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 New Wind	1 279	1 279	1 279	1 279	1 279	1 279	1 279	1 279	1 279	1 279	1 279	1 279	1 279	1 279	1 279	1 279	1 279	1 279	
5 Total New Power Resources	1+2+3+4	5 929	7 786	7 786	7 786	7 786	9 643	9 643	9 643	11 500									
Base Supply Power Resources																			
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	
6 Total Base Supply Power Resources	29 204	29 294	29 284	29 274	29 274	29 264	29 254	29 254	29 244	29 244	29 234	29 224	29 224	29 214	29 204	29 204	29 194	29 184	
7 Total Power Resources	5+6	35 133	35 223	35 213	35 203	35 203	35 193	37 040	37 040	37 030	37 030	38 877	38 867	38 867	40 704	40 704	40 694	40 684	
Manitoba Domestic Load																			
2012 Base Load Forecast	32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
Construction Power - Hydro	30	10																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	32 181	32 632	33 103	33 597	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397	
Contracted Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
10 Total Energy Demand	8+9	32 326	32 777	33 248	33 742	34 232	34 718	35 201	35 687	36 175	36 662	37 148	37 630	38 116	38 602	39 087	39 572	40 056	40 542
11 System Surplus	7-10	2 807	2 446	1 965	1 461	971	475	1 839	1 353	855	368	1 729	1 237	751	255	1 617	1 132	638	142
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	2 807	2 446	1 965	1 461	971	475	1 839	1 353	855	368	1 729	1 237	751	255	1 617	1 132	638	142

4. Manitoba Hydro Supply and Demand Tables

NFAT 2012 Sensitivities

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference**

No New Resources – 90th Percentile Load

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679	5 679	5 679	5 679	5 679						
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679	5 679	5 679	5 679	5 679					
Peak Demand																			
2012 90th Percentile Load Forecast	4 570	4 733	4 838	4 933	5 020	5 128	5 242	5 333	5 445	5 553	5 662	5 771	5 880	5 987	6 093	6 200	6 307	6 414	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 558	4 697	4 780	4 856	4 925	5 017	5 115	5 191	5 291	5 388	5 486	5 590	5 695	5 798	5 899	6 005	6 114	6 223	
Contracted Exports	605	605	605	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	
Proposed Exports																			
8 Total Exports	605	605	605	358	358	358													
9 Total Peak Demand	7+8	5 163	5 302	5 385	5 214	5 283	5 375	5 473	5 549	5 649	5 746	5 844	5 948	6 053	5 798	5 899	6 005	6 114	6 223
10 Reserves	473	498	527	583	591	602	614	623	635	647	658	671	683	696	708	721	734	747	
11 System Surplus/(Deficit)	6-9-10	597	444	387	502	425	412	302	112	(109)	(218)	(335)	(452)	(815)	(928)	(1 047)	(1 169)	(1 291)	
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105										
Exportable Surplus	11+12	492	339	282	397	320	307	197	112										

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference**

No New Resources – 90th Percentile Load

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Selkirk Gas	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	
6 Total Power Resources	4+5	5 722																	
Peak Demand																			
2012 90th Percentile Load Forecast	6 520	6 626	6 733	6 839	6 945	7 052	7 158	7 264	7 370	7 477	7 583	7 689	7 796	7 902	8 008	8 115	8 221	8 327	
Less: 2012 Base DSM Forecast	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load	6 330	6 437	6 548	6 661	6 773	6 886	6 997	7 110	7 224	7 339	7 452	7 565	7 679	7 792	7 906	8 020	8 133	8 246	
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	6 330	6 437	6 548	6 661	6 773	6 886	6 997	7 110	7 224	7 339	7 452	7 565	7 679	7 792	7 906	8 020	8 133	8 246
10 Reserves		760	773	786	799	813	826	840	853	867	881	894	908	921	935	949	962	976	990
11 System Surplus/(Deficit)	6-9-10	(1 368)	(1 488)	(1 612)	(1 738)	(1 864)	(1 990)	(2 115)	(2 241)	(2 369)	(2 498)	(2 624)	(2 751)	(2 878)	(3 005)	(3 133)	(3 260)	(3 387)	(3 514)
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12																		

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference**

No New Resources - 90th Percentile Load

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	592										
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271				
Proposed Imports			781	936	936	936	936	936	936	936	936	936	936	936	155				
Hydro Adjustment	340	340	373	784	844	844	844	844	844	844	844	844	844	844	139				
Market Purchases	363	363	338	583	493	493	493	493	493	493	493	493	493	2 641	3 068	3 068	3 068	3 068	
Existing Wind	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses						239	239	239	239	239	239	239	239	239	239	239	239	239	
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	30 055	29 339	29 201	29 191	29 181	29 181	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	29 339	29 201	29 191	29 181	29 181	
Manitoba Domestic Load																			
2012 90th Percentile Load Forecast	25 323	26 292	26 790	27 257	27 673	28 250	28 858	29 275	29 868	30 434	31 004	31 563	32 125	32 676	33 222	33 774	34 328	34 880	
Construction Power - Hydro															10	20	30	35	
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	25 261	26 119	26 519	26 901	27 237	27 741	28 275	28 632	29 175	29 694	30 222	30 758	31 305	31 845	32 377	32 938	33 508	34 083	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	249	145	145	145	145	
Proposed Exports				162	162	162	162	162	162	162	162	162	162	162					
Less: Adverse Water	- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61				
9 Total Net Exports	3 202	3 156	3 156	1 968	1 804	1 804	1 804	188	145	145	145	145							
10 Total Energy Demand	8+9	28 463	29 275	29 675	28 869	29 041	29 545	30 079	30 436	30 979	31 498	32 026	32 562	33 109	32 033	32 522	33 083	33 653	34 228
11 System Surplus/(Deficit)	7-10	1 526	978	601	1 808	1 676	1 391	847	251	(894)	(1 423)	(1 961)	(2 497)	(3 054)	(2 694)	(3 321)	(3 892)	(4 472)	(5 047)
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 592											
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61				
Exportable Surplus	11+12+13	624	167	688	495	210													

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference**

No New Resources - 90th Percentile Load

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	
6 Total Base Supply Power Resources	29 231	29 321	29 311	29 301	29 301	29 291	29 281	29 281	29 271	29 271	29 261	29 251	29 251	29 241	29 231	29 231	29 221	29 211	
7 Total Power Resources	5+6	29 231	29 321	29 311	29 301	29 301	29 291	29 281	29 281	29 271	29 271	29 261	29 251	29 251	29 241	29 231	29 231	29 221	29 211
Manitoba Domestic Load																			
2012 90th Percentile Load Forecast	35 430	35 980	36 530	37 080	37 629	38 179	38 729	39 279	39 829	40 379	40 928	41 478	42 028	42 578	43 128	43 678	44 228	44 777	
Construction Power - Hydro	30	10																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	34 644	35 187	35 751	36 337	36 918	37 497	38 072	38 651	39 231	39 811	40 388	40 962	41 541	42 119	42 697	43 274	43 851	44 428	
Contracted Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
10 Total Energy Demand	8+9	34 789	35 332	35 896	36 482	37 063	37 642	38 217	38 796	39 376	39 956	40 533	41 107	41 686	42 264	42 842	43 419	43 996	44 573
11 System Surplus/(Deficit)	7-10	(5 558)	(6 011)	(6 585)	(7 181)	(7 762)	(8 351)	(8 936)	(9 515)	(10 105)	(10 685)	(11 272)	(11 856)	(12 435)	(13 023)	(13 611)	(14 188)	(14 775)	(15 362)
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13																		

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference**

No New Resources – 10th Percentile Load Forecast

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679										
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679									
Peak Demand																			
2012 10th Percentile Load Forecast	4 411	4 485	4 515	4 544	4 568	4 619	4 677	4 714	4 773	4 830	4 890	4 949	5 010	5 070	5 129	5 190	5 251	5 313	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 399	4 449	4 457	4 467	4 473	4 508	4 550	4 572	4 619	4 665	4 714	4 768	4 825	4 881	4 935	4 995	5 058	5 122	
Contracted Exports	605	605	605	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	
Proposed Exports																			
8 Total Exports	605	605	605	358															
9 Total Peak Demand	7+8	5 004	5 054	5 062	4 825	4 831	4 866	4 908	4 930	4 977	5 023	5 072	5 126	5 183	4 881	4 935	4 995	5 058	5 122
10 Reserves	454	468	489	536	537	541	546	549	554	560	566	572	579	586	592	599	607	615	
11 System Surplus/(Deficit)	6-9-10	775	722	748	938	931	982	935	805	753	701	646	586	522	212	152	85	14	- 58
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
Exportable Surplus	11+12	670	617	643	833	826	877	830	805	753	701	646	586	522	212	152	85	14	

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2012 Reference**

No New Resources – 10th Percentile Load Forecast

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Selkirk Gas	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	5 722	
6 Total Power Resources	4+5	5 722	5 722	5 722	5 722	5 722													
Peak Demand																			
2012 10th Percentile Load Forecast	5 375	5 437	5 499	5 561	5 623	5 685	5 747	5 809	5 871	5 933	5 995	6 057	6 119	6 181	6 243	6 305	6 367	6 429	
Less: 2012 Base DSM Forecast	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load	5 185	5 248	5 314	5 383	5 451	5 519	5 586	5 655	5 725	5 795	5 864	5 933	6 002	6 071	6 141	6 210	6 279	6 348	
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	5 185	5 248	5 314	5 383	5 451	5 519	5 586	5 655	5 725	5 795	5 864	5 933	6 002	6 071	6 141	6 210	6 279	6 348
10 Reserves	622	630	638	646	654	662	670	679	687	695	704	712	720	729	737	745	754	762	
11 System Surplus/(Deficit)	6-9-10	(85)	(156)	(230)	(307)	(383)	(459)	(534)	(612)	(690)	(768)	(846)	(923)	(1 000)	(1 078)	(1 156)	(1 233)	(1 311)	(1 388)
12 Less: Brandon Unit 5																			
Exportable Surplus																			

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference**

No New Resources – 10th Percentile Load Forecast

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30																		
Power Resources																																				
New Power Resources																																				
New Hydro																																				
Conawapa																																				
Keeyask																																				
1 Total New Hydro																																				
New Thermal																																				
SCGT																																				
2 Total New Thermal																																				
New Imports																																				
Contracted																																				
3 Total New Imports																																				
4 New Wind																																				
5 Total New Power Resources	1+2+3+4																																			
Base Supply Power Resources																																				
Existing Hydro																																				
Existing Thermal																																				
Brandon Coal - Unit 5																																				
Selkirk Gas																																				
Brandon Units 6-7 SCGT																																				
Contracted Imports																																				
Proposed Imports																																				
Hydro Adjustment																																				
Market Purchases																																				
Existing Wind																																				
Pointe du Bois Rebuild																																				
Bipole III Reduced Losses																																				
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	30 055	29 116	28 968	28 995	29 023	29 061																		
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 055	29 116	28 968	28 995	29 023	29 061																		
Manitoba Domestic Load																																				
2012 10th Percentile Load Forecast																																				
Construction Power - Hydro																																				
Less: 2012 Base DSM Forecast																																				
8 Manitoba Net Load	24 537	25 003	25 080	25 174	25 244	25 496	25 792	25 919	26 239	26 543	26 859	27 189	27 533	27 875	28 210	28 578	28 957	29 344																		
Contracted Exports																																				
Proposed Exports																																				
Less: Adverse Water																																				
9 Total Net Exports	3 202	3 156	3 156	1 968	1 804	1 804	1 804	1 804	1 804	1 804	1 804	1 804	1 804	1 804	188	145	145	145																		
10 Total Energy Demand	8+9	27 739	28 159	28 236	27 142	27 048	27 300	27 596	27 723	28 043	28 347	28 663	28 993	29 337	28 063	28 355	28 723	29 102	29 489																	
11 System Surplus/(Deficit)	7-10	2 250	2 094	2 040	3 535	3 669	3 636	3 330	2 964	2 042																										

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference**

No New Resources – 10th Percentile Load Forecast

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	2 986	3 022	3 060	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	
6 Total Base Supply Power Resources	29 149	29 275	29 303	29 301	29 301	29 291	29 281	29 281	29 271	29 271	29 261	29 251	29 251	29 241	29 231	29 231	29 221	29 211	
7 Total Power Resources	5+6	29 149	29 275	29 303	29 301	29 301	29 291	29 281	29 281	29 271	29 271	29 261	29 251	29 251	29 241	29 231	29 231	29 221	29 211
Manitoba Domestic Load																			
2012 10th Percentile Load Forecast	30 505	30 870	31 235	31 600	31 966	32 331	32 696	33 062	33 427	33 792	34 157	34 523	34 888	35 253	35 619	35 984	36 349	36 715	
Construction Power - Hydro	30	10																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	29 719	30 077	30 456	30 857	31 255	31 649	32 039	32 434	32 829	33 224	33 617	34 007	34 401	34 794	35 188	35 580	35 972	36 366	
Contracted Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
10 Total Energy Demand	8+9	29 864	30 222	30 601	31 002	31 400	31 794	32 184	32 579	32 974	33 369	33 762	34 152	34 546	34 939	35 333	35 725	36 117	36 511
11 System Surplus/(Deficit)	7-10	(715)	(947)	(1 298)	(1 701)	(2 099)	(2 503)	(2 903)	(3 298)	(3 703)	(4 098)	(4 501)	(4 901)	(5 295)	(5 698)	(6 102)	(6 494)	(6 896)	(7 300)
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13																		

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K19/C25/750MW (WPS Sale & Inv) – 90 th Percentile Load																			
Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3								90	450	630	630	875	875	1 395	1 915	2 175	2 175	2 175
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses									90	90	90	79	79	79	79	79	18	18	18
5 Total Base Supply Power Resources		6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 273	6 273	6 273	6 273	5 668	5 607	5 607	5 607	5 607	
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 374	6 723	6 903	6 903	7 148	7 148	7 063	7 522	7 782	7 782	7 782
Peak Demand																			
2012 90th Percentile Load Forecast	4 570	4 733	4 838	4 933	5 020	5 128	5 242	5 333	5 445	5 553	5 662	5 771	5 880	5 987	6 093	6 200	6 307	6 414	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 558	4 697	4 780	4 856	4 925	5 017	5 115	5 191	5 291	5 388	5 486	5 590	5 695	5 798	5 899	6 005	6 114	6 223	
Contracted Exports	605	605	605	358	358	358	358	358	633	743	743	743	743	385	385	275	275	275	
Proposed Exports				119	119	119	119	119	119	119	119	119	119	220	330	330	330	330	
8 Total Exports		605	605	724	477	477	477	477	477	752	743	743	743	385	605	605	605	605	
9 Total Peak Demand	7+8	5 163	5 302	5 504	5 333	5 402	5 494	5 592	5 668	6 043	6 131	6 229	6 333	6 438	6 183	6 504	6 610	6 719	6 828
10 Reserves	473	498	527	583	591	602	614	623	635	647	658	671	683	696	708	721	734	747	
11 System Surplus	6-9-10	597	444	268	383	306	293	183	83	45	125	16	144	27	184	310	451	329	207
12 Less: Brandon Unit 5	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105										
Exportable Surplus	11+12	492	339	163	278	201	188	78	83	45	125	16	144	27	184	310	451	329	207

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K19/C25/750MW (WPS Sale & Inv) – 90 th Percentile Load																		
Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Power Resources																		
New Power Resources																		
New Hydro																		
Conawapa	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
1 Total New Hydro	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930
New Thermal																		
SCGT	245	245	490	490	735	735	735	735	735	735	980	980	1 225	1 225	1 470	1 470	1 715	1 715
CCGT																		
2 Total New Thermal	245	245	490	490	735	735	735	735	735	735	980	980	1 225	1 225	1 470	1 470	1 715	1 715
New Imports																		
Contracted																		
Proposed																		
3 Total New Imports	245	245	490	490	735	735	735	735	735	735	980	980	1 225	1 225	1 470	1 470	1 715	1 715
4 Total New Power Resources	2 175	2 175	2 420	2 420	2 665	2 910	2 910	3 155	3 155	3 400	3 400	3 645	3 645					
Base Supply Power Resources																		
Existing Hydro	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177
Existing Thermal																		
Brandon Coal - Unit 5																		
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280
Contracted Imports																		
Proposed Imports																		
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
Bipole III Reduced Losses	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
5 Total Base Supply Power Resources	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	5 650	
6 Total Power Resources	7 825	7 825	8 070	8 070	8 315	8 560	8 560	8 805	8 805	9 050	9 050	9 295	9 295					
Peak Demand																		
2012 90th Percentile Load Forecast	6 520	6 626	6 733	6 839	6 945	7 052	7 158	7 264	7 370	7 477	7 583	7 689	7 796	7 902	8 008	8 115	8 221	8 327
Less: 2012 Base DSM Forecast	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81
7 Manitoba Net Load	6 330	6 437	6 548	6 661	6 773	6 886	6 997	7 110	7 224	7 339	7 452	7 565	7 679	7 792	7 906	8 020	8 133	8 246
Contracted Exports																		
Proposed Exports																		
8 Total Exports	605	605	605	605	605	605	330											
9 Total Peak Demand	7+8	6 935	7 042	7 153	7 266	7 378	7 216	6 997	7 110	7 224	7 339	7 452	7 565	7 679	7 792	7 906	8 020	8 133
10 Reserves		760	773	786	799	813	826	840	853	867	881	894	908	921	935	949	962	976
11 System Surplus	6-9-10	130	10	131	5	124	273	478	352	224	95	214	87	205	78	195	68	186
12 Less: Brandon Unit 5																		
Exportable Surplus	11+12	130	10	131	5	124	273	478	352	224	95	214	87	205	78	195	68	186

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference

K19/C25/750MW (WPS Sale & Inv) – 90th Percentile Load

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Selkirk Gas	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Brandon Units 6-7 SCGT	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Contracted Imports	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Proposed Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271	271	
Hydro Adjustment	781	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	155	155	
Market Purchases	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	139	139	
Existing Wind	363	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	2 882	2 882	
Pointe du Bois Rebuild	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Bipole III Reduced Losses																			
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 553	30 636	30 626	30 626	30 616	29 900	28 927	28 398	28 313	28 313	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	31 180	34 455	34 752	34 742	34 742	36 589	38 071	40 292	40 283	40 272	40 272
Manitoba Domestic Load																			
2012 90th Percentile Load Forecast	25 323	26 292	26 790	27 257	27 673	28 250	28 858	29 275	29 868	30 434	31 004	31 563	32 125	32 676	33 222	33 774	34 328	34 880	
Construction Power - Hydro		10	25	50	50	80	100	70	55	50	55	80	100	100	50	35	30	35	
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	25 261	26 129	26 544	26 951	27 287	27 821	28 375	28 702	29 230	29 744	30 277	30 838	31 405	31 935	32 407	32 943	33 508	34 083	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	3 671	3 754	3 754	3 754	1 991	1 887	1 472	1 389	1 389	
Proposed Exports				448	699	699	699	699	699	252	162	162	162		829	1 410	1 493	1 493	
Less: Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61					
9 Total Net Exports	3 202	3 156	3 604	2 505	2 341	2 341	2 341	2 341	3 377	3 553	3 546	3 546	3 546	1 930	2 716	2 882	2 882	2 882	
10 Total Energy Demand	8+9	28 463	29 285	30 148	29 456	29 628	30 162	30 716	31 043	32 607	33 297	33 823	34 384	34 951	33 865	35 123	35 825	36 390	36 965
11 System Surplus	7-10	1 526	968	128	1 221	1 089	774	210	137	1 848	1 455	919	358	1 638	4 206	5 169	4 458	3 882	3 307
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 592											
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61					
Exportable Surplus	11+12+13	624	157		101					1 478	1 085	549		1 268	4 145	5 169	4 458	3 882	3 307

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K19/C25/750MW (WPS Sale & Inv) – 90th Percentile Load

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	
New Thermal																			
SCGT	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	
CCGT																			
2 Total New Thermal	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	1 857	
New Imports																			
Contracted	1 113	1 113	1 113	1 113	1 113	1 113	186												
Proposed	1 336	1 336	1 336	1 336	1 336	1 336	223												
3 Total New Imports	2 449	2 449	2 449	2 449	2 449	1 522	223												
New Wind																			
5 Total New Power Resources	11 959	11 959	11 959	11 959	11 959	11 032	9 733	9 510	9 510	11 367	11 367	11 367	13 224	13 224	13 224	13 224	15 081	15 081	
Base Supply Power Resources	1+2+3+4																		
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	2 288	2 288	2 288	2 288	2 288	3 216	3 847	3 879	3 937	3 995	4 053	4 110	4 168	4 226	4 284	4 341	4 399	4 457	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
6 Total Base Supply Power Resources	28 363	28 453	28 443	28 433	28 433	29 351	29 972	30 004	30 052	30 110	30 158	30 205	30 263	30 311	30 359	30 416	30 464	30 512	
7 Total Power Resources	5+6	40 322	40 412	40 402	40 392	40 392	40 383	39 705	39 514	39 562	41 477	41 525	41 572	43 487	43 535	43 583	43 640	45 545	45 593
Manitoba Domestic Load																			
2012 90th Percentile Load Forecast	35 430	35 980	36 530	37 080	37 629	38 179	38 729	39 279	39 829	40 379	40 928	41 478	42 028	42 578	43 128	43 678	44 228	44 777	
Construction Power - Hydro	30	10																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	34 644	35 187	35 751	36 337	36 918	37 497	38 072	38 651	39 231	39 811	40 388	40 962	41 541	42 119	42 697	43 274	43 851	44 428	
Contracted Exports	1 389	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports	1 493	1 493	1 493	1 493	1 493	1 493	249												
Less: Adverse Water																			
9 Total Net Exports	2 882	2 882	2 882	2 882	2 882	1 846	394	145											
10 Total Energy Demand	8+9	37 526	38 069	38 633	39 219	39 800	39 343	38 466	38 796	39 376	39 956	40 533	41 107	41 686	42 264	42 842	43 419	43 996	44 573
11 System Surplus	7-10	2 796	2 343	1 769	1 173	592	1 040	1 239	718	186	1 521	992	465	1 801	1 271	741	221	1 549	1 020
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	2 796	2 343	1 769	1 173	592	1 040	1 239	718	186	1 521	992	465	1 801	1 271	741	221	1 549	1 020

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System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K19/C25/750MW (WPS Sale & Inv) – 10 th Percentile Load																			
Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3								90	450	630	630	630	630	1 150	1 670	1 930	1 930	
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses									90	90	90	79	79	79	79	79	18	18	
5 Total Base Supply Power Resources		6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 273	6 273	6 273	6 273	5 668	5 607	5 607	5 607	5 607	
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 374	6 723	6 903	6 903	6 903	6 818	7 277	7 537	7 537	7 537	
Peak Demand																			
2012 10th Percentile Load Forecast	4 411	4 485	4 515	4 544	4 568	4 619	4 677	4 714	4 773	4 830	4 890	4 949	5 010	5 070	5 129	5 190	5 251	5 313	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 399	4 449	4 457	4 467	4 473	4 508	4 550	4 572	4 619	4 665	4 714	4 768	4 825	4 881	4 935	4 995	5 058	5 122	
Contracted Exports	605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	
Proposed Exports				119	119	119	119	119	119	119	119	119	119	220	330	330	330	330	
8 Total Exports		605	605	724	477	477	477	477	752	880	880	880	880	385	605	605	605	605	
9 Total Peak Demand	7+8	5 004	5 054	5 181	4 944	4 950	4 985	5 027	5 049	5 371	5 545	5 594	5 648	5 705	5 266	5 540	5 600	5 663	5 727
10 Reserves	454	468	489	536	537	541	546	549	554	560	566	572	579	586	592	599	607	615	
11 System Surplus	6-9-10	775	722	629	819	812	863	816	776	798	798	743	683	619	966	1 145	1 338	1 267	1 195
12 Less: Brandon Unit 5	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105											
Exportable Surplus	11+12	670	617	524	714	707	758	711	776	798	798	743	683	619	966	1 145	1 338	1 267	1 195

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System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K19/C25/750MW (WPS Sale & Inv) - 10 th Percentile Load																			
Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1 930																	
Base Supply Power Resources																			
Existing Hydro	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
5 Total Base Supply Power Resources		5 650																	
6 Total Power Resources	4+5	7 580																	
Peak Demand																			
2012 10th Percentile Load Forecast	5 375	5 437	5 499	5 561	5 623	5 685	5 747	5 809	5 871	5 933	5 995	6 057	6 119	6 181	6 243	6 305	6 367	6 429	
Less: 2012 Base DSM Forecast	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load	5 185	5 248	5 314	5 383	5 451	5 519	5 586	5 655	5 725	5 795	5 864	5 933	6 002	6 071	6 141	6 210	6 279	6 348	
Contracted Exports																			
Proposed Exports																			
8 Total Exports		605																	
9 Total Peak Demand	7+8	5 790	5 853	5 919	5 988	6 056	5 849	5 586	5 655	5 725	5 795	5 864	5 933	6 002	6 071	6 141	6 210	6 279	6 348
10 Reserves		622	630	638	646	654	662	670	679	687	695	704	712	720	729	737	745	754	762
11 System Surplus	6-9-10	1 168	1 097	1 023	946	870	1 069	1 324	1 246	1 168	1 090	1 012	935	858	780	702	625	547	470
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	1 168	1 097	1 023	946	870	1 069	1 324	1 246	1 168	1 090	1 012	935	858	780	702	625	547	470

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**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference**

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
K19/C25/750MW (WPS Sale & Inv) - 10th Percentile Load																			
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro									493	2 974	3 003	3 003	3 003	3 003	2 198	4 650	4 650	4 650	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4								493	3 902	4 116	4 116	4 116	4 116	6 314	9 508	10 028	10 102	10 102
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Selkirk Gas	811	811	811	811	811	811	811	811	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	953	953	953	953	953	953	953	953	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	
Proposed Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	781	781	936	936	936	936	936	936	936	936	
Hydro Adjustment	781	781	936	936	936	936	936	936	340	340	373	784	844	844	844	844	844	844	
Market Purchases	340	340	373	784	844	844	844	844	363	363	338	493	493	493	493	493	493	493	
Existing Wind	363	363	338	583	493	493	493	493	766	766	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	766	766	777	777	777	777	777	777	299	299	239	239	239	243	243	243	243	243	
Bipole III Reduced Losses	299	299	30253	30276	30677	30717	30936	30926	239	239	239	239	243	243	243	243	243	243	
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 553	30 636	30 626	30 626	30 616	29 774	28 927	28 398	28 313	28 313	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	31 180	34 455	34 752	34 742	34 742	34 732	36 088	38 435	38 426	38 415	38 415
Manitoba Domestic Load																			
2012 10th Percentile Load Forecast	24 599	25 176	25 351	25 530	25 680	26 005	26 375	26 562	26 932	27 283	27 641	27 994	28 353	28 706	29 055	29 414	29 777	30 141	
Construction Power - Hydro		10	25	50	50	80	100	70	55	50	55	80	100	100	50	35	30	35	
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	24 537	25 013	25 105	25 224	25 294	25 576	25 892	25 989	26 294	26 593	26 914	27 269	27 633	27 965	28 240	28 583	28 957	29 344	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	4 314	2 031	1 887	1 472	1 389	
Proposed Exports				448	699	699	699	699	699	252	162	162	162	162	829	1 410	1 493	1 493	
Less: Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85				
9 Total Net Exports	3 202	3 156	3 604	2 505	2 341	2 341	2 341	2 341	3 377	3 954	3 963	3 963	3 963	3 963	1 946	2 716	2 882	2 882	
10 Total Energy Demand	8+9	27 739	28 169	28 709	27 729	27 635	27 917	28 233	28 330	29 671	30 547	30 877	31 232	31 596	29 911	30 956	31 465	31 839	32 226
11 System Surplus	7-10	2 250	2 084	1 567	2 948	3 082	3 019	2 693	2 850	4 784	4 205	3 865	3 510	3 136	6 177	7 479	6 961	6 576	6 189
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 592											
13 Adverse Water		- 91		- 309	- 370	- 370	- 370												

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**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference**

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
K19/C25/750MW (WPS Sale & Inv) - 10th Percentile Load																			
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted	1 113	1 113	1 113	1 113	1 113	186													
Proposed	1 336	1 336	1 336	1 336	1 336	223													
3 Total New Imports	2 449	2 449	2 449	2 449	2 449	223													
New Wind																			
5 Total New Power Resources	1+2+3+4	10 102	9 175	7 876	7 653	7 653	7 653	7 653	7 653	7 653									
Base Supply Power Resources																			
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	2 288	2 288	2 288	2 288	2 288	3 216	3 244	3 257	3 297	3 336	3 376	3 415	3 454	3 493	3 533	3 572	3 611	3 651	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
6 Total Base Supply Power Resources	28 363	28 453	28 443	28 433	28 433	29 351	29 369	29 382	29 412	29 451	29 481	29 510	29 549	29 578	29 608	29 647	29 676	29 706	
7 Total Power Resources	5+6	38 465	38 555	38 545	38 535	38 535	38 526	37 245	37 035	37 065	37 104	37 134	37 163	37 202	37 231	37 261	37 300	37 329	37 359
Manitoba Domestic Load																			
2012 10th Percentile Load Forecast	30 505	30 870	31 235	31 600	31 966	32 331	32 696	33 062	33 427	33 792	34 157	34 523	34 888	35 253	35 619	35 984	36 349	36 715	
Construction Power - Hydro	30	10																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	29 719	30 077	30 456	30 857	31 255	31 649	32 039	32 434	32 829	33 224	33 617	34 007	34 401	34 794	35 188	35 580	35 972	36 366	
Contracted Exports	1 389	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports	1 493	1 493	1 493	1 493	1 493	1 493	249												
Less: Adverse Water																			
9 Total Net Exports	2 882	2 882	2 882	2 882	2 882	1 846	394	145	145	145	145	145	145	145	145	145	145	145	
10 Total Energy Demand	8+9	32 601	32 959	33 338	33 739	34 137	33 495	32 433	32 579	32 974	33 369	33 762	34 152	34 546	34 939	35 333	35 725	36 117	36 511
11 System Surplus	7-10	5 864	5 596	5 207	4 796	4 398	5 031	4 812	4 456	4 091	3 735	3 372	3 011 </td						

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System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K19/Gas – 90 th Percentile Load																			
Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
90	450	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							90	90	90	79	79	79	79	79	79	79	79	79	
5 Total Base Supply Power Resources		6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 273	6 273	6 273	6 273	5 668					
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 374	6 723	6 903	6 903	7 148	6 788	6 788	7 033	7 033	7 033	
Peak Demand																			
2012 90th Percentile Load Forecast	4 570	4 733	4 838	4 933	5 020	5 128	5 242	5 333	5 445	5 553	5 662	5 771	5 880	5 987	6 093	6 200	6 307	6 414	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 558	4 697	4 780	4 856	4 925	5 017	5 115	5 191	5 291	5 388	5 486	5 590	5 695	5 798	5 899	6 005	6 114	6 223	
Contracted Exports	605	605	605	358	358	358	358	358	358	468	468	468	468	468	110	110			
Proposed Exports																			
8 Total Exports		605	605	605	358	358	358	358	358	468	468	468	468	468	110	110			
9 Total Peak Demand	7+8	5 163	5 302	5 385	5 214	5 283	5 375	5 473	5 549	5 649	5 856	5 954	6 058	6 163	5 908	6 009	6 005	6 114	6 223
10 Reserves	473	498	527	583	591	602	614	623	635	647	658	671	683	696	708	721	734	747	
11 System Surplus		597	444	387	502	425	412	302	202	439	400	291	174	302	184	71	62	185	63
12 Less: Brandon Unit 5	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105										
Exportable Surplus		492	339	282	397	320	307	197	202	439	400	291	174	302	184	71	62	185	63

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K19/Gas – 90 th Percentile Load																			
Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT	980	980	980	980	980	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 470	1 470	
CCGT			357	357	357	357	357	714	714	714	1 071	1 071	1 428	1 428	1 428	1 428	1 428	1 428	
2 Total New Thermal	980	980	1 337	1 337	1 337	1 582	1 582	1 939	1 939	1 939	2 296	2 296	2 653	2 653	2 898	2 898	2 898	2 898	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1 610	1 610	1 967	1 967	1 967	2 212	2 212	2 569	2 569	2 569	2 926	2 926	2 926	3 283	3 283	3 283	3 528	3 528
Base Supply Power Resources																			
Existing Hydro	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	
5 Total Base Supply Power Resources	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	
6 Total Power Resources	4+5	7 321	7 321	7 678	7 678	7 678	7 923	7 923	8 280	8 280	8 280	8 637	8 637	8 637	8 994	8 994	9 239	9 239	
Peak Demand																			
2012 90th Percentile Load Forecast	6 520	6 626	6 733	6 839	6 945	7 052	7 158	7 264	7 370	7 477	7 583	7 689	7 796	7 902	8 008	8 115	8 221	8 327	
Less: 2012 Base DSM Forecast	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load	6 330	6 437	6 548	6 661	6 773	6 886	6 997	7 110	7 224	7 339	7 452	7 565	7 679	7 792	7 906	8 020	8 133	8 246	
8 Total Exports																			
9 Total Peak Demand	7+8	6 330	6 437	6 548	6 661	6 773	6 886	6 997	7 110	7 224	7 339	7 452	7 565	7 679	7 792	7 906	8 020	8 133	8 246
10 Reserves		760	773	786	799	813	826	840	853	867	881	894	908	921	935	949	962	976	990
11 System Surplus	6-9-10	231	111	344	218	92	211	86	317	189	60	291	164	37	267	139	12	130	3
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	231	111	344	218	92	211	86	317	189	60	291	164	37	267	139	12	130	3

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference**

K19/Gas - 90th Percentile Load

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																	6 717	
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Selkirk Gas	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Brandon Units 6-7 SCGT	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Contracted Imports	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Proposed Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	
Hydro Adjustment	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	
Market Purchases	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	844	844	
Existing Wind	363	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	493	493	
Pointe du Bois Rebuild	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Bipole III Reduced Losses																			
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 089	30 079	30 069	30 069	30 059	29 343	29 205	29 195	29 185	29 185	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	31 180	33 063	33 082	33 072	33 072	34 919	34 203	34 065	34 055	35 902	
Manitoba Domestic Load																			
2012 90th Percentile Load Forecast	25 323	26 292	26 790	27 257	27 673	28 250	28 858	29 275	29 868	30 434	31 004	31 563	32 125	32 676	33 222	33 774	34 328	34 880	
Construction Power - Hydro		10	25	50	50	70	85	50	25						10	20	30	35	
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	25 261	26 129	26 544	26 951	27 287	27 811	28 360	28 682	29 200	29 694	30 222	30 758	31 305	31 845	32 377	32 938	33 508	34 083	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 427	2 510	2 510	2 510	747	643	228	145	145	
Proposed Exports				162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	
Less: Adverse Water	- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61		
9 Total Net Exports	3 202	3 156	3 156	1 968	1 804	2 219	2 302	2 302	2 302	686	643	228	145	145					
10 Total Energy Demand	8+9	28 463	29 285	29 700	28 919	29 091	29 615	30 164	30 486	31 004	31 913	32 524	33 060	33 607	32 531	33 020	33 166	33 653	34 228
11 System Surplus	7-10	1 526	968	576	1 758	1 626	1 321	762	694	2 059	1 169	548	12	1 312	1 672	1 045	889	392	1 674
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 592											
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61		
Exportable Surplus	11+12+13	624	157	638	445	140				1 689	799	178	942	1 611	1 045	889	392	1 674	

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference**

K19/Gas - 90th Percentile Load

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
New Thermal																			
SCGT	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	
CCGT			2 706	2 706	2 706	2 706	2 706	2 706	5 412	5 412	5 412	8 118	8 118	8 118	10 824	10 824	10 824	10 824	
2 Total New Thermal	3 714	3 714	6 420	9 126	9 126	9 126	11 832	11 832	11 832	14 538									
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 New Wind																			
5 Total New Power Resources	1+2+3+4	6 717	6 717	9 423	12 129	12 129	12 129	14 835	14 835	14 835	17 541								
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases																			
Existing Wind	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Pointe du Bois Rebuild	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Bipole III Reduced Losses	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
6 Total Base Supply Power Resources		29 235	29 325	29 315	29 305	29 305	29 295	29 285	29 275	29 275	29 265	29 255	29 255	29 245	29 235	29 235	29 225	29 215	
7 Total Power Resources	5+6	35 952	36 042	38 738	38 728	38 728	38 718	38 708	41 414	41 404	41 404	44 100	44 090	44 090	46 786	46 776	46 766	46 756	
Manitoba Domestic Load																			
2012 90th Percentile Load Forecast																			
30	35 430	35 980	36 530	37 080	37 629	38 179	38 729	39 279	39 829	40 379	40 928	41 478	42 028	42 578	43 128	43 678	44 228	44 777	
Construction Power - Hydro																			
- 816		- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load		34 644	35 187	35 751	36 337	36 918	37 497	38 072	38 651	39 231	39 811	40 388	40 962	41 541	42 119	42 697	43 274	43 851	44 428
Contracted Exports																			
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports		145																	
10 Total Energy Demand	8+9	34 789	35 332	35 896	36 482	37 063	37 642	38 217	38 796	39 376	39 956	40 533	41 107	41 686	42 264	42 842	43 419	43 996	44 573
11 System Surplus	7-10	1 163	710	2 842	2 246	1 665	1 076	491	2 618	2 028	1 448	3 567	2 983	2 404	4 522	3 934	3 357	2 770	2 183
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	1 163	710	2 842	2 246	1 665	1 076	491	2 618	2 028	1 448	3 567	2 983	2 404	4 522	3 934			

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation

NFAT 2012 Reference

K28/Gas – 10th Percentile Load

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
90																			
450																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
90																			
450																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
90																			
450																			
4 Total New Power Resources	1+2+3																		
90																			
450																			
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses						90	90	90	90	90	90	90	90	90	90	90	90	79	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679	5 679	5 679	5 679	5 668						
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679	5 679	5 679	5 769	6 118					
Peak Demand																			
2012 10th Percentile Load Forecast	4 411	4 485	4 515	4 544	4 568	4 619	4 677	4 714	4 773	4 830	4 890	4 949	5 010	5 070	5 129	5 190	5 251	5 313	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 399	4 449	4 457	4 467	4 473	4 508	4 550	4 572	4 619	4 665	4 714	4 768	4 825	4 881	4 935	4 995	5 058	5 122	
Contracted Exports	605	605	605	358	358	358	358	358	358	468	468	468	468	468	110	110			
Proposed Exports																			
8 Total Exports	605	605	605	358	358	358	358	358	358	468	468	468	468	110	110				
9 Total Peak Demand	7+8	5 004	5 054	5 062	4 825	4 831	4 866	4 908	4 930	4 977	5 133	5 182	5 236	5 293	4 991	5 045	4 995	5 058	5 122
10 Reserves	454	468	489	536	537	541	546	549	554	560	566	572	579	586	592	599	607	615	
11 System Surplus	6-9-10	775	722	748	938	931	982	935	805	753	591	536	476	412	102	42	85	104	381
12 Less: Brandon Unit 5	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105										
Exportable Surplus	11+12	670	617	643	833	826	877	830	805	753	591	536	476	412	102	42	85	104	381

Date: August 16, 2013

		System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K28/Gas - 10 th Percentile Load																		
Fiscal Year		2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																				
New Power Resources																				
New Hydro																				
Conawapa																				
Keeyask		630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
1 Total New Hydro		630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
New Thermal																				
SCGT																				
CCGT																				
2 Total New Thermal																				
New Imports																				
Contracted																				
Proposed																				
3 Total New Imports																				
4 Total New Power Resources	1+2+3	630	630	630	630	630	630	630	875	875	875	875	1 120	1 120	1 120	1 365	1 365	1 365	1 420	
Base Supply Power Resources																				
Existing Hydro		5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																				
Brandon Coal - Unit 5																				
Selkirk Gas		132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT		280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																				
Proposed Imports																				
Pointe du Bois Rebuild		43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses		79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	
5 Total Base Supply Power Resources		5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	5 711	
6 Total Power Resources	4+5	6 341	6 341	6 341	6 341	6 341	6 341	6 341	6 586	6 586	6 586	6 586	6 831	6 831	6 831	7 076	7 076	7 076	7 131	
Peak Demand																				
2012 10th Percentile Load Forecast		5 375	5 437	5 499	5 561	5 623	5 685	5 747	5 809	5 871	5 933	5 995	6 057	6 119	6 181	6 243	6 305	6 367	6 429	
Less: 2012 Base DSM Forecast		- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load		5 185	5 248	5 314	5 383	5 451	5 519	5 586	5 655	5 725	5 795	5 864	5 933	6 002	6 071	6 141	6 210	6 279	6 348	
8 Total Exports																				
9 Total Peak Demand	7+8	5 185	5 248	5 314	5 383	5 451	5 519	5 586	5 655	5 725	5 795	5 864	5 933	6 002	6 071	6 141	6 210	6 279	6 348	
10 Reserves		622	630	638	646	654	662	670	679	687	695	704	712	720	729	737	745	754	762	
11 System Surplus	6-9-10	534	463	389	312	236	160	85	252	174	96	18	186	109	31	198	121	43	21	
12 Less: Brandon Unit 5																				
Exportable Surplus	11+12	534	463	389	312	236	160	85	252	174	96	18	186	109	31	198	121	43	21	

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference**

K28/Gas - 10th Percentile Load

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																	493 2 974	
Base Supply Power Resources																			
Existing Hydro	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	592										
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271			
Proposed Imports			781	936	936	936	936	936	936	936	936	936	936	936	936	155			
Hydro Adjustment	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	139			
Market Purchases	363	363	338	583	493	493	493	493	493	493	493	493	493	493	2 641	3 068	2 963	2 915	2 951
Existing Wind	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777
Pointe du Bois Rebuild																			
Bipole III Reduced Losses						239	239	239	239	239	239	239	239	239	239	239	239	239	243
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	30 055	29 339	29 201	29 086	29 028	29 068	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	29 339	29 201	29 086	29 521	32 042	
Manitoba Domestic Load																			
2012 10th Percentile Load Forecast	24 599	25 176	25 351	25 530	25 680	26 005	26 375	26 562	26 932	27 283	27 641	27 994	28 353	28 706	29 055	29 414	29 777	30 141	
Construction Power - Hydro											10	25	50	60	90	115	80	60	
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	24 537	25 003	25 080	25 174	25 244	25 496	25 792	25 919	26 239	26 543	26 869	27 214	27 583	27 925	28 280	28 663	29 007	29 369	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 427	2 510	2 510	2 510	747	643	228	145	145	
Proposed Exports				162	162	162	162	162	162	162	162	162	162						
Less: Adverse Water	- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61				
9 Total Net Exports	3 202	3 156	3 156	1 968	1 804	2 219	2 302	2 302	2 302	686	643	228	145	145					
10 Total Energy Demand	8+9	27 739	28 159	28 236	27 142	27 048	27 300	27 596	27 723	28 043	28 762	29 171	29 516	29 885	28 611	28 923	28 891	29 152	29 514
11 System Surplus	7-10	2 250	2 094	2 040	3 535	3 669	3 636	3 330	2 964	2 042	1 313	894	549	170	728	278	195	369	2 528
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 592											
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61				
Exportable Surplus	11+12+13	1 348	1 283	1 229	2 415	2 488	2 455	2 149	2 002	1 672	943	524	179	667	278	195	369	2 528	

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference**

K28/Gas - 10th Percentile Load

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 New Wind																			
5 Total New Power Resources	1+2+3+4	3 003	4 860	4 860	4 860	4 860	6 717	6 717	6 717	6 717	8 574	8 574							
Base Supply Power Resources																			
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	2 986	3 022	3 060	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	
6 Total Base Supply Power Resources		29 153	29 279	29 307	29 305	29 305	29 295	29 285	29 285	29 275	29 275	29 265	29 255	29 255	29 245	29 235	29 235	29 225	29 215
7 Total Power Resources	5+6	32 156	32 282	32 310	32 308	32 308	32 298	32 288	34 145	34 135	34 135	34 125	35 972	35 962	35 952	35 952	37 799	37 789	
Manitoba Domestic Load																			
2012 10th Percentile Load Forecast	30 505	30 870	31 235	31 600	31 966	32 331	32 696	33 062	33 427	33 792	34 157	34 523	34 888	35 253	35 619	35 984	36 349	36 715	
Construction Power - Hydro	30	10																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	29 719	30 077	30 456	30 857	31 255	31 649	32 039	32 434	32 829	33 224	33 617	34 007	34 401	34 794	35 188	35 580	35 972	36 366	
Contracted Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports		145																	
10 Total Energy Demand	8+9	29 864	30 222	30 601	31 002	31 400	31 794	32 184	32 579	32 974	33 369	33 762	34 152	34 546	34 939	35 333	35 725	36 117	36 511
11 System Surplus	7-10	2 292	2 060	1 709	1 306	908	504	104	1 566	1 161	766	363	1 820	1 426	1 023	619	227	1 682	1 278
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	2 292	2 060	1 709	1 306	908	504	104	1 566	1 161	766	363	1 820	1 426	1 023	619	227	1 682	1 278

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference All Gas – 90 th Percentile Load																			
Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses							90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679										
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 529	6 529	6 774	6 774	6 526	6 771	6 771	7 016	7 016	
Peak Demand																			
2012 90th Percentile Load Forecast	4 570	4 733	4 838	4 933	5 020	5 128	5 242	5 333	5 445	5 553	5 662	5 771	5 880	5 987	6 093	6 200	6 307	6 414	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 558	4 697	4 780	4 856	4 925	5 017	5 115	5 191	5 291	5 388	5 486	5 590	5 695	5 798	5 899	6 005	6 114	6 223	
Contracted Exports	605	605	605	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	
Proposed Exports																			
8 Total Exports	605	605	605	358															
9 Total Peak Demand	7+8	5 163	5 302	5 385	5 214	5 283	5 375	5 473	5 549	5 649	5 746	5 844	5 948	6 053	5 798	5 899	6 005	6 114	6 223
10 Reserves		473	498	527	583	591	602	614	623	635	647	658	671	683	696	708	721	734	747
11 System Surplus	6-9-10	597	444	387	502	425	412	302	112	245	136	272	155	38	32	164	45	168	46
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105										
Exportable Surplus	11+12	492	339	282	397	320	307	197	112	245	136	272	155	38	32	164	45	168	46

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference All Gas – 90 th Percentile Load																			
Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 225	1 470	1 470	
CCGT	357	357	714	714	714	1 071	1 071	1 071	1 428	1 428	1 428	1 785	1 785	1 785	2 142	2 142	2 142	2 142	
2 Total New Thermal	1 582	1 582	1 939	1 939	1 939	2 296	2 296	2 296	2 653	2 653	2 653	3 010	3 010	3 010	3 367	3 367	3 612	3 612	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1 582	1 582	1 939	1 939	1 939	2 296	2 296	2 296	2 653	2 653	3 010	3 010	3 010	3 367	3 367	3 612	3 612	
Base Supply Power Resources																			
Existing Hydro	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources		5 722																	
6 Total Power Resources	4+5	7 304	7 304	7 661	7 661	7 661	8 018	8 018	8 018	8 375	8 375	8 375	8 732	8 732	8 732	9 089	9 089	9 334	9 334
Peak Demand																			
2012 90th Percentile Load Forecast	6 520	6 626	6 733	6 839	6 945	7 052	7 158	7 264	7 370	7 477	7 583	7 689	7 796	7 902	8 008	8 115	8 221	8 327	
Less: 2012 Base DSM Forecast	-190	-189	-185	-178	-172	-166	-161	-154	-146	-138	-131	-124	-117	-110	-102	-95	-88	-81	
7 Manitoba Net Load		6 330	6 437	6 548	6 661	6 773	6 886	6 997	7 110	7 224	7 339	7 452	7 565	7 679	7 792	7 906	8 020	8 133	8 246
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Manitoba Net Load	7+8	6 330	6 437	6 548	6 661	6 773	6 886	6 997	7 110	7 224	7 339	7 452	7 565	7 679	7 792	7 906	8 020	8 133	8 246
10 Reserves		760	773	786	799	813	826	840	853	867	881	894	908	921	935	949	962	976	990
11 System Surplus	6-9-10	214	94	327	201	75	306	181	55	284	155	29	259	132	5	234	107	225	98
Less: Brandon Unit 5																			
Exportable Surplus	11+12	214	94	327	201	75	306	181	55	284	155	29	259	132	5	234	107	225	98

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference**

All Gas - 90th Percentile Load

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271		
Proposed Imports			781	936	936	936	936	936	936	936	936	936	936	936	936	936	155		
Hydro Adjustment	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	139		
Market Purchases	363	363	338	583	493	493	493	493	493	493	493	493	493	493	493	2 641	3 068	3 068	
Existing Wind	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses						239	239	239	239	239	239	239	239	239	239	239	239	239	
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	30 055	29 339	29 201	29 191	29 181	29 181	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	31 942	31 932	33 779	33 769	33 759	35 621	35 611	35 601	35 601	
Manitoba Domestic Load																			
2012 90th Percentile Load Forecast	25 323	26 292	26 790	27 257	27 673	28 250	28 858	29 275	29 868	30 434	31 004	31 563	32 125	32 676	33 222	33 774	34 328	34 880	
Construction Power - Hydro															10	20	30	35	
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	25 261	26 119	26 519	26 901	27 237	27 741	28 275	28 632	29 175	29 694	30 222	30 758	31 305	31 845	32 377	32 938	33 508	34 083	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	249	145	145	145	
Proposed Exports				162	162	162	162	162	162	162	162	162	162	162	162				
Less: Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
9 Total Net Exports	3 202	3 156	3 156	1 968	1 804	188	145	145	145										
10 Total Energy Demand	8+9	28 463	29 275	29 675	28 869	29 041	29 545	30 079	30 436	30 979	31 498	32 026	32 562	33 109	32 033	32 522	33 083	33 653	34 228
11 System Surplus	7-10	1 526	978	601	1 808	1 676	1 391	847	251	963	434	1 753	1 217	660	3 726	3 099	2 528	1 948	1 373
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 592											
13 Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
Exportable Surplus	11+12+13	624	167		688	495	210		593	64	1 383	847	290	3 665	3 099	2 528	1 948	1 373	

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference**

All Gas - 90th Percentile Load

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	
CCGT	2 706	2 706	5 412	5 412	5 412	8 118	8 118	8 118	10 824	10 824	10 824	13 530	13 530	13 530	16 236	16 236	16 236	16 236	
2 Total New Thermal	6 420	6 420	9 126	9 126	9 126	11 832	11 832	11 832	14 538	14 538	14 538	17 244	17 244	17 244	19 950	19 950	19 950	19 950	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4	6 420	6 420	9 126	9 126	9 126	11 832	11 832	11 832	14 538	14 538	14 538	17 244	17 244	17 244	19 950	19 950	19 950	19 950
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	
6 Total Base Supply Power Resources		29 231	29 321	29 311	29 301	29 301	29 291	29 281	29 281	29 271	29 271	29 261	29 251	29 251	29 241	29 231	29 231	29 221	29 211
7 Total Power Resources	5+6	35 651	35 741	38 437	38 427	38 427	41 123	41 113	41 113	43 809	43 809	43 799	46 495	46 495	46 485	49 181	49 181	49 171	49 161
Manitoba Domestic Load																			
2012 90th Percentile Load Forecast																			
35 430	35 980	36 530	37 080	37 629	38 179	38 729	39 279	39 829	40 379	40 928	41 478	42 028	42 578	43 128	43 678	44 228	44 777		
30	10																		
- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349		
8 Manitoba Net Load		34 644	35 187	35 751	36 337	36 918	37 497	38 072	38 651	39 231	39 811	40 388	40 962	41 541	42 119	42 697	43 274	43 851	44 428
Contracted Exports																			
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports		145																	
10 Total Energy Demand	8+9	34 789	35 332	35 896	36 482	37 063	37 642	38 217	38 796	39 376	39 956	40 533	41 107	41 686	42 264	42 842	43 419	43 996	44 573
11 System Surplus	7-10	862	409	2 541	1 945	1 364	3 481	2 896	2 317	4 433	3 853	3 266	5 388	4 809	4 221	6 339	5 762	5 175	4 588
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	862	409	2 541	1 945	1 364	3 481	2 896	2 317	4 433	3 853	3 266	5 388	4 809	4 221	6 339	5 762	5 175	4 588

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference All Gas – 10 th Percentile Load																			
Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																245	245	
Base Supply Power Resources																			
Existing Hydro	5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses																			
5 Total Base Supply Power Resources	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679	5 679	5 679	5 679							
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	5 679	5 679	5 679	5 924						
Peak Demand																			
2012 10th Percentile Load Forecast	4 411	4 485	4 515	4 544	4 568	4 619	4 677	4 714	4 773	4 830	4 890	4 949	5 010	5 070	5 129	5 190	5 251	5 313	
Less: 2012 Base DSM Forecast	- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191	
7 Manitoba Net Load	4 399	4 449	4 457	4 467	4 473	4 508	4 550	4 572	4 619	4 665	4 714	4 768	4 825	4 881	4 935	4 995	5 058	5 122	
Contracted Exports	605	605	605	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	
8 Total Exports	605	605	605	358															
9 Total Peak Demand	7+8	5 004	5 054	5 062	4 825	4 831	4 866	4 908	4 930	4 977	5 023	5 072	5 126	5 183	4 881	4 935	4 995	5 058	5 122
10 Reserves		454	468	489	536	537	541	546	549	554	560	566	572	579	586	592	599	607	615
11 System Surplus	6-9-10	775	722	748	938	931	982	935	805	753	701	646	586	522	212	152	85	259	187
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
Exportable Surplus	11+12	670	617	643	833	826	877	830	805	753	701	646	586	522	212	152	85	259	187

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference All Gas - 10 th Percentile Load																			
Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT	245	245	245	490	490	490	735	735	735	735	735	735	735	735	980	980	980	1 035	
CCGT										357	357	357	357	357	357	357	357	357	
2 Total New Thermal	245	245	245	490	490	490	735	735	735	1 092	1 092	1 092	1 092	1 092	1 337	1 337	1 337	1 392	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	245	245	245	490	490	490	735	735	735	1 092	1 092	1 092	1 092	1 337	1 337	1 337	1 392	
Base Supply Power Resources																			
Existing Hydro	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
5 Total Base Supply Power Resources		5 722																	
6 Total Power Resources	4+5	5 967	5 967	5 967	6 212	6 212	6 212	6 457	6 457	6 457	6 814	6 814	6 814	6 814	7 059	7 059	7 059	7 114	
Peak Demand																			
2012 10th Percentile Load Forecast	5 375	5 437	5 499	5 561	5 623	5 685	5 747	5 809	5 871	5 933	5 995	6 057	6 119	6 181	6 243	6 305	6 367	6 429	
Less: 2012 Base DSM Forecast	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load	5 185	5 248	5 314	5 383	5 451	5 519	5 586	5 655	5 725	5 795	5 864	5 933	6 002	6 071	6 141	6 210	6 279	6 348	
8 Total Exports																			
9 Manitoba Net Load	7+8	5 185	5 248	5 314	5 383	5 451	5 519	5 586	5 655	5 725	5 795	5 864	5 933	6 002	6 071	6 141	6 210	6 279	6 348
10 Reserves		622	630	638	646	654	662	670	679	687	695	704	712	720	729	737	745	754	762
11 System Surplus	6-9-10	160	89	15	183	107	31	201	123	45	324	246	169	92	14	181	104	26	4
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	160	89	15	183	107	31	201	123	45	324	246	169	92	14	181	104	26	4

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference**

All Gas - 10th Percentile Load

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																	1 857	1 857
Base Supply Power Resources																			
Existing Hydro	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271	
Proposed Imports																			
781	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	155	
Hydro Adjustment	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	844	139	
Market Purchases	363	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	493	2 948	
Existing Wind	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses																			
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	30 055	29 116	28 968	28 995	29 023	29 061	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 085	30 075	30 065	30 065	29 116	28 968	28 995	30 880	30 918	
Manitoba Domestic Load																			
2012 10th Percentile Load Forecast	24 599	25 176	25 351	25 530	25 680	26 005	26 375	26 562	26 932	27 283	27 641	27 994	28 353	28 706	29 055	29 414	29 777	30 141	
Construction Power - Hydro																			
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	24 537	25 003	25 080	25 174	25 244	25 496	25 792	25 919	26 239	26 543	26 859	27 189	27 533	27 875	28 210	28 578	28 957	29 344	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	145	
Proposed Exports																			
162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	145	
Less: Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61		
9 Total Net Exports	3 202	3 156	3 156	1 968	1 804	188	145	145	145										
10 Total Energy Demand	8+9	27 739	28 159	28 236	27 142	27 048	27 300	27 596	27 723	28 043	28 347	28 663	28 993	29 337	28 063	28 355	28 723	29 102	29 489
11 System Surplus	7-10	2 250	2 094	2 040	3 535	3 669	3 636	3 330	2 964	2 042	1 728	1 402	1 072	718	1 053	613	272	1 778	1 429
Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 592											
Adverse Water		- 91		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61		
Exportable Surplus	11+12+13	1 348	1 283	1 229	2 415	2 488	2 455	2 149	2 002	1 672	1 358	1 032	702	348	992	613	272	1 778	1 429

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2012 Reference**

All Gas - 10th Percentile Load

Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro	1 857	1 857	1 857	1 857	3 714	5 571	5 571	5 571											
New Thermal																			
SCGT	1 857	1 857	1 857	1 857	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	3 714	2 706	2 706	2 706	
CCGT																			
2 Total New Thermal	1 857	1 857	1 857	1 857	3 714	6 420	8 277	8 277	8 277										
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports	1 857	1 857	1 857	1 857	3 714	6 420	8 277	8 277	8 277										
New Wind																			
5 Total New Power Resources	1 857	1 857	1 857	1 857	3 714	6 420	8 277	8 277	8 277										
Base Supply Power Resources																			
Existing Hydro	21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	2 986	3 022	3 060	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild	60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239	
6 Total Base Supply Power Resources	29 149	29 275	29 303	29 301	29 301	29 291	29 281	29 281	29 271	29 271	29 261	29 251	29 251	29 241	29 231	29 231	29 221	29 211	
7 Total Power Resources	31 006	31 132	31 160	31 158	33 015	33 005	32 995	32 995	32 985	32 985	35 691	35 681	35 671	35 671	35 661	35 651	37 508	37 498	37 488
Manitoba Domestic Load																			
2012 10th Percentile Load Forecast	30 505	30 870	31 235	31 600	31 966	32 331	32 696	33 062	33 427	33 792	34 157	34 523	34 888	35 253	35 619	35 984	36 349	36 715	
Construction Power - Hydro	30	10																	
Less: 2012 Base DSM Forecast	- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load	29 719	30 077	30 456	30 857	31 255	31 649	32 039	32 434	32 829	33 224	33 617	34 007	34 401	34 794	35 188	35 580	35 972	36 366	
Contracted Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
10 Total Energy Demand	8+9	29 864	30 222	30 601	31 002	31 400	31 794	32 184	32 579	32 974	33 369	33 762	34 152	34 546	34 939	35 333	35 725	36 117	36 511
11 System Surplus	7-10	1 142	910	559	156	1 615	1 211	811	416	11	2 322	1 919	1 519	1 125	722	318	1 783	1 381	977
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	1 142	910	559	156	1 615	1 211	811	416	11	2 322	1 919							

Date: August 16, 2013

		System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K20/C26/750MW (WPS Sale & Inv) - One Year Deferral of Keeyask and Conawapa																	
Fiscal Year		2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro		5 166	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177
Existing Thermal																			
Brandon Coal - Unit 5		105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
Selkirk Gas		132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
Brandon Units 6-7 SCGT		280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280
Contracted Imports		550	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385
Proposed Imports				220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220
Pointe du Bois Rebuild																			
Bipole III Reduced Losses								90	90	90	90	90	90	90	90	90	90	90	90
5 Total Base Supply Power Resources		6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 284	6 273	6 273	6 273	6 273	5 668	5 668	5 607	5 607	5 607
6 Total Power Resources	4+5	6 233	6 244	6 299	6 299	6 299	6 389	6 389	6 284	6 374	6 723	6 903	6 903	6 903	6 365	6 818	7 277	7 537	7 537
Peak Demand																			
2012 Base Load Forecast		4 491	4 609	4 677	4 738	4 794	4 874	4 959	5 024	5 109	5 192	5 276	5 360	5 445	5 528	5 611	5 695	5 779	5 863
Less: 2012 Base DSM Forecast		- 12	- 36	- 58	- 77	- 95	- 111	- 127	- 142	- 154	- 165	- 176	- 181	- 185	- 189	- 194	- 195	- 193	- 191
7 Manitoba Net Load		4 479	4 573	4 619	4 661	4 699	4 763	4 832	4 882	4 955	5 027	5 100	5 179	5 260	5 339	5 417	5 500	5 586	5 672
Contracted Exports		605	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275
Proposed Exports				119	119	119	119	119	119	119	119	119	119	119	220	220	330	330	330
8 Total Exports		605	605	724	477	477	477	477	477	752	880	880	880	880	385	385	605	605	605
9 Total Peak Demand	7+8	5 084	5 178	5 343	5 138	5 176	5 240	5 309	5 359	5 707	5 907	5 980	6 059	6 140	5 724	6 022	6 105	6 191	6 277
10 Reserves		463	483	508	559	564	571	580	586	595	603	612	621	631	641	650	660	670	681
11 System Surplus	6-9-10	686	583	448	602	559	578	500	339	72	213	311	223	132	146	512	676	579	
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105										
Exportable Surplus	11+12	581	478	343	497	454	473	395	339	72	213	311	223	132	146	512	676	579	

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2012 Reference K20/C26/750MW (WPS Sale & Inv) - One Year Deferral of Keeyask and Conawapa																			
Fiscal Year	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1 930	2 175	2 175	2 175	2 420	2 420	2 665	2 665										
Base Supply Power Resources																			
Existing Hydro	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	5 177	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Bipole III Reduced Losses	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
5 Total Base Supply Power Resources		5 650																	
6 Total Power Resources	4+5	7 580	7 825	7 825	7 825	8 070	8 070	8 315	8 315										
Peak Demand																			
2012 Base Load Forecast	5 947	6 032	6 116	6 200	6 284	6 368	6 452	6 537	6 621	6 705	6 789	6 873	6 957	7 042	7 126	7 210	7 294	7 378	
Less: 2012 Base DSM Forecast	- 190	- 189	- 185	- 178	- 172	- 166	- 161	- 154	- 146	- 138	- 131	- 124	- 117	- 110	- 102	- 95	- 88	- 81	
7 Manitoba Net Load	5 757	5 843	5 931	6 022	6 112	6 202	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297	
Contracted Exports																			
Proposed Exports																			
8 Total Exports		605	605	605	605	605	330												
9 Total Peak Demand	7+8	6 362	6 448	6 536	6 627	6 717	6 532	6 291	6 383	6 475	6 567	6 658	6 749	6 840	6 932	7 024	7 115	7 206	7 297
10 Reserves		691	701	712	723	733	744	755	766	777	788	799	810	821	832	843	854	865	876
11 System Surplus	6-9-10	527	431	332	230	130	304	534	431	328	225	123	266	164	61	203	101	244	142
Less: Brandon Unit 5																			
Exportable Surplus	11+12	527	431	332	230	130	304	534	431	328	225	123	266	164	61	203	101	244	142

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2012 Reference

K20/C26/750MW (WPS Sale & Inv) – One Year Deferral of Keeyask and Conawapa

Fiscal Year	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 697	21 950	21 940	21 930	21 910	21 890	21 880	21 860	21 850	21 840	21 830	21 830	21 820	21 810	21 810	21 800	21 790	21 790	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271		
Proposed Imports																			
Hydro Adjustment	340	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	139		
Market Purchases	363	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	2 363	2 288	
Existing Wind	766	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses																			
6 Total Base Supply Power Resources	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	30 549	30 636	30 626	30 626	30 616	29 900	29 019	28 398	28 313	28 313	
7 Total Power Resources	5+6	29 989	30 253	30 276	30 677	30 717	30 936	30 926	30 687	31 970	34 723	34 742	34 732	34 016	36 075	38 426	38 415	38 415	
Manitoba Domestic Load																			
2012 Base Load Forecast	24 961	25 734	26 071	26 393	26 677	27 128	27 616	27 919	28 400	28 859	29 322	29 779	30 239	30 691	31 138	31 594	32 053	32 511	
Construction Power - Hydro			10	25	50	50	80	100	70	55	50	55	80	110	110	60	35	35	
Less: 2012 Base DSM Forecast	- 62	- 173	- 271	- 356	- 436	- 509	- 583	- 643	- 693	- 740	- 782	- 805	- 820	- 841	- 865	- 866	- 850	- 832	
8 Manitoba Net Load	24 899	25 561	25 810	26 062	26 291	26 669	27 113	27 376	27 777	28 174	28 590	29 029	29 499	29 960	30 383	30 788	31 238	31 714	
Contracted Exports	3 293	3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	4 314	2 031	1 887	1 472	1 389	
Proposed Exports				448	699	699	699	699	699	252	162	162	162	162	829	1 410	1 493	1 493	
Less: Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85				
9 Total Net Exports	3 202	3 156	3 604	2 505	2 341	2 341	2 341	2 377	3 954	3 963	3 963	3 963	1 946	2 716	2 882	2 882	2 882		
10 Total Energy Demand	8+9	28 101	28 717	29 414	28 567	28 632	29 010	29 454	29 717	31 154	32 128	32 553	32 992	33 462	31 906	33 099	33 670	34 120	34 596
11 System Surplus	7-10	1 888	1 536	862	2 110	2 085	1 926	1 472	970	816	2 595	2 189	1 750	1 270	2 110	2 976	4 756	4 295	3 819
12 Less : Brandon Unit 5	- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 811	- 592										
13 Adverse Water	- 91			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85				
Exportable Surplus	11+12+13	986	725	51	990	904	745	291	8	446	2 106	1 676	1 237	757	2 025	2 976	4 756	4 295	3 819

Date: August 16, 2013

		System Firm Energy Demand and Dependable Resources (GWh) @ generation NFAT 2012 Reference K20/C26/750MW (WPS Sale & Inv) – One Year Deferral of Keeyask and Conawapa																		
Fiscal Year		2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	
Power Resources																				
New Power Resources																				
New Hydro																				
Conawapa		4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask		3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro		7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	
New Thermal																		1 857	1 857	1 857
SCGT																		1 857	1 857	1 857
CCGT																		3 714	3 714	3 714
2 Total New Thermal																		1 857	1 857	1 857
New Imports																				
Contracted		1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113	1 113
Proposed		1 336	1 336	1 336	1 336	1 336	1 336	1 336	1 336	1 336	1 336	1 336	1 336	1 336	1 336	1 336	1 336	1 336	1 336	1 336
3 Total New Imports		2 449	2 449	2 449	2 449	2 449	2 449	2 449	2 449	2 449	2 449	2 449	2 449	2 449	2 449	2 449	2 449	2 449	2 449	
New Wind																				
5 Total New Power Resources	1+2+3+4	10 102	10 102	10 102	10 102	10 102	9 175	7 876	7 653	7 653	7 653	7 653	9 510	11 367	11 367	11 367				
Base Supply Power Resources																				
Existing Hydro		21 780	21 780	21 770	21 760	21 760	21 750	21 740	21 740	21 730	21 730	21 720	21 710	21 710	21 700	21 690	21 690	21 680	21 670	
Existing Thermal																				
Brandon Coal - Unit 5		953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953
Selkirk Gas		2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354
Brandon Units 6-7 SCGT																				
Contracted Imports																				
Proposed Imports																				
Hydro Adjustment																				
Market Purchases		2 288	2 288	2 288	2 288	2 288	3 216	3 546	3 568	3 617	3 666	3 714	3 762	3 811	3 860	3 908	3 957	4 005	4 054	
Existing Wind		777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777
Pointe du Bois Rebuild		60	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
Bipole III Reduced Losses		151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151
6 Total Base Supply Power Resources		28 363	28 453	28 443	28 433	28 433	29 351	29 671	29 693	29 732	29 781	29 819	29 857	29 906	29 945	29 983	30 032	30 070	30 109	
7 Total Power Resources	5+6	38 465	38 555	38 545	38 535	38 535	38 526	37 547	37 346	37 385	37 434	37 472	39 367	39 416	39 455	39 493	41 399	41 437	41 476	
Manitoba Domestic Load																				
2012 Base Load Forecast		32 967	33 425	33 882	34 340	34 798	35 255	35 713	36 170	36 628	37 085	37 543	38 001	38 458	38 916	39 373	39 831	40 288	40 746	
Construction Power - Hydro		30	10																	
Less: 2012 Base DSM Forecast		- 816	- 803	- 779	- 743	- 711	- 682	- 657	- 628	- 598	- 568	- 540	- 516	- 487	- 459	- 431	- 404	- 377	- 349	
8 Manitoba Net Load		32 181	32 632	33 103	33 597	34 087	34 573	35 056	35 542	36 030	36 517	37 003	37 485	37 971	38 457	38 942	39 427	39 911	40 397	
Contracted Exports		1 389	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports		1 493	1 493	1 493	1 493	1 493	1 493	249												
Less: Adverse Water																				
9 Total Net Exports		2 882	2 882	2 882	2 882	2 882	1 846	394	145											
10 Total Energy Demand	8+9	35 063	35 514	35 985	36 479	36 969	36 419													

5. **Manitoba Hydro Supply and Demand Tables**

NFAT 2013 Update

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
No New Resources

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 124	5 127	5 164	5 167	5 194	5 197	5 200	5 203	5 206	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105													
Selkirk Gas		66	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports		220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																		45	
Bipole III Reduced Losses						86	86	86	86	86	86	86	86	86	86	86	86	86	
5 Total Base Supply Power Resources	6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 306	6 309	6 312	6 312	6 312	5 927	5 752					
6 Total Power Resources	4+5	6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 306	6 309	6 312	6 312	5 927	5 752					
Peak Demand																			
2013 Base Load Forecast	4 601	4 680	4 742	4 801	4 857	4 930	5 002	5 074	5 147	5 222	5 296	5 369	5 443	5 516	5 588	5 664	5 739	5 813	
Less: 2013 Base DSM Forecast	- 22	- 43	- 62	- 79	- 94	- 109	- 118	- 127	- 136	- 144	- 149	- 153	- 157	- 161	- 166	- 164	- 162	- 161	
7 Manitoba Net Load	4 579	4 637	4 680	4 722	4 763	4 821	4 884	4 947	5 011	5 078	5 147	5 216	5 286	5 355	5 422	5 500	5 577	5 652	
Contracted Exports	605	605	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	
Proposed Exports			55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
8 Total Exports	605	605	413	413	413	413	413	413	358										
9 Total Peak Demand	7+8	5 184	5 242	5 093	5 135	5 176	5 234	5 297	5 305	5 369	5 436	5 505	5 574	5 286	5 355	5 422	5 500	5 577	5 652
10 Reserves		483	510	562	567	572	579	586	594	601	609	618	626	634	643	651	660	669	678
11 System Surplus/(Deficit)	6-9-10	392	431	631	587	654	592	420	407	339	267	189	112	7	(71)	(146)	(233)	(319)	(578)
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
Exportable Surplus	11+12	287	326	526	482	549	487	420	407	339	267	189	112	7					

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
No New Resources

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Existing Thermal																			
Brandon Coal - Unit 5	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Selkirk Gas	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
Bipole III Reduced Losses	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	
5 Total Base Supply Power Resources	5 752																		
6 Total Power Resources	4+5	5 752																	
Peak Demand																			
2013 Base Load Forecast	5 886	5 959	6 032	6 105	6 178	6 251	6 324	6 396	6 469	6 542	6 615	6 688	6 761	6 834	6 907	6 979	7 052	7 125	
Less: 2013 Base DSM Forecast	- 160	- 159	- 153	- 147	- 141	- 136	- 131	- 124	- 117	- 111	- 105	- 100	- 100	- 100	- 100	- 100	- 100	- 100	- 100
7 Manitoba Net Load	5 726	5 800	5 879	5 958	6 037	6 115	6 193	6 272	6 352	6 431	6 510	6 588	6 661	6 734	6 807	6 879	6 952	7 025	
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	5 726	5 800	5 879	5 958	6 037	6 115	6 193	6 272	6 352	6 431	6 510	6 588	6 661	6 734	6 807	6 879	6 952	7 025
10 Reserves		687	696	705	715	724	734	743	753	762	772	781	791	799	808	817	826	834	843
11 System Surplus/(Deficit)	6-9-10	(661)	(744)	(832)	(921)	(1 009)	(1 097)	(1 184)	(1 273)	(1 362)	(1 451)	(1 539)	(1 627)	(1 708)	(1 790)	(1 872)	(1 953)	(2 034)	(2 116)
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12																		

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

No New Resources

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 914	21 912	21 911	21 899	21 888	21 880	21 862	21 854	21 846	21 838	21 838	21 828	21 818	21 818	21 808	21 798	21 798	21 788	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	
Proposed Imports		781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	
Hydro Adjustment	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	
Market Purchases	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	493	493	493	
Existing Wind	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild																		60	
Bipole III Reduced Losses																		190	
6 Total Base Supply Power Resources	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 034	30 026	30 018	30 018	30 008	29 560	29 461	29 451	29 441	29 441	29 254	
7 Total Power Resources	5+6	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 034	30 026	30 018	30 018	30 008	29 560	29 461	29 451	29 441	29 254	
Manitoba Domestic Load																			
2013 Base Load Forecast	25 239	25 676	26 013	26 322	26 606	27 003	27 398	27 789	28 197	28 605	29 013	29 418	29 822	30 225	30 625	31 041	31 453	31 863	
Construction Power - Hydro															4	12	16	28	
Less: 2013 Base DSM Forecast	- 108	- 204	- 288	- 362	- 433	- 501	- 548	- 588	- 628	- 667	- 696	- 712	- 728	- 751	- 773	- 755	- 736	- 722	
8 Manitoba Net Load	25 131	25 472	25 725	25 960	26 173	26 502	26 850	27 201	27 569	27 938	28 317	28 706	29 094	29 478	29 864	30 302	30 745	31 149	
Contracted Exports	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	145	145	145	
Proposed Exports			394	414	414	414	414	414	414	414	414	414	414	414	414	414	162	162	
Less: Adverse Water			- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
9 Total Net Exports	3 156	3 156	2 200	2 056	2 056	2 056	2 056	1 846	1 804	350	307	307	307	145					
10 Total Energy Demand	8+9	28 287	28 628	27 925	28 016	28 229	28 558	28 906	29 047	29 373	29 742	30 121	30 510	29 444	29 785	30 171	30 609	31 052	31 294
11 System Surplus/(Deficit)	7-10	1 924	1 614	2 727	2 684	2 650	2 313	1 728	987	653	276	(103)	(502)	116	(324)	(720)	(1 168)	(1 611)	(2 040)
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 592												
13 Adverse Water			- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
Exportable Surplus	11+12+13	1 113	803	1 607	1 503	1 469	1 132	766	617	283					55				

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

No New Resources

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 788	21 778	21 768	21 768	21 758	21 748	21 748	21 738	21 738	21 728	21 718	21 718	21 708	21 698	21 698	21 688	21 678	21 678	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	
6 Total Base Supply Power Resources	29 274	29 264	29 254	29 254	29 244	29 234	29 234	29 224	29 224	29 214	29 204	29 204	29 194	29 184	29 184	29 174	29 164	29 164	
7 Total Power Resources	5+6	29 274	29 264	29 254	29 254	29 244	29 234	29 234	29 224	29 224	29 214	29 204	29 204	29 194	29 184	29 184	29 174	29 164	29 164
Manitoba Domestic Load																			
2013 Base Load Forecast	32 265	32 667	33 069	33 471	33 873	34 274	34 676	35 078	35 480	35 882	36 283	36 685	37 087	37 489	37 890	38 292	38 694	39 096	
Construction Power - Hydro	8	4																	
Less: 2013 Base DSM Forecast	- 712	- 701	- 665	- 636	- 609	- 585	- 562	- 535	- 508	- 484	- 465	- 446	- 446	- 446	- 446	- 446	- 446	- 446	
8 Manitoba Net Load	31 561	31 970	32 404	32 835	33 264	33 689	34 114	34 543	34 972	35 398	35 818	36 239	36 641	37 043	37 444	37 846	38 248	38 650	
Contracted Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
10 Total Energy Demand	8+9	31 706	32 115	32 549	32 980	33 409	33 834	34 259	34 688	35 117	35 543	35 963	36 384	36 786	37 188	37 589	37 991	38 393	38 795
11 System Surplus/(Deficit)	7-10	(2 432)	(2 851)	(3 295)	(3 726)	(4 165)	(4 600)	(5 025)	(5 464)	(5 893)	(6 329)	(6 759)	(7 180)	(7 592)	(8 004)	(8 405)	(8 817)	(9 229)	(9 631)
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13																		

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K19/C26/750MW (WPS Sale & Inv)**

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro	90	630	630	630	630	630	630	630	630	630	630	520	1 040	1 300	1 300	1 300	1 300		
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal	90	630	630	630	630	630	630	630	630	630	630	1 150	1 670	1 930	1 930	1 930	1 930		
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	90	630	630	630	630	630	630	630	630	630	1 150	1 670	1 930	1 930	1 930	1 930		
Base Supply Power Resources																			
Existing Hydro	5 124	5 127	5 164	5 167	5 194	5 197	5 200	5 203	5 206	5 209	5 209	5 209	5 209	5 209	5 185	5 185	5 185		
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	132	132	132		
Selkirk Gas		66	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports		220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																		45	
Bipole III Reduced Losses																		14	
5 Total Base Supply Power Resources	6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 295	6 298	6 301	6 301	6 301	5 916	5 916	5 855	5 831	5 831	5 656	
6 Total Power Resources	4+5	6 059	6 183	6 286	6 289	6 402	6 405	6 393	6 925	6 928	6 931	6 931	6 931	6 546	7 066	7 525	7 761	7 761	7 586
Peak Demand																			
2013 Base Load Forecast	4 601	4 680	4 742	4 801	4 857	4 930	5 002	5 074	5 147	5 222	5 296	5 369	5 443	5 516	5 588	5 664	5 739	5 813	
Less: 2013 Base DSM Forecast	- 22	- 43	- 62	- 79	- 94	- 109	- 118	- 127	- 136	- 144	- 149	- 153	- 157	- 161	- 166	- 164	- 162	- 161	
7 Manitoba Net Load	4 579	4 637	4 680	4 722	4 763	4 821	4 884	4 947	5 011	5 078	5 147	5 216	5 286	5 355	5 422	5 500	5 577	5 652	
Contracted Exports	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	275	
Proposed Exports		119	174	174	174	174	174	119					220	330	330	330	330	330	
8 Total Exports	605	724	532	532	532	532	532	752	880	880	880	880	385	605	605	605	605	605	
9 Total Peak Demand	7+8	5 184	5 361	5 212	5 254	5 295	5 353	5 416	5 699	5 891	5 958	6 027	6 096	5 671	5 960	6 027	6 105	6 182	6 257
10 Reserves		483	510	562	567	572	579	586	594	601	609	618	626	634	643	651	660	669	678
11 System Surplus	6-9-10	392	312	512	468	535	473	391	632	436	364	286	209	241	463	847	996	910	651
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105											
Exportable Surplus	11+12	287	207	407	363	430	368	391	632	436	364	286	209	241	463	847	996	910	651

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2013 Update K19/C26/750MW (WPS Sale & Inv)																			
Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	
New Thermal																			
SCGT																	245	245	245
CCGT																	300		
2 Total New Thermal																	245	245	245
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1 930	2 175	2 175	2 175	2 230													
Base Supply Power Resources																			
Existing Hydro	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Bipole III Reduced Losses	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
5 Total Base Supply Power Resources		5 656																	
6 Total Power Resources	4+5	7 586	7 831	7 831	7 886														
Peak Demand																			
2013 Base Load Forecast	5 886	5 959	6 032	6 105	6 178	6 251	6 324	6 396	6 469	6 542	6 615	6 688	6 761	6 834	6 907	6 979	7 052	7 125	
Less: 2013 Base DSM Forecast	- 160	- 159	- 153	- 147	- 141	- 136	- 131	- 124	- 117	- 111	- 105	- 100	- 100	- 100	- 100	- 100	- 100	- 100	- 100
7 Manitoba Net Load		5 726	5 800	5 879	5 958	6 037	6 115	6 193	6 272	6 352	6 431	6 510	6 588	6 661	6 734	6 807	6 879	6 952	7 025
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	6 331	6 405	6 484	6 563	6 367	6 115	6 193	6 272	6 352	6 431	6 510	6 588	6 661	6 734	6 807	6 879	6 952	7 025
10 Reserves		687	696	705	715	724	734	743	753	762	772	781	791	799	808	817	826	834	843
11 System Surplus	6-9-10	568	485	397	308	495	737	650	561	472	383	295	207	126	44	207	126	45	18
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	568	485	397	308	495	737	650	561	472	383	295	207	126	44	207	126	45	18

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System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K19/C26/750MW (WPS Sale & Inv)

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro								493	2 974	3 003	3 003	3 003	3 003	3 003	2 198	4 650	4 650	4 650	
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 New Wind																			
5 Total New Power Resources	1+2+3+4							493	3 902	4 116	4 116	4 116	4 116	4 116	7 056	10 028	10 102	10 102	
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 914	21 912	21 911	21 899	21 888	21 880	21 862	21 854	21 846	21 838	21 838	21 828	21 818	21 818	21 808	21 798	21 798	21 788	
Selkirk Gas	811	811	811	811	811	811	811	592											
Brandon Units 6-7 SCGT	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Contracted Imports	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Proposed Imports	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271				
Hydro Adjustment	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	155	
Market Purchases	340	373	784	844	844	844	844	844	844	844	844	844	844	844	406	307	307	70	
Existing Wind	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	1 426	1 352	2 133	
Pointe du Bois Rebuild	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	60	
Bipole III Reduced Losses								190	190	190	202	202	202	202	202	133	133	133	
6 Total Base Supply Power Resources	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 510	30 595	30 587	30 587	30 577	30 128	29 287	28 688	28 604	28 604	28 417	
7 Total Power Resources	5+6	30 211	30 242	30 652	30 700	30 879	30 871	31 127	34 412	34 711	34 703	34 703	34 693	34 244	36 343	38 716	38 706	38 519	
Manitoba Domestic Load																			
2013 Base Load Forecast																			
Construction Power - Hydro	25 239	25 676	26 013	26 322	26 606	27 003	27 398	27 789	28 197	28 605	29 013	29 418	29 822	30 225	30 625	31 041	31 453	31 863	
Less: 2013 Base DSM Forecast	22	22	40	50	70	90	75	45	30	50	55	80	100	94	42	21	28	8	
8 Manitoba Net Load	- 108	- 204	- 288	- 362	- 433	- 501	- 548	- 588	- 628	- 667	- 696	- 712	- 728	- 751	- 773	- 755	- 736	- 722	
Contracted Exports	25 153	25 494	25 765	26 010	26 243	26 592	26 925	27 246	27 599	27 988	28 372	28 786	29 194	29 568	29 894	30 307	30 745	31 149	
Proposed Exports	3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	4 314	2 031	1 887	1 472	1 389	1 389	
Less: Adverse Water				448	931	952	952	952	742	252	162	162	162	991	1 572	1 655	1 655	1 493	
9 Total Net Exports				- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 85					
10 Total Energy Demand	8+9	3 156	3 604	2 737	2 594	2 594	2 594	2 594	3 420	3 954	3 963	3 963	3 963	2 108	2 878	3 044	3 044	2 882	
11 System Surplus	7-10	1 902	1 144	2 150	2 096	2 042	1 685	1 608	3 746	3 158	2 752	2 368	1 944	2 942	3 897	5 778	5 355	4 917	4 488
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 592												
13 Adverse Water				- 309	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 85						
Exportable Surplus	11+12+13	1 091	333	1 030	915	861	504	646	3 376	2 669	2 239	1 855	1 431	2 857	3 897	5 778	5 355	4 917	4 488

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K19/C26/750MW (WPS Sale & Inv)

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																	1 857	1 857	1 857
New Imports																			
Contracted	1 113	1 113	1 113	1 113	186														
Proposed	1 336	1 336	1 336	1 336	1 336	223													
3 Total New Imports	2 449	2 449	2 449	2 449	1 522	223													
New Wind																			
5 Total New Power Resources	1+2+3+4	10 102	10 102	10 102	10 102	9 175	7 876	7 653	9 510	9 510	9 510	9 936							
Base Supply Power Resources																			
Existing Hydro	21 788	21 778	21 768	21 768	21 758	21 748	21 748	21 738	21 738	21 728	21 718	21 718	21 708	21 698	21 698	21 688	21 678	21 678	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	2 288	2 288	2 288	2 288	3 216	3 409	3 425	3 468	3 511	3 554	3 596	3 638	3 678	3 718	3 758	3 799	3 839	3 879	
Existing Wind	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	
6 Total Base Supply Power Resources	28 437	28 427	28 417	28 417	29 335	29 518	29 534	29 567	29 610	29 643	29 675	29 717	29 747	29 777	29 817	29 848	29 878	29 918	
7 Total Power Resources	5+6	38 539	38 529	38 519	38 519	38 510	37 394	37 187	37 220	37 263	37 296	37 328	37 370	37 400	37 430	39 327	39 358	39 388	39 854
Manitoba Domestic Load																			
2013 Base Load Forecast	32 265	32 667	33 069	33 471	33 873	34 274	34 676	35 078	35 480	35 882	36 283	36 685	37 087	37 489	37 890	38 292	38 694	39 096	
Construction Power - Hydro	8	4																	
Less: 2013 Base DSM Forecast	- 712	- 701	- 665	- 636	- 609	- 585	- 562	- 535	- 508	- 484	- 465	- 446	- 446	- 446	- 446	- 446	- 446	- 446	
8 Manitoba Net Load	31 561	31 970	32 404	32 835	33 264	33 689	34 114	34 543	34 972	35 398	35 818	36 239	36 641	37 043	37 444	37 846	38 248	38 650	
Contracted Exports	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports	1 493	1 493	1 493	1 493	1 493	249													
Less: Adverse Water																			
9 Total Net Exports	2 882	2 882	2 882	2 882	1 846	394	145												
10 Total Energy Demand	8+9	34 443	34 852	35 286	35 717	35 110	34 083	34 259	34 688	35 117	35 543	35 963	36 384	36 786	37 188	37 589	37 991	38 393	38 795
11 System Surplus	7-10	4 096	3 677	3 233	2 802	3 400	3 311	2 928	2 532	2 146	1 753	1 365	986	614	242	1 738	1 367	995	1 059
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	4 096	3 677	3 233	2 802	3 400	3												

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K19/C33/750MW

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 124	5 127	5 164	5 167	5 194	5 197	5 200	5 203	5 206	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105													
Selkirk Gas		66	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports		220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses						86	86	86	75	75	75	75	75	75	75	75	75	75	
5 Total Base Supply Power Resources	6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 295	6 298	6 301	6 301	6 301	5 916	5 741					
6 Total Power Resources	4+5	6 059	6 183	6 286	6 289	6 402	6 405	6 393	6 925	6 928	6 931	6 931	6 546	6 606					
Peak Demand																			
2013 Base Load Forecast	4 601	4 680	4 742	4 801	4 857	4 930	5 002	5 074	5 147	5 222	5 296	5 369	5 443	5 516	5 588	5 664	5 739	5 813	
Less: 2013 Base DSM Forecast	- 22	- 43	- 62	- 79	- 94	- 109	- 118	- 127	- 136	- 144	- 149	- 153	- 157	- 161	- 166	- 164	- 162	- 161	
7 Manitoba Net Load	4 579	4 637	4 680	4 722	4 763	4 821	4 884	4 947	5 011	5 078	5 147	5 216	5 286	5 355	5 422	5 500	5 577	5 652	
Contracted Exports	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	275	
Proposed Exports			55	55	55	55	55												
8 Total Exports	605	605	413	413	413	413	413	633	880	880	880	880	385	385	275	275	275	275	
9 Total Peak Demand	7+8	5 184	5 242	5 093	5 135	5 176	5 234	5 297	5 580	5 891	5 958	6 027	6 096	5 671	5 740	5 697	5 775	5 852	5 927
10 Reserves		483	510	562	567	572	579	586	594	601	609	618	626	634	643	651	660	669	678
11 System Surplus	6-9-10	392	431	631	587	654	592	510	751	436	364	286	209	241	163	198	111	25	1
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105											
Exportable Surplus	11+12	287	326	526	482	549	487	510	751	436	364	286	209	241	163	198	111	25	1

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2013 Update K19/C33/750MW																			
Fiscal Year		2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa			520	1 040	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask		630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro		630	630	1 150	1 670	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	
New Thermal																	245	245	
SCGT																	245	245	
CCGT																	300	300	
2 Total New Thermal																	245	245	
New Imports																			
Contracted																			
Proposed		317	400																
3 Total New Imports		317	400																
4 Total New Power Resources	1+2+3	947	1 030	1 150	1 670	1 930	2 175	2 175	2 230										
Base Supply Power Resources																			
Existing Hydro		5 209	5 209	5 209	5 209	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	
Existing Thermal																			
Brandon Coal - Unit 5		132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Selkirk Gas		280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
Bipole III Reduced Losses		75	75	75	14	14	14	14	14	14	14	14	14	14	14	14	14	14	
5 Total Base Supply Power Resources		5 741	5 741	5 741	5 680	5 656													
6 Total Power Resources	4+5	6 688	6 771	6 891	7 350	7 586	7 831	7 831	7 886										
Peak Demand																			
2013 Base Load Forecast		5 886	5 959	6 032	6 105	6 178	6 251	6 324	6 396	6 469	6 542	6 615	6 688	6 761	6 834	6 907	6 979	7 052	7 125
Less: 2013 Base DSM Forecast		- 160	- 159	- 153	- 147	- 141	- 136	- 131	- 124	- 117	- 111	- 105	- 100	- 100	- 100	- 100	- 100	- 100	- 100
7 Manitoba Net Load		5 726	5 800	5 879	5 958	6 037	6 115	6 193	6 272	6 352	6 431	6 510	6 588	6 661	6 734	6 807	6 879	6 952	7 025
Contracted Exports		275	275	275	275														
Proposed Exports																			
8 Total Exports		275	275	275	275														
9 Total Peak Demand	7+8	6 001	6 075	6 154	6 233	6 037	6 115	6 193	6 272	6 352	6 431	6 510	6 588	6 661	6 734	6 807	6 879	6 952	7 025
10 Reserves		687	696	705	715	724	734	743	753	762	772	781	791	799	808	817	826	834	843
11 System Surplus	6-9-10		32	402	825	737	650	561	472	383	295	207	126	44	207	126	45	18	
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12		32	402	825	737	650	561	472	383	295	207	126	44	207	126	45	18	

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K19/C33/750MW

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
493																			
493																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
928																			
928																			
4 New Wind																			
5 Total New Power Resources	1+2+3+4																		
493																			
3 902																			
4 116																			
4 116																			
4 116																			
4 116																			
4 116																			
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 914	21 912	21 911	21 899	21 888	21 880	21 862	21 854	21 846	21 838	21 838	21 828	21 818	21 818	21 808	21 798	21 798	21 788	
Selkirk Gas	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Brandon Units 6-7 SCGT	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	
Proposed Imports	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	
Hydro Adjustment	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	
Market Purchases	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	493	493	493	
Existing Wind	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild																		60	
Bipole III Reduced Losses																		202	
6 Total Base Supply Power Resources	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 510	30 595	30 587	30 587	30 577	30 577	30 128	30 030	29 773	29 725	29 771	29 464
7 Total Power Resources	5+6	30 211	30 242	30 652	30 700	30 879	30 871	31 127	34 412	34 711	34 703	34 703	34 693	34 244	34 146	33 889	33 841	33 887	33 580
Manitoba Domestic Load																			
2013 Base Load Forecast	25 239	25 676	26 013	26 322	26 606	27 003	27 398	27 789	28 197	28 605	29 013	29 418	29 822	30 225	30 625	31 041	31 453	31 863	
Construction Power - Hydro	22	22	40	50	70	80	60	25						10	19	32	46	78	63
Less: 2013 Base DSM Forecast	- 108	- 204	- 288	- 362	- 433	- 501	- 548	- 588	- 628	- 667	- 696	- 712	- 728	- 751	- 773	- 755	- 736	- 722	
8 Manitoba Net Load	25 153	25 494	25 765	26 010	26 243	26 582	26 910	27 226	27 569	27 938	28 317	28 706	29 104	29 493	29 884	30 332	30 795	31 204	
Contracted Exports	3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	4 314	2 031	1 887	1 472	1 389	1 389	
Proposed Exports			394	414	414	414	414	204	162	162	162	162	162	162	162	162	162	162	
Less: Adverse Water			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85					
9 Total Net Exports	3 156	3 156	2 200	2 056	2 056	2 056	2 056	2 882	3 864	3 963	3 963	3 963	2 108	2 049	1 634	1 551	1 551	1 389	
10 Total Energy Demand	8+9	28 309	28 650	27 965	28 066	28 299	28 638	28 966	30 108	31 433	31 901	32 280	32 669	31 212	31 542	31 518	31 883	32 346	32 593
11 System Surplus	7-10	1 902	1 592	2 687	2 634	2 580	2 233	2 161	4 304	3 278	2 802	2 423	2 024	3 032	2 604	2 371	1 958	1 541	987
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 592												
13 Adverse Water			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85					
Exportable Surplus	11+12+13	1 091	781	1 567	1 453	1 399	1 052												

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K19/C33/750MW

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa			2 198	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	3 003	3 003	5 201	7 653															
New Thermal																			
SCGT																	1 857	1 857	1 857
CCGT																		2 283	
2 Total New Thermal																	1 857	1 857	1 857
New Imports																			
Contracted	1 113	1 113	1 113	1 113	186														
Proposed																			
3 Total New Imports	1 113	1 113	1 113	1 113	186														
New Wind																			
5 Total New Power Resources	4 116	4 116	6 314	8 766	7 839	7 653	9 510	9 510	9 510	9 936									
Base Supply Power Resources																			
Existing Hydro	21 788	21 778	21 768	21 768	21 758	21 748	21 748	21 738	21 738	21 728	21 718	21 718	21 708	21 698	21 698	21 688	21 678	21 678	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 309	3 352	3 395	3 432	3 363	3 383	3 426	3 469	3 512	3 554	3 596	3 638	3 679	3 719	3 759	3 799	3 839	3 879	
Existing Wind	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	202	202	202	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	
6 Total Base Supply Power Resources	29 527	29 560	29 593	29 561	29 482	29 492	29 535	29 568	29 611	29 643	29 675	29 717	29 748	29 778	29 818	29 848	29 878	29 918	
7 Total Power Resources	5+6	33 643	33 676	35 907	38 327	37 321	37 145	37 188	37 221	37 264	37 296	37 328	37 370	37 401	37 431	39 328	39 358	39 388	39 854
Manitoba Domestic Load																			
2013 Base Load Forecast	32 265	32 667	33 069	33 471	33 873	34 274	34 676	35 078	35 480	35 882	36 283	36 685	37 087	37 489	37 890	38 292	38 694	39 096	
Construction Power - Hydro	88	104	90	30	5														
Less: 2013 Base DSM Forecast	- 712	- 701	- 665	- 636	- 609	- 585	- 562	- 535	- 508	- 484	- 465	- 446	- 446	- 446	- 446	- 446	- 446	- 446	
8 Manitoba Net Load	31 641	32 070	32 494	32 865	33 269	33 689	34 114	34 543	34 972	35 398	35 818	36 239	36 641	37 043	37 444	37 846	38 248	38 650	
Contracted Exports	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	1 389	1 389	1 389	1 389	353	145													
10 Total Energy Demand	8+9	33 030	33 459	33 883	34 254	33 622	33 834	34 259	34 688	35 117	35 543	35 963	36 384	36 786	37 188	37 589	37 991	38 393	38 795
11 System Surplus	7-10	613	217	2 024	4 073	3 699	3 311	2 929	2 533	2 147	1 753	1 365	986	615	243	1 739	1 367	995	1 059
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	613	217	2 024	4 073	3 699	3 311	2 929	2 533	2 147	1 753	1 365	986	615	243	<			

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K19/Gas30/250MW

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
90	90	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
90	90	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	875	
Base Supply Power Resources																			
Existing Hydro	5 124	5 127	5 164	5 167	5 194	5 197	5 200	5 203	5 206	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas	66	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports		220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																		45	
Bipole III Reduced Losses																		75	
5 Total Base Supply Power Resources		6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 295	6 298	6 301	6 301	6 301	5 916	5 916	5 916	5 916	5 741	
6 Total Power Resources	4+5	6 059	6 183	6 286	6 289	6 402	6 405	6 393	6 925	6 928	6 931	6 931	6 931	6 546	6 546	6 546	6 546	6 616	
Peak Demand																			
2013 Base Load Forecast	4 601	4 680	4 742	4 801	4 857	4 930	5 002	5 074	5 147	5 222	5 296	5 369	5 443	5 516	5 588	5 664	5 739	5 813	
Less: 2013 Base DSM Forecast	- 22	- 43	- 62	- 79	- 94	- 109	- 118	- 127	- 136	- 144	- 149	- 153	- 157	- 161	- 166	- 164	- 162	- 161	
7 Manitoba Net Load		4 579	4 637	4 680	4 722	4 763	4 821	4 884	4 947	5 011	5 078	5 147	5 216	5 286	5 355	5 422	5 500	5 577	5 652
Contracted Exports	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	275	
Proposed Exports		55	55	55	55	55	55												
8 Total Exports		605	605	413	413	413	413	413	633	880	880	880	880	385	385	275	275	275	
9 Total Peak Demand	7+8	5 184	5 242	5 093	5 135	5 176	5 234	5 297	5 580	5 891	5 958	6 027	6 096	5 671	5 740	5 697	5 775	5 852	5 927
10 Reserves		483	510	562	567	572	579	586	594	601	609	618	626	634	643	651	660	669	678
11 System Surplus	6-9-10	392	431	631	587	654	592	510	751	436	364	286	209	241	163	198	111	25	11
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105											
Exportable Surplus	11+12	287	326	526	482	549	487	510	751	436	364	286	209	241	163	198	111	25	11

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K19/Gas30/250MW

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT	490	490	490	735	735	735	735	735	980	980	980	980	980	980	980	980	1 225	1 225	
CCGT																			
2 Total New Thermal	490	490	490	735	735	735	735	735	980	1 225	1 225								
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1 120	1 120	1 120	1 365	1 610	1 610	1 610	1 967	2 212	2 212									
Base Supply Power Resources																			
Existing Hydro	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
Bipole III Reduced Losses	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	
5 Total Base Supply Power Resources	5 741	5 741	5 741	5 741	5 741	5 741	5 741	5 741	5 741	5 741	5 741	5 741	5 741	5 741	5 741	5 741	5 741	5 741	
6 Total Power Resources	4+5	6 861	6 861	6 861	7 106	7 106	7 106	7 106	7 351	7 351	7 351	7 708	7 953	7 953					
Peak Demand																			
2013 Base Load Forecast	5 886	5 959	6 032	6 105	6 178	6 251	6 324	6 396	6 469	6 542	6 615	6 688	6 761	6 834	6 907	6 979	7 052	7 125	
Less: 2013 Base DSM Forecast	- 160	- 159	- 153	- 147	- 141	- 136	- 131	- 124	- 117	- 111	- 105	- 100	- 100	- 100	- 100	- 100	- 100	- 100	- 100
7 Manitoba Net Load	5 726	5 800	5 879	5 958	6 037	6 115	6 193	6 272	6 352	6 431	6 510	6 588	6 661	6 734	6 807	6 879	6 952	7 025	
Contracted Exports																			
Proposed Exports																			
8 Total Exports	275	275	275	275															
9 Total Peak Demand	7+8	6 001	6 075	6 154	6 233	6 037	6 115	6 193	6 272	6 352	6 431	6 510	6 588	6 661	6 734	6 807	6 879	6 952	7 025
10 Reserves		687	696	705	715	724	734	743	753	762	772	781	791	799	808	817	826	834	843
11 System Surplus	6-9-10	173	90	2	158	345	257	170	81	237	148	60	329	248	166	84	3	167	85
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	173	90	2	158	345	257	170	81	237	148	60	329	248	166	84	3	167	85

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K19/Gas30/250MW

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro								493	2 974	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
New Thermal																		1 857	
SCGT																			
CCGT																			
2 Total New Thermal																		1 857	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports										186	223	223	223	223	223	223	223	223	
New Wind																			
5 Total New Power Resources	1+2+3+4							493	3 160	3 226	5 083								
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 914	21 912	21 911	21 899	21 888	21 880	21 862	21 854	21 846	21 838	21 838	21 828	21 818	21 818	21 808	21 798	21 798	21 788	
Selkirk Gas	811	811	811	811	811	811	811	592											
Brandon Units 6-7 SCGT	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Contracted Imports	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Proposed Imports	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271			
Hydro Adjustment	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	155	
Market Purchases	340	373	784	844	844	844	844	844	844	844	844	844	844	844	406	307	307	70	
Existing Wind	363	338	583	493	493	493	493	493	493	493	493	493	493	493	1 860	2 131	2 131	2 913	
Pointe du Bois Rebuild	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	60	
Bipole III Reduced Losses								190	190	190	202	202	202	202	202	202	202	202	
6 Total Base Supply Power Resources	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 046	30 038	30 030	30 030	30 020	29 571	29 472	29 462	29 452	29 452	29 266	
7 Total Power Resources	5+6	30 211	30 242	30 652	30 700	30 879	30 871	31 127	33 206	33 264	33 256	33 256	33 246	32 797	32 698	32 688	32 678	34 349	
Manitoba Domestic Load																			
2013 Base Load Forecast																			
Construction Power - Hydro	25 239	25 676	26 013	26 322	26 606	27 003	27 398	27 789	28 197	28 605	29 013	29 418	29 822	30 225	30 625	31 041	31 453	31 863	
Less: 2013 Base DSM Forecast	22	22	40	50	70	80	60	25							4	12	16	28	
8 Manitoba Net Load	- 108	- 204	- 288	- 362	- 433	- 501	- 548	- 588	- 628	- 667	- 696	- 712	- 728	- 751	- 773	- 755	- 736	- 722	
Contracted Exports	25 153	25 494	25 765	26 010	26 243	26 582	26 910	27 226	27 569	27 938	28 317	28 706	29 094	29 478	29 864	30 302	30 745	31 149	
Proposed Exports	3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	4 314	2 031	1 887	1 472	1 389	1 389	
Less: Adverse Water			394	414	414	414	414	204	162	162	162	162	162	162	162	162	162	162	
9 Total Net Exports			- 309	- 370	- 489	- 513	- 513	- 513	- 513	- 85									
10 Total Energy Demand	8+9	28 309	28 650	27 965	28 066	28 299	28 638	28 966	30 108	31 433	31 901	32 280	32 669	31 202	31 527	31 498	31 853	32 296	32 538
11 System Surplus	7-10	1 902	1 592	2 687	2 634	2 580	2 233	2 161	3 098	1 831	1 355	976	577	1 595	1 171	1 190	825	382	1 811
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 592												
13 Adverse Water			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85					
Exportable Surplus	11+12+13	1 091	781	1 567	1 453	1 399	1 052	1 199	2 728	1 342	842	463	64	1 510	1 171	1 190	825	382	1 811

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K19/Gas30/250MW

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
New Thermal																			
SCGT	3 714	3 714	3 714	5 571	5 571	5 571	5 571	7 428	7 428	7 428	7 428	7 428	7 428	7 428	7 428	9 285	9 285	9 285	
CCGT																			
2 Total New Thermal	3 714	3 714	3 714	5 571	5 571	5 571	5 571	7 428	10 134	11 991	11 991								
New Imports																			
Contracted	223	223	223	223	223	223	223	37	37	37	37	37	37	37	37	37	37	37	
3 Total New Imports	223	223	223	223	223	223	223	37											
4 New Wind																			
5 Total New Power Resources	1+2+3+4	6 940	6 940	6 940	8 797	8 611	8 574	8 574	8 574	10 431	10 431	10 431	13 137	14 994	14 994				
Base Supply Power Resources																			
Existing Hydro	21 788	21 778	21 768	21 768	21 758	21 748	21 748	21 738	21 738	21 728	21 718	21 718	21 708	21 698	21 698	21 688	21 678	21 678	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 068	3 068	3 068	3 068	3 253	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	
Existing Wind	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	
6 Total Base Supply Power Resources	29 286	29 276	29 266	29 266	29 441	29 468	29 468	29 458	29 458	29 448	29 438	29 438	29 428	29 418	29 418	29 408	29 398	29 398	
7 Total Power Resources	5+6	36 226	36 216	36 206	38 063	38 052	38 042	38 042	38 032	39 889	39 879	39 869	42 575	42 565	42 555	42 545	44 392	44 392	
Manitoba Domestic Load																			
2013 Base Load Forecast	32 265	32 667	33 069	33 471	33 873	34 274	34 676	35 078	35 480	35 882	36 283	36 685	37 087	37 489	37 890	38 292	38 694	39 096	
Construction Power - Hydro	8	4																	
Less: 2013 Base DSM Forecast	- 712	- 701	- 665	- 636	- 609	- 585	- 562	- 535	- 508	- 484	- 465	- 446	- 446	- 446	- 446	- 446	- 446	- 446	
8 Manitoba Net Load	31 561	31 970	32 404	32 835	33 264	33 689	34 114	34 543	34 972	35 398	35 818	36 239	36 641	37 043	37 444	37 846	38 248	38 650	
Contracted Exports	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	1 389	1 389	1 389	1 389	353	145													
10 Total Energy Demand	8+9	32 950	33 359	33 793	34 224	33 617	33 834	34 259	34 688	35 117	35 543	35 963	36 384	36 786	37 188	37 589	37 991	38 393	38 795
11 System Surplus	7-10	3 276	2 857	2 413	3 839	4 435	4 208	3 783	3 344	4 772	4 336	3 906	6 191	5 779	5 367	4 966	4 554	5 999	5 597
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	3 276	2 857	2 413	3 839	<													

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K23/Gas

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
90	90	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
90	90	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
Base Supply Power Resources																			
Existing Hydro	5 124	5 127	5 164	5 167	5 194	5 197	5 200	5 203	5 206	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105													
Selkirk Gas	66	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports		220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																		45	
Bipole III Reduced Losses					86	86	86	86	86	86	86	86	86	86	86	86	86	86	
5 Total Base Supply Power Resources		6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 306	6 309	6 312	6 312	6 301	5 916	5 916	5 916	5 916	5 741	
6 Total Power Resources	4+5	6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 306	6 309	6 312	6 402	6 931	6 546	6 546	6 546	6 546	6 371	
Peak Demand																			
2013 Base Load Forecast	4 601	4 680	4 742	4 801	4 857	4 930	5 002	5 074	5 147	5 222	5 296	5 369	5 443	5 516	5 588	5 664	5 739	5 813	
Less: 2013 Base DSM Forecast	- 22	- 43	- 62	- 79	- 94	- 109	- 118	- 127	- 136	- 144	- 149	- 153	- 157	- 161	- 166	- 164	- 162	- 161	
7 Manitoba Net Load		4 579	4 637	4 680	4 722	4 763	4 821	4 884	4 947	5 011	5 078	5 147	5 216	5 286	5 355	5 422	5 500	5 577	5 652
Contracted Exports	605	605	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	
Proposed Exports		55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
8 Total Exports		605	605	413	413	413	413	413	413	358	358	358	358	358	358	358	358	358	
9 Total Peak Demand	7+8	5 184	5 242	5 093	5 135	5 176	5 234	5 297	5 305	5 369	5 436	5 505	5 574	5 286	5 355	5 422	5 500	5 577	5 652
10 Reserves		483	510	562	567	572	579	586	594	601	609	618	626	634	643	651	660	669	678
11 System Surplus	6-9-10	392	431	631	587	654	592	420	407	339	267	279	731	626	548	473	386	300	41
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
Exportable Surplus	11+12	287	326	526	482	549	487	420	407	339	267	279	731	626	548	473	386	300	41

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System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K23/Gas

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT	245	245	245	490	490	490	735	735	980	980	980	980	980	980	980	980	1 225	1 225	
CCGT																			
2 Total New Thermal	245	245	245	490	490	490	735	735	980	980	980	980	1 337	1 337	1 337	1 337	1 582	1 582	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	875	875	875	1 120	1 120	1 120	1 365	1 365	1 610	1 610	1 610	1 967	1 967	1 967	1 967	2 212	2 212	
Base Supply Power Resources																			
Existing Hydro	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
Bipole III Reduced Losses	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	
5 Total Base Supply Power Resources		5 741																	
6 Total Power Resources	4+5	6 616	6 616	6 616	6 861	6 861	6 861	7 106	7 106	7 351	7 351	7 351	7 708	7 708	7 708	7 708	7 953	7 953	
Peak Demand																			
2013 Base Load Forecast	5 886	5 959	6 032	6 105	6 178	6 251	6 324	6 396	6 469	6 542	6 615	6 688	6 761	6 834	6 907	6 979	7 052	7 125	
Less: 2013 Base DSM Forecast	- 160	- 159	- 153	- 147	- 141	- 136	- 131	- 124	- 117	- 111	- 105	- 100	- 100	- 100	- 100	- 100	- 100	- 100	
7 Manitoba Net Load		5 726	5 800	5 879	5 958	6 037	6 115	6 193	6 272	6 352	6 431	6 510	6 588	6 661	6 734	6 807	6 879	6 952	7 025
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	5 726	5 800	5 879	5 958	6 037	6 115	6 193	6 272	6 352	6 431	6 510	6 588	6 661	6 734	6 807	6 879	6 952	7 025
10 Reserves		687	696	705	715	724	734	743	753	762	772	781	791	799	808	817	826	834	843
11 System Surplus	6-9-10	203	120	32	188	100	12	170	81	237	148	60	329	248	166	84	3	167	85
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	203	120	32	188	100	12	170	81	237	148	60	329	248	166	84	3	167	85

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K23/Gas

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
493																			
2 Total New Thermal																			
493																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 914	21 912	21 911	21 899	21 888	21 880	21 862	21 854	21 846	21 838	21 838	21 828	21 818	21 818	21 808	21 798	21 798	21 788	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	
Proposed Imports																			
Hydro Adjustment	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	
Market Purchases	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	
Existing Wind	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	493	493	493	
Pointe du Bois Rebuild	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Bipole III Reduced Losses																			
6 Total Base Supply Power Resources	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 034	30 026	30 018	30 018	30 020	29 571	29 472	29 462	29 452	29 452	29 266	
7 Total Power Resources	5+6	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 034	30 026	30 018	30 511	32 994	32 574	32 475	32 465	32 455	32 269	
Manitoba Domestic Load																			
2013 Base Load Forecast	25 239	25 676	26 013	26 322	26 606	27 003	27 398	27 789	28 197	28 605	29 013	29 418	29 822	30 225	30 625	31 041	31 453	31 863	
Construction Power - Hydro																			
22	22	40	50	70	80	60	25												
Less: 2013 Base DSM Forecast	- 108	- 204	- 288	- 362	- 433	- 501	- 548	- 588	- 628	- 667	- 696	- 712	- 728	- 751	- 773	- 755	- 736	- 722	
8 Manitoba Net Load	25 131	25 472	25 725	25 960	26 195	26 524	26 890	27 251	27 639	28 018	28 377	28 731	29 094	29 478	29 864	30 302	30 745	31 149	
Contracted Exports	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	3 156	3 156	2 200	2 056	2 056	2 056	1 846	1 804	350	307	307	307	307	145					
10 Total Energy Demand	8+9	28 287	28 628	27 925	28 016	28 251	28 580	28 946	29 097	29 443	29 822	30 181	30 535	29 444	29 785	30 171	30 609	31 052	31 294
11 System Surplus	7-10	1 924	1 614	2 727	2 684	2 628	2 291	1 688	937	583	196	330	2 459	3 130	2 690	2 294	1 846	1 403	975
Less : Brandon Unit 5																			
- 811	- 811	- 811	- 811	- 811	- 811	- 592													
13 Adverse Water																			
- 309	- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
Exportable Surplus	11+12+13	1 113	803	1 607	1 503	1 447	1 110	726	567	213									

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K23/Gas

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
Keeyask																			
1 Total New Hydro	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
New Thermal																			
SCGT	1 857	1 857	1 857	3 714	3 714	3 714	5 571	5 571	7 428	7 428	7 428	7 428	7 428	7 428	7 428	7 428	9 285	9 285	
CCGT																			
2 Total New Thermal	1 857	1 857	1 857	3 714	3 714	3 714	5 571	5 571	7 428	7 428	7 428	7 428	10 134	11 991	11 991				
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
4 Total New Power Resources	1+2+3+4	4 860	4 860	4 860	6 717	6 717	6 717	8 574	8 574	10 431	10 431	10 431	13 137	14 994	14 994				
Base Supply Power Resources																			
Existing Hydro	21 788	21 778	21 768	21 768	21 758	21 748	21 748	21 738	21 738	21 728	21 718	21 718	21 708	21 698	21 698	21 688	21 678	21 678	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas																			
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	
6 Total Base Supply Power Resources		29 286	29 276	29 266	29 266	29 256	29 246	29 246	29 236	29 236	29 226	29 216	29 216	29 206	29 196	29 196	29 186	29 176	29 176
7 Total Power Resources	5+6	34 146	34 136	34 126	35 983	35 973	35 963	37 820	37 810	39 667	39 657	39 647	42 353	42 343	42 333	42 323	44 170	44 170	44 170
Manitoba Domestic Load																			
2013 Base Load Forecast	32 265	32 667	33 069	33 471	33 873	34 274	34 676	35 078	35 480	35 882	36 283	36 685	37 087	37 489	37 890	38 292	38 694	39 096	
Construction Power - Hydro	8	4																	
Less: 2013 Base DSM Forecast	- 712	- 701	- 665	- 636	- 609	- 585	- 562	- 535	- 508	- 484	- 465	- 446	- 446	- 446	- 446	- 446	- 446	- 446	
8 Manitoba Net Load		31 561	31 970	32 404	32 835	33 264	33 689	34 114	34 543	34 972	35 398	35 818	36 239	36 641	37 043	37 444	37 846	38 248	38 650
Contracted Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports		145																	
10 Total Energy Demand	8+9	31 706	32 115	32 549	32 980	33 409	33 834	34 259	34 688	35 117	35 543	35 963	36 384	36 786	37 188	37 589	37 991	38 393	38 795
11 System Surplus	7-10	2 440	2 021	1 577	3 003	2 564	2 129	3 561	3 122	4 550	4 114	3 684	5 969	5 557	5 145	4 744	4 332	5 777	5 375
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	2 440	2 021	1 577	3 003	2 564	2 129	3 561	3 122	4 550	4 114	3 684	5 969	5					

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
All Gas**

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 124	5 127	5 164	5 167	5 194	5 197	5 200	5 203	5 206	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105													
Selkirk Gas		66	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports		220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																		45	
Bipole III Reduced Losses						86	86	86	86	86	86	86	86	86	86	86	86	86	
5 Total Base Supply Power Resources	6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 306	6 309	6 312	6 312	6 312	5 927	5 752					
6 Total Power Resources	4+5	6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 306	6 309	6 312	6 557	6 557	6 172	6 172	6 172	6 417	6 487	
Peak Demand																			
2013 Base Load Forecast	4 601	4 680	4 742	4 801	4 857	4 930	5 002	5 074	5 147	5 222	5 296	5 369	5 443	5 516	5 588	5 664	5 739	5 813	
Less: 2013 Base DSM Forecast	- 22	- 43	- 62	- 79	- 94	- 109	- 118	- 127	- 136	- 144	- 149	- 153	- 157	- 161	- 166	- 164	- 162	- 161	
7 Manitoba Net Load	4 579	4 637	4 680	4 722	4 763	4 821	4 884	4 947	5 011	5 078	5 147	5 216	5 286	5 355	5 422	5 500	5 577	5 652	
Contracted Exports	605	605	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	
Proposed Exports			55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
8 Total Exports	605	605	413	413	413	413	413	413	358										
9 Total Peak Demand	7+8	5 184	5 242	5 093	5 135	5 176	5 234	5 297	5 305	5 369	5 436	5 505	5 574	5 286	5 355	5 422	5 500	5 577	5 652
10 Reserves		483	510	562	567	572	579	586	594	601	609	618	626	634	643	651	660	669	678
11 System Surplus	6-9-10	392	431	631	587	654	592	420	407	339	267	434	357	252	174	99	12	171	157
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
Exportable Surplus	11+12	287	326	526	482	549	487	420	407	339	267	434	357	252	174	99	12	171	157

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
All Gas**

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT	735	735	735	735	735	980	980	980	980	980	980	980	1 225	1 225	1 225	1 470	1 470	1 470	
CCGT		357	357	357	357	357	357	357	714	714	714	714	714	714	714	714	714	714	
2 Total New Thermal	735	1 092	1 092	1 092	1 092	1 337	1 337	1 337	1 694	1 694	1 694	1 694	1 939	1 939	1 939	2 184	2 184	2 184	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	735	1 092	1 092	1 092	1 092	1 337	1 337	1 694	1 694	1 694	1 694	1 939	1 939	1 939	2 184	2 184	2 184	
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Selkirk Gas																			
Brandon Units 6-7 SCGT	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Bipole III Reduced Losses																			
5 Total Base Supply Power Resources	5 752	5 752	5 752	5 752	5 752	5 752	5 752	5 752	5 752	5 752	5 752	5 752	5 752	5 752	5 752	5 752	5 752	5 752	
6 Total Power Resources	4+5	6 487	6 844	6 844	6 844	7 089	7 089	7 089	7 446	7 446	7 446	7 446	7 691	7 691	7 691	7 936	7 936	7 936	
Peak Demand																			
2013 Base Load Forecast																			
Less: 2013 Base DSM Forecast	5 886	5 959	6 032	6 105	6 178	6 251	6 324	6 396	6 469	6 542	6 615	6 688	6 761	6 834	6 907	6 979	7 052	7 125	
7 Manitoba Net Load	- 160	- 159	- 153	- 147	- 141	- 136	- 131	- 124	- 117	- 111	- 105	- 100							
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	5 726	5 800	5 879	5 958	6 037	6 115	6 193	6 272	6 352	6 431	6 510	6 588	6 661	6 734	6 807	6 879	6 952	7 025
10 Reserves																			
11 System Surplus	6-9-10	687	696	705	715	724	734	743	753	762	772	781	791	799	808	817	826	834	843
12 Less: Brandon Unit 5		74	348	260	171	83	240	153	64	332	243	155	67	231	149	67	231	150	68
Exportable Surplus	11+12	74	348	260	171	83	240	153	64	332	243	155	67	231	149	67	231	150	68

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

All Gas

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 914	21 912	21 911	21 899	21 888	21 880	21 862	21 854	21 846	21 838	21 838	21 828	21 818	21 818	21 808	21 798	21 798	21 788	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	
Proposed Imports																			
Hydro Adjustment	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	
Market Purchases	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	
Existing Wind	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	493	493	493	
Pointe du Bois Rebuild	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Bipole III Reduced Losses																			
6 Total Base Supply Power Resources	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 034	30 026	30 018	30 018	30 008	29 560	29 461	29 451	29 441	29 441	29 254	
7 Total Power Resources	5+6	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 034	30 026	30 018	31 875	31 865	31 417	31 318	31 308	31 298	33 155	34 825
Manitoba Domestic Load																			
2013 Base Load Forecast	25 239	25 676	26 013	26 322	26 606	27 003	27 398	27 789	28 197	28 605	29 013	29 418	29 822	30 225	30 625	31 041	31 453	31 863	
Construction Power - Hydro																			
Less: 2013 Base DSM Forecast	- 108	- 204	- 288	- 362	- 433	- 501	- 548	- 588	- 628	- 667	- 696	- 712	- 728	- 751	- 773	- 755	- 736	- 722	
8 Manitoba Net Load	25 131	25 472	25 725	25 960	26 173	26 502	26 850	27 201	27 569	27 938	28 317	28 706	29 094	29 478	29 864	30 302	30 745	31 149	
Contracted Exports	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	3 156	3 156	2 200	2 056	2 056	2 056	2 056	1 846	1 804	1 804	1 804	1 804	350	307	307	307	307	145	
10 Total Energy Demand	8+9	28 287	28 628	27 925	28 016	28 229	28 558	28 906	29 047	29 373	29 742	30 121	30 510	29 444	29 785	30 171	30 609	31 052	31 294
11 System Surplus	7-10	1 924	1 614	2 727	2 684	2 650	2 313	1 728	987	653	276	1 754	1 355	1 973	1 533	1 137	689	2 103	3 531
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 592												
13 Adverse Water				- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
Exportable Surplus	11+12+13	1 113	803	1 607	1 503	1 469	1 132	766	617	283		1 384	985	1 912	1 533	1 137	689	2 103	3 531

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

All Gas

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT	5 571	5 571	5 571	5 571	5 571	7 428	7 428	7 428	7 428	7 428	7 428	7 428	9 285	9 285	11 142	11 142	11 142		
CCGT		2 706	2 706	2 706	2 706	2 706	2 706	2 706	5 412	5 412	5 412	5 412	5 412	5 412	5 412	5 412	5 412	5 412	
2 Total New Thermal	5 571	8 277	8 277	8 277	8 277	10 134	10 134	10 134	12 840	12 840	12 840	12 840	14 697	14 697	14 697	16 554	16 554	16 554	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4	5 571	8 277	8 277	8 277	8 277	10 134	10 134	10 134	12 840	12 840	12 840	12 840	14 697	14 697	14 697	16 554	16 554	16 554
Base Supply Power Resources																			
Existing Hydro		21 788	21 778	21 768	21 768	21 758	21 748	21 748	21 738	21 738	21 728	21 718	21 718	21 708	21 698	21 698	21 688	21 678	
Existing Thermal																			
Brandon Coal - Unit 5		953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas		2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases		3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind		771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild		150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses		190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	
6 Total Base Supply Power Resources		29 274	29 264	29 254	29 254	29 244	29 234	29 234	29 224	29 224	29 214	29 204	29 204	29 194	29 184	29 184	29 174	29 164	29 164
7 Total Power Resources	5+6	34 845	37 541	37 531	37 531	37 521	39 368	39 368	39 358	42 064	42 054	42 044	42 044	43 891	43 881	43 881	45 728	45 718	45 718
Manitoba Domestic Load																			
2013 Base Load Forecast		32 265	32 667	33 069	33 471	33 873	34 274	34 676	35 078	35 480	35 882	36 283	36 685	37 087	37 489	37 890	38 292	38 694	39 096
Construction Power - Hydro		8	4																
Less: 2013 Base DSM Forecast		- 712	- 701	- 665	- 636	- 609	- 585	- 562	- 535	- 508	- 484	- 465	- 446	- 446	- 446	- 446	- 446	- 446	- 446
8 Manitoba Net Load		31 561	31 970	32 404	32 835	33 264	33 689	34 114	34 543	34 972	35 398	35 818	36 239	36 641	37 043	37 444	37 846	38 248	38 650
Contracted Exports		145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports		145																	
10 Total Energy Demand	8+9	31 706	32 115	32 549	32 980	33 409	33 834	34 259	34 688	35 117	35 543	35 963	36 384	36 786	37 188	37 589	37 991	38 393	38 795
11 System Surplus	7-10	3 139	5 426	4 982	4 551	4 112	5 534	5 109	4 670	6 947	6 511	6 081	5 660	7 105	6 693	6 292	7 737	7 325	6 923
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	3 139	5 426	4 982	4 551	4 112	5 534	5 109	4 670	6 947	6 511	6 081	5 660	7 105	6 693	6 292	7 737	7 325	6 923

6. Manitoba Hydro Supply and Demand Tables

NFAT 2013 Update DSM Sensitivities

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K19/C26/750MW (WPS Sale & Inv) - 1.5x DSM

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	5 124	5 127	5 164	5 167	5 194	5 197	5 200	5 203	5 206	5 209	5 209	5 209	5 209	5 209	5 209	5 185	5 185	5 185	
Selkirk Gas	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Brandon Units 6-7 SCGT	66	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Contracted Imports	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Proposed Imports	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Pointe du Bois Rebuild	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Bipole III Reduced Losses	86	86	86	86	75	75	75	75	75	75	75	75	75	75	75	14	14	14	
5 Total Base Supply Power Resources	6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 295	6 298	6 301	6 301	6 301	5 916	5 916	5 855	5 831	5 831	5 656	
6 Total Power Resources	4+5	6 059	6 183	6 286	6 289	6 402	6 405	6 393	6 925	6 928	6 931	6 931	6 931	6 546	7 066	7 525	7 761	7 761	7 586
Peak Demand																			
2013 Base Load Forecast	4 601	4 680	4 742	4 801	4 857	4 930	5 002	5 074	5 147	5 222	5 296	5 369	5 443	5 516	5 588	5 664	5 739	5 813	
Less: 1.5x 2013 DSM Forecast	- 34	- 65	- 93	- 119	- 141	- 163	- 177	- 191	- 204	- 216	- 224	- 230	- 235	- 242	- 249	- 246	- 243	- 242	
7 Manitoba Net Load	4 567	4 615	4 649	4 682	4 716	4 767	4 825	4 883	4 943	5 006	5 072	5 139	5 208	5 274	5 339	5 418	5 496	5 571	
Contracted Exports	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	275	
Proposed Exports	119	174	174	174	174	174	174	119					220	330	330	330	330	330	
8 Total Exports	605	724	532	532	532	532	532	752	880	880	880	880	385	605	605	605	605	605	
9 Total Peak Demand	7+8	5 172	5 339	5 181	5 214	5 248	5 299	5 357	5 635	5 823	5 886	5 952	6 019	5 593	5 879	5 944	6 023	6 101	6 176
10 Reserves		482	508	558	562	566	572	579	586	593	601	609	617	625	633	641	650	659	669
11 System Surplus	6-9-10	405	336	547	513	588	534	457	704	512	444	370	295	328	554	940	1 088	1 001	741
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105											
Exportable Surplus	11+12	300	231	442	408	483	429	457	704	512	444	370	295	328	554	940	1 088	1 001	741

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation NFAT 2013 Update K19/C26/750MW (WPS Sale & Inv) - 1.5x DSM																			
Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	
New Thermal																			
SCGT																	245	245	245
CCGT																			
2 Total New Thermal																	245	245	245
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1 930	2 175	2 175	2 175														
Base Supply Power Resources																			
Existing Hydro	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Bipole III Reduced Losses	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
5 Total Base Supply Power Resources		5 656																	
6 Total Power Resources	4+5	7 586	7 831	7 831	7 831														
Peak Demand																			
2013 Base Load Forecast	5 886	5 959	6 032	6 105	6 178	6 251	6 324	6 396	6 469	6 542	6 615	6 688	6 761	6 834	6 907	6 979	7 052	7 125	
Less: 1.5x 2013 DSM Forecast	- 240	- 239	- 230	- 221	- 212	- 204	- 196	- 185	- 175	- 166	- 158	- 150	- 150	- 150	- 150	- 150	- 150	- 150	- 150
7 Manitoba Net Load		5 646	5 720	5 802	5 884	5 966	6 047	6 128	6 211	6 294	6 376	6 457	6 538	6 611	6 684	6 757	6 829	6 902	6 975
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	6 251	6 325	6 407	6 489	6 296	6 047	6 128	6 211	6 294	6 376	6 457	6 538	6 611	6 684	6 757	6 829	6 902	6 975
10 Reserves		678	686	696	706	716	726	735	745	755	765	775	785	793	802	811	820	828	837
11 System Surplus	6-9-10	657	575	483	391	574	813	723	630	537	445	354	263	182	100	18	182	101	19
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	657	575	483	391	574	813	723	630	537	445	354	263	182	100	18	182	101	19

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2013 Update**

K19/C26/750MW (WPS Sale & Inv) - 1.5x DSM

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
4 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 914	21 912	21 911	21 899	21 888	21 880	21 862	21 854	21 846	21 838	21 838	21 828	21 818	21 818	21 808	21 798	21 798	21 788	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	592											
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271					
Proposed Imports		781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	155	
Hydro Adjustment	340	373	784	844	844	844	844	844	844	844	844	844	844	406	307	307	307	70	
Market Purchases	363	338	583	493	493	493	493	957	1 050	1 050	1 050	1 050	2 417	1 946	1 426	1 352	1 352	2 133	
Existing Wind	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	60	
Pointe du Bois Rebuild																			
Bipole III Reduced Losses								190	190	190	202	202	202	202	202	133	133	133	
6 Total Base Supply Power Resources	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 510	30 595	30 587	30 587	30 577	30 128	29 287	28 688	28 604	28 604	28 417	
7 Total Power Resources	5+6	30 211	30 242	30 652	30 700	30 879	30 871	31 127	34 412	34 711	34 703	34 703	34 693	34 244	36 343	38 716	38 706	38 519	
Manitoba Domestic Load																			
2013 Base Load Forecast	25 239	25 676	26 013	26 322	26 606	27 003	27 398	27 789	28 197	28 605	29 013	29 418	29 822	30 225	30 625	31 041	31 453	31 863	
Construction Power - Hydro	22	22	40	50	70	90	75	45	30	50	55	80	100	94	42	21	28	8	
Less: 1.5x 2013 DSM Forecast	- 162	- 306	- 432	- 544	- 650	- 752	- 822	- 882	- 941	- 1 000	- 1 044	- 1 067	- 1 092	- 1 126	- 1 159	- 1 132	- 1 105	- 1 083	
8 Manitoba Net Load	25 099	25 392	25 621	25 828	26 026	26 341	26 651	26 952	27 286	27 655	28 024	28 431	28 830	29 193	29 508	29 930	30 376	30 788	
Contracted Exports	3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	4 314	2 031	1 887	1 472	1 389	1 389	
Proposed Exports		448	931	952	952	952	952	742	252	162	162	162	162	991	1 572	1 655	1 655	1 493	
Less: Adverse Water			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85					
9 Total Net Exports	3 156	3 604	2 737	2 594	2 594	2 594	2 594	3 420	3 954	3 963	3 963	3 963	2 108	2 878	3 044	3 044	2 882		
10 Total Energy Demand	8+9	28 255	28 996	28 358	28 422	28 620	28 935	29 245	30 372	31 240	31 618	31 987	32 394	30 938	32 071	32 552	32 974	33 420	33 670
11 System Surplus	7-10	1 956	1 246	2 294	2 278	2 259	1 936	1 882	4 040	3 471	3 085	2 716	2 299	3 306	4 272	6 164	5 732	5 286	4 849
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 592												
13 Adverse Water			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85					
Exportable Surplus	11+12+13	1 145	435	1 174	1 097	1 078	755	920	3 670	2 982	2 572	2 203	1 786	3 221	4 272	6 164	5 732	5 286	4 849

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2013 Update**

K19/C26/750MW (WPS Sale & Inv) - 1.5x DSM

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	
New Thermal																	1 857	1 857	1 857
SCGT																			
CCGT																			
2 Total New Thermal																	1 857	1 857	1 857
New Imports																			
Contracted	1 113	1 113	1 113	1 113	186														
Proposed	1 336	1 336	1 336	1 336	1 336	223													
3 Total New Imports	2 449	2 449	2 449	2 449	1 522	223													
New Wind																			
5 Total New Power Resources	1+2+3+4	10 102	10 102	10 102	10 102	9 175	7 876	7 653	9 510	9 510	9 510								
Base Supply Power Resources																			
Existing Hydro	21 788	21 778	21 768	21 768	21 758	21 748	21 748	21 738	21 738	21 728	21 718	21 718	21 708	21 698	21 698	21 688	21 678	21 678	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	2 288	2 288	2 288	2 288	3 216	3 380	3 397	3 442	3 486	3 530	3 573	3 616	3 656	3 696	3 736	3 776	3 816	3 857	
Existing Wind	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	
6 Total Base Supply Power Resources	28 437	28 427	28 417	28 417	29 335	29 489	29 506	29 541	29 585	29 619	29 652	29 695	29 725	29 755	29 795	29 825	29 855	29 896	
7 Total Power Resources	5+6	38 539	38 529	38 519	38 519	38 510	37 365	37 159	37 194	37 238	37 272	37 305	37 348	37 378	37 408	37 448	39 335	39 365	39 406
Manitoba Domestic Load																			
2013 Base Load Forecast	32 265	32 667	33 069	33 471	33 873	34 274	34 676	35 078	35 480	35 882	36 283	36 685	37 087	37 489	37 890	38 292	38 694	39 096	
Construction Power - Hydro	8	4																	
Less: 1.5x 2013 DSM Forecast	-1 068	-1 051	-998	-955	-913	-878	-843	-802	-762	-726	-697	-669	-669	-669	-669	-669	-669	-669	-669
8 Manitoba Net Load	31 205	31 620	32 071	32 516	32 960	33 396	33 833	34 276	34 718	35 156	35 586	36 016	36 418	36 820	37 221	37 623	38 025	38 427	
Contracted Exports	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports	1 493	1 493	1 493	1 493	1 493	249													
Less: Adverse Water																			
9 Total Net Exports	2 882	2 882	2 882	2 882	1 846	394	145												
10 Total Energy Demand	8+9	34 087	34 502	34 953	35 398	34 806	33 790	33 978	34 421	34 863	35 301	35 731	36 161	36 563	36 965	37 366	37 768	38 170	38 572
11 System Surplus	7-10	4 452	4 027	3 566	3 121	3 704	3 575	3 181	2 773	2 375	1 971	1 574	1 187	815	443	82	1 567	1 195	834
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	4 452	4 027	3 566															

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K19/C26/750MW (WPS Sale & Inv) - 4x DSM**

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31
Power Resources																		
New Power Resources																		
New Hydro																		
Conawapa																		
Keeyask																		
1 Total New Hydro						90	630	630	630	630	630	630	630	520	1 040	1 300	1 300	1 300
New Thermal																		
SCGT																		
CCGT																		
2 Total New Thermal						90	630	630	630	630	630	630	630	1 150	1 670	1 930	1 930	1 930
New Imports																		
Contracted																		
Proposed																		
3 Total New Imports																		
4 Total New Power Resources	1+2+3					90	630	630	630	630	630	630	630	1 150	1 670	1 930	1 930	1 930
Base Supply Power Resources																		
Existing Hydro																		
Existing Thermal																		
Brandon Coal - Unit 5																		
Selkirk Gas																		
Brandon Units 6-7 SCGT																		
Contracted Imports																		
Proposed Imports																		
Pointe du Bois Rebuild																		
Bipole III Reduced Losses																		
5 Total Base Supply Power Resources		6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 295	6 298	6 301	6 301	6 301	5 916	5 916	5 855	5 831	5 831
6 Total Power Resources	4+5	6 059	6 183	6 286	6 289	6 402	6 405	6 393	6 925	6 928	6 931	6 931	6 931	6 546	7 066	7 525	7 761	7 761
Peak Demand																		
2013 Base Load Forecast																		
Less: 4x 2013 DSM Forecast																		
7 Manitoba Net Load		4 511	4 506	4 493	4 484	4 480	4 494	4 529	4 566	4 604	4 645	4 698	4 755	4 816	4 870	4 924	5 008	5 090
Contracted Exports																		
Proposed Exports																		
8 Total Exports		605	724	532	532	532	532	532	752	880	880	880	880	385	275	275	275	275
9 Total Peak Demand	7+8	5 116	5 230	5 025	5 016	5 012	5 026	5 061	5 318	5 484	5 525	5 578	5 635	5 201	5 475	5 529	5 613	5 695
10 Reserves		475	494	539	538	538	539	543	548	553	557	564	571	578	584	591	601	611
11 System Surplus	6-9-10	468	459	722	735	852	840	789	1 059	891	849	789	725	767	1 007	1 405	1 547	1 455
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
Exportable Surplus	11+12	363	354	617	630	747	735	789	1 059	891	849	789	725	767	1 007	1 405	1 547	1 455

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K19/C26/750MW (WPS Sale & Inv) - 4x DSM**

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	1 930	
New Thermal																			
SCGT																		55	
CCGT																			
2 Total New Thermal																		55	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1 930	1 985																
Base Supply Power Resources																			
Existing Hydro	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
Bipole III Reduced Losses	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	
5 Total Base Supply Power Resources		5 656																	
6 Total Power Resources	4+5	7 586	7 641																
Peak Demand																			
2013 Base Load Forecast	5 886	5 959	6 032	6 105	6 178	6 251	6 324	6 396	6 469	6 542	6 615	6 688	6 761	6 834	6 907	6 979	7 052	7 125	
Less: 4x 2013 DSM Forecast	- 641	- 637	- 612	- 588	- 566	- 544	- 523	- 494	- 467	- 442	- 420	- 399	- 399	- 399	- 399	- 399	- 399	- 399	
7 Manitoba Net Load	5 245	5 322	5 420	5 517	5 612	5 707	5 801	5 902	6 002	6 100	6 195	6 289	6 362	6 435	6 508	6 580	6 653	6 726	
Contracted Exports	275	275	275	275															
Proposed Exports	330	330	330	330	330														
8 Total Exports		605	605	605	605	330													
9 Total Peak Demand	7+8	5 850	5 927	6 025	6 122	5 942	5 707	5 801	5 902	6 002	6 100	6 195	6 289	6 362	6 435	6 508	6 580	6 653	6 726
10 Reserves		629	639	650	662	673	685	696	708	720	732	743	755	763	772	781	790	798	807
11 System Surplus	6-9-10	1 107	1 020	911	802	971	1 194	1 089	976	864	754	648	542	461	379	297	216	135	108
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	1 107	1 020	911	802	971	1 194	1 089	976	864	754	648	542	461	379	297	216	135	108

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K19/C26/750MW (WPS Sale & Inv) - 4x DSM

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
493	2 974	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003		
1 Total New Hydro	493	2 974	3 003	5 201	7 653														
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports	928	1 113																	
New Wind																			
4 Total New Power Resources	493	3 902	4 116	7 056	10 028	10 102	10 102	10 102	10 102										
5 Total Power Resources	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 510	30 595	30 587	30 587	30 577	30 068	29 287	28 688	28 604	28 604	28 417	
6 Total Base Supply Power Resources	30 211	30 242	30 652	30 700	30 879	30 871	31 127	34 412	34 711	34 703	34 703	34 693	34 184	36 343	38 716	38 706	38 706	38 519	
Manitoba Domestic Load																			
2013 Base Load Forecast	25 239	25 676	26 013	26 322	26 606	27 003	27 398	27 789	28 197	28 605	29 013	29 418	29 822	30 225	30 625	31 041	31 453	31 863	
Construction Power - Hydro	22	22	40	50	70	90	75	45	30	50	55	80	100	94	42	21	28	8	
Less: 4x 2013 DSM Forecast	- 433	- 815	-1 152	-1 450	-1 733	-2 005	-2 192	-2 351	-2 510	-2 667	-2 784	-2 846	-2 911	-3 003	-3 090	-3 018	-2 946	-2 889	
8 Manitoba Net Load	24 828	24 883	24 901	24 922	24 943	25 088	25 281	25 483	25 717	25 988	26 284	26 652	27 011	27 316	27 577	28 044	28 535	28 982	
Contracted Exports	3 156	3 156	2 115	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	4 314	2 031	1 887	1 472	1 389	1 389	1 389	
Proposed Exports		448	931	952	952	952	742	252	162	162	162	162	991	1 572	1 655	1 655	1 493		
Less: Adverse Water		- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85						
9 Total Net Exports	3 156	3 604	2 737	2 594	2 594	2 594	3 420	3 954	3 963	3 963	3 963	2 108	2 878	3 044	3 044	3 044	2 882		
10 Total Energy Demand	8+9	27 984	28 487	27 638	27 516	27 537	27 682	27 875	28 903	29 671	29 951	30 247	30 615	29 119	30 194	30 621	31 088	31 579	31 864
11 System Surplus	7-10	2 227	1 755	3 014	3 184	3 342	3 189	3 252	5 509	5 040	4 752	4 456	4 078	5 065	6 149	8 095	7 618	7 127	6 655
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 592												
13 Adverse Water			- 309	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85						
Exportable Surplus	11+12+13	1 416	944	1 894	2 003	2 161	2 008	2 290	5 139	4 551	4 239	3 943	3 565	4 980	6 149	8 095	7 618	7 127	6 655

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K19/C26/750MW (WPS Sale & Inv) - 4x DSM

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	7 653	
New Thermal																		426	
SCGT																			
CCGT																			
2 Total New Thermal																		426	
New Imports																			
Contracted	1 113	1 113	1 113	1 113	186														
Proposed	1 336	1 336	1 336	1 336	1 336														
3 Total New Imports	2 449	2 449	2 449	2 449	1 522	223													
New Wind																			
5 Total New Power Resources	10 102	10 102	10 102	10 102	9 175	7 876	7 653	8 079											
Base Supply Power Resources																			
Existing Hydro	21 788	21 778	21 768	21 768	21 758	21 748	21 748	21 738	21 738	21 728	21 718	21 718	21 708	21 698	21 698	21 688	21 678	21 678	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	2 288	2 288	2 288	2 288	3 216	3 234	3 257	3 308	3 359	3 409	3 456	3 504	3 544	3 584	3 625	3 665	3 705	3 745	
Existing Wind	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	
6 Total Base Supply Power Resources	28 437	28 427	28 417	28 417	29 335	29 343	29 366	29 407	29 458	29 498	29 535	29 583	29 613	29 643	29 684	29 714	29 744	29 784	
7 Total Power Resources	5+6	38 539	38 529	38 519	38 519	38 510	37 219	37 019	37 060	37 111	37 151	37 188	37 236	37 266	37 296	37 337	37 367	37 397	37 863
Manitoba Domestic Load																			
2013 Base Load Forecast	32 265	32 667	33 069	33 471	33 873	34 274	34 676	35 078	35 480	35 882	36 283	36 685	37 087	37 489	37 890	38 292	38 694	39 096	
Construction Power - Hydro	8	4																	
Less: 4x 2013 DSM Forecast	-2 847	-2 803	-2 661	-2 546	-2 434	-2 341	-2 249	-2 138	-2 031	-1 936	-1 859	-1 785	-1 785	-1 785	-1 785	-1 785	-1 785	-1 785	
8 Manitoba Net Load	29 426	29 868	30 408	30 925	31 439	31 933	32 427	32 940	33 449	33 946	34 424	34 900	35 302	35 704	36 105	36 507	36 909	37 311	
Contracted Exports	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports	1 493	1 493	1 493	1 493	1 493	249													
Less: Adverse Water																			
9 Total Net Exports	2 882	2 882	2 882	2 882	1 846	394	145												
10 Total Energy Demand	8+9	32 308	32 750	33 290	33 807	33 285	32 327	32 572	33 085	33 594	34 091	34 569	35 045	35 447	35 849	36 250	36 652	37 054	37 456
11 System Surplus	7-10	6 231	5 779	5 229	4 712	5 225	4 892	4 447	3 975	3 517	3 060	2 619	2 191	1 819	1 447	1 087	715	343	407
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	6 231	5 779	5 229	4 712	5 225	4 892	4 447	3 975	3 517	3 0								

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K19/C30/750MW (WPS Sale & Inv) - 4x DSM**

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																		520	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																	1 150	
Base Supply Power Resources																			
Existing Hydro	5 124	5 127	5 164	5 167	5 194	5 197	5 200	5 203	5 206	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105													
Selkirk Gas	66	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports		220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																		45	
Bipole III Reduced Losses							86	86	86	75	75	75	75	75	75	75	75	75	
5 Total Base Supply Power Resources	6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 295	6 298	6 301	6 301	6 301	5 916	5 741					
6 Total Power Resources	4+5	6 059	6 183	6 286	6 289	6 402	6 405	6 393	6 925	6 928	6 931	6 931	6 546	6 891					
Peak Demand																			
2013 Base Load Forecast	4 601	4 680	4 742	4 801	4 857	4 930	5 002	5 074	5 147	5 222	5 296	5 369	5 443	5 516	5 588	5 664	5 739	5 813	
Less: 4x 2013 DSM Forecast	- 90	- 174	- 249	- 317	- 377	- 436	- 473	- 508	- 543	- 577	- 598	- 614	- 627	- 646	- 664	- 649	- 645		
7 Manitoba Net Load	4 511	4 506	4 493	4 484	4 480	4 494	4 529	4 566	4 604	4 645	4 698	4 755	4 816	4 870	4 924	5 008	5 090	5 168	
Contracted Exports	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	275	
Proposed Exports		119	174	174	174	174	174	119					220	330	330	330	330	330	
8 Total Exports	605	724	532	532	532	532	532	752	880	880	880	880	385	605	605	605	605	605	
9 Total Peak Demand	7+8	5 116	5 230	5 025	5 016	5 012	5 026	5 061	5 318	5 484	5 525	5 578	5 635	5 201	5 475	5 529	5 613	5 695	5 773
10 Reserves		475	494	539	538	538	539	543	548	553	557	564	571	578	584	591	601	611	620
11 System Surplus	6-9-10	468	459	722	735	852	840	789	1 059	891	849	789	725	767	487	426	332	240	498
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105											
Exportable Surplus	11+12	363	354	617	630	747	735	789	1 059	891	849	789	725	767	487	426	332	240	498

Date: August 16, 2013

**System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K19/C30/750MW (WPS Sale & Inv) - 4x DSM**

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa	1 040	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	1 300	
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	1 670	1 930																	
New Thermal																			
SCGT																		55	
CCGT																			
2 Total New Thermal																		55	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	1 670	1 930	1 985															
Base Supply Power Resources																			
Existing Hydro	5 209	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	5 185	
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
Bipole III Reduced Losses	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	
5 Total Base Supply Power Resources		5 680	5 656																
6 Total Power Resources	4+5	7 350	7 586	7 641															
Peak Demand																			
2013 Base Load Forecast	5 886	5 959	6 032	6 105	6 178	6 251	6 324	6 396	6 469	6 542	6 615	6 688	6 761	6 834	6 907	6 979	7 052	7 125	
Less: 4x 2013 DSM Forecast	- 641	- 637	- 612	- 588	- 566	- 544	- 523	- 494	- 467	- 442	- 420	- 399	- 399	- 399	- 399	- 399	- 399	- 399	
7 Manitoba Net Load	5 245	5 322	5 420	5 517	5 612	5 707	5 801	5 902	6 002	6 100	6 195	6 289	6 362	6 435	6 508	6 580	6 653	6 726	
Contracted Exports	275	275	275	275															
Proposed Exports	330	330	330	330	330														
8 Total Exports		605	605	605	605	330													
9 Total Peak Demand	7+8	5 850	5 927	6 025	6 122	5 942	5 707	5 801	5 902	6 002	6 100	6 195	6 289	6 362	6 435	6 508	6 580	6 653	6 726
10 Reserves		629	639	650	662	673	685	696	708	720	732	743	755	763	772	781	790	798	807
11 System Surplus	6-9-10	871	1 020	911	802	971	1 194	1 089	976	864	754	648	542	461	379	297	216	135	108
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	871	1 020	911	802	971	1 194	1 089	976	864	754	648	542	461	379	297	216	135	108

Date: August 16, 2013

**System Firm Energy Demand and Dependable Resources (GWh) @ generation
NFAT 2013 Update**

K19/C30/750MW (WPS Sale & Inv) - 4x DSM

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 914	21 912	21 911	21 899	21 888	21 880	21 862	21 854	21 846	21 838	21 838	21 828	21 818	21 818	21 808	21 798	21 798	21 788	
Selkirk Gas	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Brandon Units 6-7 SCGT	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Contracted Imports	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Proposed Imports	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	
Hydro Adjustment	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	
Market Purchases	781	373	784	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	
Existing Wind	340	338	583	493	493	493	493	493	493	493	493	493	493	493	493	493	493	493	
Pointe du Bois Rebuild	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	493	493	493	
Bipole III Reduced Losses	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
6 Total Base Supply Power Resources	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 510	30 595	30 587	30 587	30 577	30 061	29 287	28 757	28 673	28 673	28 486	
7 Total Power Resources	5+6	30 211	30 242	30 652	30 700	30 879	30 871	31 127	34 412	34 711	34 703	34 703	34 693	34 177	34 145	34 135	34 125	36 136	
Manitoba Domestic Load																			
2013 Base Load Forecast																			
Construction Power - Hydro	25 239	25 676	26 013	26 322	26 606	27 003	27 398	27 789	28 197	28 605	29 013	29 418	29 822	30 225	30 625	31 041	31 453	31 863	
Less: 4x 2013 DSM Forecast	22	22	40	50	70	80	60	25		10	15	20	30	54	67	96	128	98	
8 Manitoba Net Load	- 433	- 815	-1 152	-1 450	-1 733	-2 005	-2 192	-2 351	-2 510	-2 667	-2 784	-2 846	-2 911	-3 003	-3 090	-3 018	-2 946	-2 889	
8 Manitoba Net Load	24 828	24 883	24 901	24 922	24 943	25 078	25 266	25 463	25 687	25 948	26 244	26 592	26 941	27 276	27 602	28 119	28 635	29 072	
Contracted Exports																			
3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	4 314	2 031	1 887	1 472	1 389	1 389	1 389	
Proposed Exports																			
448	448	931	952	952	952	952	742	252	162	162	162	162	991	1 572	1 655	1 655	1 493		
Less: Adverse Water																			
9 Total Net Exports	- 309	- 370	- 489	- 513	- 513	- 513	- 85												
10 Total Energy Demand	8+9	27 984	28 487	27 638	27 516	27 537	27 672	27 860	28 883	29 641	29 911	30 207	30 555	29 049	30 154	30 646	31 163	31 679	31 954
11 System Surplus	7-10	2 227	1 755	3 014	3 184	3 342	3 199	3 267	5 529	5 070	4 792	4 496	4 138	5 128	3 991	3 489	2 962	2 446	4 182
12 Less : Brandon Unit 5		- 811	- 592																
13 Adverse Water																			
Exportable Surplus	11+12+13	1 416	944	1 894	2 003	2 161	2 018	2 305	5 159	4 581	4 279	3 983	3 625	5 04					

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K19/C30/750MW (WPS Sale & Inv) - 4x DSM

Fiscal Year		2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																				
New Power Resources																				
New Hydro																				
Conawapa		4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	4 650	
Keeyask		3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	1+2+3+4	7 653																		
New Thermal																				426
SCGT																				426
2 Total New Thermal	1+2+3+4																			426
New Imports																				426
Contracted		1 113	1 113	1 113	1 113	186														
Proposed		1 336	1 336	1 336	1 336	1 336														
3 Total New Imports	1+2+3+4	2 449	2 449	2 449	2 449	1 522	223													
4 New Wind	1+2+3+4																			
5 Total New Power Resources	1+2+3+4	10 102	10 102	10 102	10 102	9 175	7 876	7 653	8 079											
Base Supply Power Resources																				
Existing Hydro		21 788	21 778	21 768	21 768	21 758	21 748	21 748	21 738	21 738	21 728	21 718	21 718	21 708	21 698	21 698	21 688	21 678	21 678	
Existing Thermal																				
Brandon Coal - Unit 5																				
Selkirk Gas		953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953
Brandon Units 6-7 SCGT		2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354
Contracted Imports																				
Proposed Imports																				
Hydro Adjustment																				
Market Purchases		2 288	2 288	2 288	2 288	3 216	3 234	3 257	3 308	3 359	3 409	3 456	3 504	3 544	3 584	3 625	3 665	3 705	3 745	
Existing Wind		771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild		150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses		133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	
6 Total Base Supply Power Resources	1+2+3+4	28 437	28 427	28 417	28 417	29 335	29 343	29 366	29 407	29 458	29 498	29 535	29 583	29 613	29 643	29 684	29 714	29 744	29 784	
7 Total Power Resources	5+6	38 539	38 529	38 519	38 519	38 510	37 219	37 019	37 060	37 111	37 151	37 188	37 236	37 266	37 296	37 337	37 367	37 397	37 863	
Manitoba Domestic Load																				
2013 Base Load Forecast		32 265	32 667	33 069	33 471	33 873	34 274	34 676	35 078	35 480	35 882	36 283	36 685	37 087	37 489	37 890	38 292	38 694	39 096	
Construction Power - Hydro		38	9																	
Less: 4x 2013 DSM Forecast		-2 847	-2 803	-2 661	-2 546	-2 434	-2 341	-2 249	-2 138	-2 031	-1 936	-1 859	-1 785	-1 785	-1 785	-1 785	-1 785	-1 785	-1 785	-1 785
8 Manitoba Net Load	1+2+3+4	29 456	29 873	30 408	30 925	31 439	31 933	32 427	32 940	33 449	33 946	34 424	34 900	35 302	35 704	36 105	36 507	36 909	37 311	
Contracted Exports																				
Proposed Exports																				
Less: Adverse Water																				
9 Total Net Exports	1+2+3+4	2 882	2 882																	

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K19/Gas30/250MW – 1.5x DSM

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro								90	630	630	630	630	630	630	630	630	630	630	
New Thermal									90	630	630	630	630	630	630	630	630	630	
SCGT																		245	
CCGT																			
2 Total New Thermal																		245	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3							90	630	630	630	630	630	630	630	630	630	875	
Base Supply Power Resources																			
Existing Hydro		5 124	5 127	5 164	5 167	5 194	5 197	5 200	5 203	5 206	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Existing Thermal																			
Brandon Coal - Unit 5		105	105	105	105	105	105												
Selkirk Gas			66	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT		280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports		550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports			220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																		45	
Bipole III Reduced Losses								86	86	86	75	75	75	75	75	75	75	75	
5 Total Base Supply Power Resources		6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 295	6 298	6 301	6 301	6 301	5 916	5 916	5 916	5 916	5 741	
6 Total Power Resources	4+5	6 059	6 183	6 286	6 289	6 402	6 405	6 393	6 925	6 928	6 931	6 931	6 931	6 546	6 546	6 546	6 546	6 616	
Peak Demand																			
2013 Base Load Forecast		4 601	4 680	4 742	4 801	4 857	4 930	5 002	5 074	5 147	5 222	5 296	5 369	5 443	5 516	5 588	5 664	5 739	5 813
Less: 1.5x 2013 DSM Forecast		- 34	- 65	- 93	- 119	- 141	- 163	- 177	- 191	- 204	- 216	- 224	- 230	- 235	- 242	- 249	- 246	- 243	- 242
7 Manitoba Net Load		4 567	4 615	4 649	4 682	4 716	4 767	4 825	4 883	4 943	5 006	5 072	5 139	5 208	5 274	5 339	5 418	5 496	5 571
Contracted Exports		605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	275
Proposed Exports			55	55	55	55	55	55											
8 Total Exports		605	605	413	413	413	413	413	633	880	880	880	880	385	385	275	275	275	275
9 Total Peak Demand	7+8	5 172	5 220	5 062	5 095	5 129	5 180	5 238	5 516	5 823	5 886	5 952	6 019	5 593	5 659	5 614	5 693	5 771	5 846
10 Reserves		482	508	558	562	566	572	579	586	593	601	609	617	625	633	641	650	659	669
11 System Surplus	6-9-10	405	455	666	632	707	653	576	823	512	444	370	295	328	254	291	203	116	101
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105											
Exportable Surplus	11+12	300	350	561	527	602	548	576	823	512	444	370	295	328	254	291	203	116	101

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K19/Gas30/250MW – 1.5x DSM

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT	245	490	490	735	735	735	735	735	735	980	980	980	980	980	980	980	1 225	1 225	
CCGT																	357	357	
2 Total New Thermal	245	490	490	735	735	735	735	735	735	980	980	980	980	980	980	980	357	357	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	875	1 120	1 120	1 365	1 610	1 610	1 610	1 967	1 967	1 967	1 967	2 212	2 212					
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Selkirk Gas																			
Brandon Units 6-7 SCGT	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild																			
Bipole III Reduced Losses	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
5 Total Base Supply Power Resources		5 741																	
6 Total Power Resources	4+5	6 616	6 861	6 861	7 106	7 351	7 351	7 351	7 708	7 708	7 708	7 708	7 953	7 953					
Peak Demand																			
2013 Base Load Forecast																			
Less: 1.5x 2013 DSM Forecast																			
7 Manitoba Net Load		5 886	5 959	6 032	6 105	6 178	6 251	6 324	6 396	6 469	6 542	6 615	6 688	6 761	6 834	6 907	6 979	7 052	7 125
Less: 240	- 240	- 239	- 230	- 221	- 212	- 204	- 196	- 185	- 175	- 166	- 158	- 150	- 150	- 150	- 150	- 150	- 150	- 150	- 150
7 Manitoba Net Load	5 646	5 720	5 802	5 884	5 966	6 047	6 128	6 211	6 294	6 376	6 457	6 538	6 611	6 684	6 757	6 829	6 902	6 975	
Contracted Exports																			
Proposed Exports																			
8 Total Exports		275	275	275	275														
9 Total Peak Demand	7+8	5 921	5 995	6 077	6 159	5 966	6 047	6 128	6 211	6 294	6 376	6 457	6 538	6 611	6 684	6 757	6 829	6 902	6 975
10 Reserves																			
11 System Surplus		678	686	696	706	716	726	735	745	755	765	775	785	793	802	811	820	828	837
6-9-10		17	180	88	241	424	333	243	150	57	210	119	28	304	222	140	59	223	141
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	17	180	88	241	424	333	243	150	57	210	119	28	304	222	140	59	223	141

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K19/Gas30/250MW - 1.5x DSM

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																		3 003	
New Thermal																		1 857	
SCGT																			
CCGT																			
2 Total New Thermal																		1 857	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																		223	
New Wind																			
5 Total New Power Resources	1+2+3+4																	5 083	
Base Supply Power Resources																			
Existing Hydro	21 914	21 912	21 911	21 899	21 888	21 880	21 862	21 854	21 846	21 838	21 838	21 828	21 818	21 818	21 808	21 798	21 798	21 788	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271	
Proposed Imports																		155	
Hydro Adjustment	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	
Market Purchases	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	844	844	70	
Existing Wind	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	493	493	2 913	
Pointe du Bois Rebuild	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	60	
Bipole III Reduced Losses																		202	
6 Total Base Supply Power Resources	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 046	30 038	30 030	30 030	30 020	29 571	29 472	29 462	29 452	29 452	29 266	
7 Total Power Resources	5+6	30 211	30 242	30 652	30 700	30 879	30 871	31 127	33 206	33 264	33 256	33 256	33 246	32 797	32 698	32 688	32 678	32 678	34 349
Manitoba Domestic Load																			
2013 Base Load Forecast	25 239	25 676	26 013	26 322	26 606	27 003	27 398	27 789	28 197	28 605	29 013	29 418	29 822	30 225	30 625	31 041	31 453	31 863	
Construction Power - Hydro	22	22	40	50	70	80	60	25							4	12	16	28	
Less: 1.5x 2013 DSM Forecast	- 162	- 306	- 432	- 544	- 650	- 752	- 822	- 882	- 941	- 1 000	- 1 044	- 1 067	- 1 092	- 1 126	- 1 159	- 1 132	- 1 105	- 1 083	
8 Manitoba Net Load	25 099	25 392	25 621	25 828	26 026	26 331	26 636	26 932	27 256	27 605	27 969	28 351	28 730	29 103	29 478	29 925	30 376	30 788	
Contracted Exports	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	4 314	2 031	1 887	1 472	1 389	
Proposed Exports																		1 389	
Less: Adverse Water																		162	
9 Total Net Exports	3 156	3 156	2 200	2 056	2 056	2 056	2 056	2 882	3 864	3 963	3 963	3 963	2 108	2 049	1 634	1 551	1 551	1 389	
10 Total Energy Demand	8+9	28 255	28 548	27 821	27 884	28 082	28 387	28 692	29 814	31 120	31 568	31 932	32 314	30 838	31 152	31 112	31 476	31 927	32 177
11 System Surplus	7-10	1 956	1 694	2 831	2 816	2 797	2 484	2 435	3 392	2 144	1 688	1 324	932	1 959	1 546	1 576	1 202	751	2 172
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 592												
13 Adverse Water																			
Exportable Surplus	11+12+13	1 145	883	1 711	1 635	1 616	1 303	1 473	3 022	1 655	1 175	811	419	1 874	1 546	1 576	1 202	751	2 172

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K19/Gas30/250MW - 1.5x DSM

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49		
Power Resources																				
New Power Resources																				
New Hydro																				
Conawapa	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003		
Keeyask																				
1 Total New Hydro	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003		
New Thermal																				
SCGT	1 857	3 714	3 714	5 571	5 571	5 571	5 571	5 571	5 571	7 428	7 428	7 428	7 428	7 428	7 428	7 428	9 285	9 285		
CCGT																				
2 Total New Thermal	1 857	3 714	3 714	5 571	7 428	7 428	7 428	7 428	7 428	10 134	10 134	10 134	11 991	11 991						
New Imports																				
Contracted	223	223	223	223	223	223	223	223	223											
Proposed																				
3 Total New Imports	223	223	223	223	223	223	223	223	223											
New Wind																				
4 Total New Power Resources	5 083	6 940	6 940	8 797	8 611	8 574	8 574	8 574	8 574	10 431	10 431	10 431	13 137	13 137	13 137	13 137	14 994	14 994		
5 Total Power Resources	1+2+3+4	5 083	6 940	6 940	8 797	8 611	8 574	8 574	8 574	10 431	10 431	10 431	13 137	13 137	13 137	13 137	14 994	14 994		
Base Supply Power Resources																				
Existing Hydro	21 788	21 778	21 768	21 768	21 758	21 748	21 748	21 738	21 738	21 728	21 718	21 718	21 708	21 698	21 698	21 688	21 678	21 678		
Existing Thermal																				
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																				
Contracted Imports																				
Proposed Imports																				
Hydro Adjustment																				
Market Purchases	3 068	3 068	3 068	3 068	3 253	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290	3 290		
Existing Wind	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	
6 Total Base Supply Power Resources	29 286	29 276	29 266	29 266	29 441	29 468	29 468	29 458	29 458	29 448	29 438	29 438	29 428	29 418	29 418	29 408	29 398	29 398		
7 Total Power Resources	5+6	34 369	36 216	36 206	38 063	38 052	38 042	38 042	38 032	38 032	39 879	39 869	39 869	42 565	42 555	42 545	44 392	44 392		
Manitoba Domestic Load																				
2013 Base Load Forecast	32 265	32 667	33 069	33 471	33 873	34 274	34 676	35 078	35 480	35 882	36 283	36 685	37 087	37 489	37 890	38 292	38 694	39 096		
Construction Power - Hydro	8	4																		
Less: 1.5x 2013 DSM Forecast	-1 068	-1 051	-998	-955	-913	-878	-843	-802	-762	-726	-697	-669	-669	-669	-669	-669	-669	-669		
8 Manitoba Net Load	31 205	31 620	32 071	32 516	32 960	33 396	33 833	34 276	34 718	35 156	35 586	36 016	36 418	36 820	37 221	37 623	38 025	38 427		
Contracted Exports	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	145		
Proposed Exports																				
Less: Adverse Water																				
9 Total Net Exports	1 389	1 389	1 389	1 389	353	145	145	145	145	145	145	145	145	145	145	145	145	145		
10 Total Energy Demand	8+9	32 594	33 009	33 460	33 905	33 313	33 541	33 978	34 421	34 863	35 301	35 731	36 161	36 563	36 965	37 366	37 768	38 170	38 572	
11 System Surplus	7-10	1 775	3 207	2 746	4 158	4 739	4 501	4 064	3 611	3 169 </td										

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K19/Gas34/250 MW – 4x DSM

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																		
Base Supply Power Resources																			
Existing Hydro	5 124	5 127	5 164	5 167	5 194	5 197	5 200	5 203	5 206	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas		66	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports		220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																		45	
Bipole III Reduced Losses							86	86	86	75	75	75	75	75	75	75	75	75	
5 Total Base Supply Power Resources		6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 295	6 298	6 301	6 301	6 301	5 916	5 916	5 916	5 916	5 741	
6 Total Power Resources	4+5	6 059	6 183	6 286	6 289	6 402	6 405	6 393	6 925	6 928	6 931	6 931	6 931	6 546	6 546	6 546	6 546	6 371	
Peak Demand																			
2013 Base Load Forecast	4 601	4 680	4 742	4 801	4 857	4 930	5 002	5 074	5 147	5 222	5 296	5 369	5 443	5 516	5 588	5 664	5 739	5 813	
Less: 4x 2013 DSM Forecast	- 90	- 174	- 249	- 317	- 377	- 436	- 473	- 508	- 543	- 577	- 598	- 614	- 627	- 646	- 664	- 656	- 649	- 645	
7 Manitoba Net Load		4 511	4 506	4 493	4 484	4 480	4 494	4 529	4 566	4 604	4 645	4 698	4 755	4 816	4 870	4 924	5 008	5 090	5 168
Contracted Exports	605	605	358	358	358	358	358	633	880	880	880	880	385	385	275	275	275	275	
Proposed Exports			55	55	55	55	55												
8 Total Exports		605	605	413	413	413	413	413	633	880	880	880	880	385	385	275	275	275	
9 Total Peak Demand	7+8	5 116	5 111	4 906	4 897	4 893	4 907	4 942	5 199	5 484	5 525	5 578	5 635	5 201	5 255	5 199	5 283	5 365	5 443
10 Reserves		475	494	539	538	538	539	543	548	553	557	564	571	578	584	591	601	611	620
11 System Surplus	6-9-10	468	578	841	854	971	959	908	1 178	891	849	789	725	767	707	756	662	570	308
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105											
Exportable Surplus	11+12	363	473	736	749	866	854	908	1 178	891	849	789	725	767	707	756	662	570	308

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K19/Gas34/250 MW – 4x DSM

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT							245	245	245	245	245	490	490	735	735	980	980	980	
CCGT																357	357	357	
2 Total New Thermal							245	245	245	245	245	490	490	735	735	980	980	980	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	630	630	630	875	875	875	875	1 120	1 120	1 365	1 365	1 610	1 610	1 610	1 967	1 967	1 967	
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Selkirk Gas																			
Brandon Units 6-7 SCGT	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild																			
Bipole III Reduced Losses	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
5 Total Base Supply Power Resources		5 741																	
6 Total Power Resources	4+5	6 371	6 371	6 371	6 616	6 616	6 616	6 616	6 861	6 861	7 106	7 106	7 351	7 351	7 351	7 708	7 708	7 708	
Peak Demand																			
2013 Base Load Forecast																			
Less: 4x 2013 DSM Forecast	5 886	5 959	6 032	6 105	6 178	6 251	6 324	6 396	6 469	6 542	6 615	6 688	6 761	6 834	6 907	6 979	7 052	7 125	
7 Manitoba Net Load	- 641	- 637	- 612	- 588	- 566	- 544	- 523	- 494	- 467	- 442	- 420	- 399							
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	5 520	5 597	5 695	5 792	5 612	5 707	5 801	5 902	6 002	6 100	6 195	6 289	6 362	6 435	6 508	6 580	6 653	6 726
10 Reserves																			
11 System Surplus	6-9-10	629	639	650	662	673	685	696	708	720	732	743	755	763	772	781	790	798	807
12 Less: Brandon Unit 5		222	135	26	162	331	224	119	6	139	29	168	62	226	144	62	338	257	175
Exportable Surplus	11+12	222	135	26	162	331	224	119	6	139	29	168	62	226	144	62	338	257	175

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K19/Gas34/250 MW - 4x DSM

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
493	493	2 974	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
186	186	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	
New Wind																			
4 Total New Power Resources	1+2+3+4																		
493	493	3 160	3 226	3 226	3 226	3 226	3 226	3 226	3 226	3 226	3 226	3 226	3 226	3 226	3 226	3 226	3 226	3 226	
Base Supply Power Resources																			
Existing Hydro	21 914	21 912	21 911	21 899	21 888	21 880	21 862	21 854	21 846	21 838	21 838	21 828	21 818	21 818	21 808	21 798	21 798	21 788	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	592											
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271				
Proposed Imports		781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	155	
Hydro Adjustment	340	373	784	844	844	844	844	844	844	844	844	844	844	406	307	307	307	70	
Market Purchases	363	338	583	493	493	493	493	493	493	493	493	493	493	1 860	2 131	2 131	2 131	2 913	
Existing Wind	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild																		60	
Bipole III Reduced Losses																		202	
6 Total Base Supply Power Resources	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 046	30 038	30 030	30 030	30 020	29 571	29 472	29 462	29 452	29 452	29 266	
7 Total Power Resources	5+6	30 211	30 242	30 652	30 700	30 879	30 871	31 127	33 206	33 264	33 256	33 256	33 246	32 797	32 698	32 688	32 678	32 492	
Manitoba Domestic Load																			
2013 Base Load Forecast	25 239	25 676	26 013	26 322	26 606	27 003	27 398	27 789	28 197	28 605	29 013	29 418	29 822	30 225	30 625	31 041	31 453	31 863	
Construction Power - Hydro	22	22	40	50	70	80	60	25						4	12	16	28	8	
Less: 4x 2013 DSM Forecast	- 433	- 815	-1 152	-1 450	-1 733	-2 005	-2 192	-2 351	-2 510	-2 667	-2 784	-2 846	-2 911	-3 003	-3 090	-3 018	-2 946	-2 889	
8 Manitoba Net Load	24 828	24 883	24 901	24 922	24 943	25 078	25 266	25 463	25 687	25 938	26 229	26 572	26 911	27 226	27 547	28 039	28 535	28 982	
Contracted Exports	3 156	3 156	2 115	2 012	2 012	2 012	2 012	3 048	4 191	4 314	4 314	4 314	4 314	2 031	1 887	1 472	1 389	1 389	
Proposed Exports		394	414	414	414	414	414	204	162	162	162	162	162	162	162	162	162	162	
Less: Adverse Water		- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85					
9 Total Net Exports	3 156	3 156	2 200	2 056	2 056	2 056	2 882	3 864	3 963	3 963	3 963	2 108	2 049	1 634	1 551	1 551	1 389		
10 Total Energy Demand	8+9	27 984	28 039	27 101	26 978	26 999	27 134	27 322	28 345	29 551	29 901	30 192	30 535	29 019	29 275	29 181	29 590	30 086	30 371
11 System Surplus	7-10	2 227	2 203	3 551	3 722	3 880	3 737	3 805	4 861	3 713	3 355	3 064	2 711	3 778	3 423	3 507	3 088	2 592	2 121
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 592												
13 Adverse Water			- 309	- 370	- 370	- 370	- 370	- 370	- 489	- 513	- 513	- 513	- 513	- 85					
Exportable Surplus	11+12+13	1 416	1 392	2 431	2 541	2 699	2 556	2 843	4 491	3 224	2 842	2 551	2 198	3 693	3 423	3 507	3 088	2 592	2 121

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K19/Gas34/250 MW - 4x DSM

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal						1 857	1 857	1 857	1 857	1 857	3 714	3 714	5 571	5 571	7 428	7 428	7 428	7 428	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports	223	223	223	223	223														
4 New Wind																			
5 Total New Power Resources	1+2+3+4	3 226	3 226	3 226	5 083	4 897	4 860	4 860	6 717	6 717	8 574	8 574	10 431	10 431	10 431	13 137	13 137	13 137	
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas																			
Brandon Units 6-7 SCGT	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases																			
Existing Wind																			
Pointe du Bois Rebuild																			
Bipole III Reduced Losses																			
6 Total Base Supply Power Resources		29 286	29 276	29 266	29 266	29 441	29 385	29 435	29 458	29 458	29 448	29 438	29 438	29 428	29 418	29 418	29 408	29 398	29 398
7 Total Power Resources	5+6	32 512	32 502	32 492	34 349	34 338	34 245	34 295	34 318	36 175	36 165	38 012	38 012	39 859	39 849	39 849	42 545	42 535	42 535
Manitoba Domestic Load																			
2013 Base Load Forecast																			
8	32 265	32 667	33 069	33 471	33 873	34 274	34 676	35 078	35 480	35 882	36 283	36 685	37 087	37 489	37 890	38 292	38 694	39 096	
Construction Power - Hydro																			
4																			
Less: 4x 2013 DSM Forecast																			
8 Manitoba Net Load		-2 847	-2 803	-2 661	-2 546	-2 434	-2 341	-2 249	-2 138	-2 031	-1 936	-1 859	-1 785						
Contracted Exports																			
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports		1 389	1 389	1 389	1 389	353	145												
10 Total Energy Demand	8+9	30 815	31 257	31 797	32 314	31 792	32 078	32 572	33 085	33 594	34 091	34 569	35 045	35 447	35 849	36 250	36 652	37 054	37 456
11 System Surplus	7-10	1 697	1 245	695	2 035	2 546	2 167	1 723	1 233	2 581	2 074	3 443	2 967	4 412	4 000	3 599	5 893	5 481	5 079
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	1 697	1 245	695	2 035	2 546	2 167	1 723	1 233	2 581	2 074	3 443	2 967	4 412	4 000	3 599	5 893	5 481	5 079

Date: August 18, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K24/Gas - 1.5x DSM

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
90	90	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
90	90	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
90	90	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
4 Total New Power Resources	1+2+3																		
90	90	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
Base Supply Power Resources																			
Existing Hydro	5 124	5 127	5 164	5 167	5 194	5 197	5 200	5 203	5 206	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
Selkirk Gas		66	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports		220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																		45	
Bipole III Reduced Losses																		75	
5 Total Base Supply Power Resources		6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 306	6 309	6 312	6 312	6 312	5 916	5 916	5 916	5 916	5 741	
6 Total Power Resources	4+5	6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 306	6 309	6 312	6 312	6 402	6 546	6 546	6 546	6 546	6 371	
Peak Demand																			
2013 Base Load Forecast	4 601	4 680	4 742	4 801	4 857	4 930	5 002	5 074	5 147	5 222	5 296	5 369	5 443	5 516	5 588	5 664	5 739	5 813	
Less: 1.5 x 2013 DSM Forecast	- 34	- 65	- 93	- 119	- 141	- 163	- 177	- 191	- 204	- 216	- 224	- 230	- 235	- 242	- 249	- 246	- 243	- 242	
7 Manitoba Net Load		4 567	4 615	4 649	4 682	4 716	4 767	4 825	4 883	4 943	5 006	5 072	5 139	5 208	5 274	5 339	5 418	5 496	5 571
Contracted Exports	605	605	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	
Proposed Exports			55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
8 Total Exports		605	605	413	413	413	413	413	413	358	358	358	358	358	358	358	358	358	
9 Total Peak Demand	7+8	5 172	5 220	5 062	5 095	5 129	5 180	5 238	5 241	5 301	5 364	5 430	5 497	5 208	5 274	5 339	5 418	5 496	5 571
10 Reserves		482	508	558	562	566	572	579	586	593	601	609	617	625	633	641	650	659	669
11 System Surplus	6-9-10	405	455	666	632	707	653	486	479	415	347	273	288	713	639	566	478	391	131
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
Exportable Surplus	11+12	300	350	561	527	602	548	486	479	415	347	273	288	713	639	566	478	391	131

Date: August 18, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K24/Gas - 1.5x DSM

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal	245	245	245	245	490	490	735	735	735	980	980	980	980	980	980	1 225	1 225	1 225	
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports	245	245	245	490	490	735	735	735	980	980	980	980	980	1 337	1 337	1 337	1 582	1 582	
4 Total New Power Resources	630	875	875	875	1 120	1 120	1 365	1 365	1 365	1 610	1 610	1 610	1 967	1 967	1 967	2 212	2 212		
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5																			
Selkirk Gas																			
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild																			
Bipole III Reduced Losses																			
5 Total Base Supply Power Resources	5 741																		
6 Total Power Resources	4+5	6 371	6 616	6 616	6 616	6 861	6 861	7 106	7 106	7 106	7 351	7 351	7 351	7 708	7 708	7 708	7 953	7 953	
Peak Demand																			
2013 Base Load Forecast																			
Less: 1.5 x 2013 DSM Forecast																			
7 Manitoba Net Load	5 886	5 959	6 032	6 105	6 178	6 251	6 324	6 396	6 469	6 542	6 615	6 688	6 761	6 834	6 907	6 979	7 052	7 125	
Less: Brandon Unit 5																			
8 Total Exports	- 240	- 239	- 230	- 221	- 212	- 204	- 196	- 185	- 175	- 166	- 158	- 150	- 150	- 150	- 150	- 150	- 150	- 150	
9 Total Peak Demand	5 646	5 720	5 802	5 884	5 966	6 047	6 128	6 211	6 294	6 376	6 457	6 538	6 611	6 684	6 757	6 829	6 902	6 975	
10 Reserves	5 646	5 720	5 802	5 884	5 966	6 047	6 128	6 211	6 294	6 376	6 457	6 538	6 611	6 684	6 757	6 829	6 828	837	
11 System Surplus	47	210	118	26	179	88	243	150	57	210	119	28	304	222	140	59	223	141	
12 Less: Brandon Unit 5	47	210	118	26	179	88	243	150	57	210	119	28	304	222	140	59	223	141	
Exportable Surplus	11+12	47	210	118	26	179	88	243	150	57	210	119	28	304	222	140	59	223	141

Date: August 18, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K24/Gas - 1.5x DSM

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																			
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																		
Base Supply Power Resources																			
Existing Hydro	21 914	21 912	21 911	21 899	21 888	21 880	21 862	21 854	21 846	21 838	21 838	21 828	21 818	21 818	21 808	21 798	21 798	21 788	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	
Proposed Imports																			
Hydro Adjustment	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	
Market Purchases	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	
Existing Wind	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	493	493	493	
Pointe du Bois Rebuild	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Bipole III Reduced Losses																			
6 Total Base Supply Power Resources	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 034	30 026	30 018	30 018	30 008	29 571	29 472	29 462	29 452	29 452	29 266	
7 Total Power Resources	5+6	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 034	30 026	30 018	30 018	30 501	32 545	32 475	32 465	32 455	32 269	
Manitoba Domestic Load																			
2013 Base Load Forecast	25 239	25 676	26 013	26 322	26 606	27 003	27 398	27 789	28 197	28 605	29 013	29 418	29 822	30 225	30 625	31 041	31 453	31 863	
Construction Power - Hydro								22	22	40	50	70	80	60	25	4	12	16	
Less: 1.5 x 2013 DSM Forecast	- 162	- 306	- 432	- 544	- 650	- 752	- 822	- 882	- 941	- 1 000	- 1 044	- 1 067	- 1 092	- 1 126	- 1 159	- 1 132	- 1 105	- 1 083	
8 Manitoba Net Load	25 077	25 370	25 581	25 778	25 956	26 273	26 598	26 947	27 306	27 675	28 049	28 411	28 755	29 103	29 478	29 925	30 376	30 788	
Contracted Exports	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	2 012	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports	3 156	3 156	2 200	2 056	2 056	2 056	1 846	1 804	350	307	307	307	145						
10 Total Energy Demand	8+9	28 233	28 526	27 781	27 834	28 012	28 329	28 654	28 793	29 110	29 479	29 853	30 215	29 105	29 410	29 785	30 232	30 683	30 933
11 System Surplus	7-10	1 978	1 716	2 871	2 866	2 867	2 542	1 980	1 241	916	539	165	286	3 440	3 065	2 680	2 223	1 772	1 336
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 592												
13 Adverse Water			- 309	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 370	- 61			
Exportable Surplus	11+12+13	1 167	905	1 751	1 685	1 686	1 361	1 018	871	546	169			3 379	3 065	2 680	2 223	1 772	1 336

Date: August 18, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K24/Gas - 1.5x DSM

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
New Thermal																			
SCGT	1 857	1 857	1 857	1 857	3 714	3 714	5 571	5 571	5 571	7 428	7 428	7 428	7 428	7 428	7 428	7 428	9 285	9 285	
CCGT																	2 706	2 706	
2 Total New Thermal	1 857	1 857	1 857	1 857	3 714	3 714	5 571	5 571	5 571	7 428	10 134	10 134	10 134	11 991					
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4	3 003	4 860	4 860	4 860	6 717	6 717	8 574	8 574	8 574	10 431	10 431	10 431	13 137	13 137	13 137	13 137	14 994	14 994
Base Supply Power Resources																			
Existing Hydro	21 788	21 778	21 768	21 768	21 758	21 748	21 748	21 738	21 738	21 728	21 718	21 718	21 708	21 698	21 698	21 688	21 678	21 678	
Existing Thermal																			
Brandon Coal - Unit 5	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Selkirk Gas	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Brandon Units 6-7 SCGT																			
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Existing Wind	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Bipole III Reduced Losses	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	
6 Total Base Supply Power Resources		29 286	29 276	29 266	29 266	29 256	29 246	29 246	29 236	29 236	29 226	29 216	29 216	29 206	29 196	29 196	29 186	29 176	
7 Total Power Resources	5+6	32 289	34 136	34 126	34 126	35 973	35 963	37 820	37 810	37 810	39 657	39 647	39 647	42 343	42 333	42 323	44 170	44 170	
Manitoba Domestic Load																			
2013 Base Load Forecast	32 265	32 667	33 069	33 471	33 873	34 274	34 676	35 078	35 480	35 882	36 283	36 685	37 087	37 489	37 890	38 292	38 694	39 096	
Construction Power - Hydro	8	4																	
Less: 1.5 x 2013 DSM Forecast	-1 068	-1 051	-998	-955	-913	-878	-843	-802	-762	-726	-697	-669	-669	-669	-669	-669	-669	-669	
8 Manitoba Net Load		31 205	31 620	32 071	32 516	32 960	33 396	33 833	34 276	34 718	35 156	35 586	36 016	36 418	36 820	37 221	37 623	38 025	38 427
Contracted Exports	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports		145																	
10 Total Energy Demand	8+9	31 350	31 765	32 216	32 661	33 105	33 541	33 978	34 421	34 863	35 301	35 731	36 161	36 563	36 965	37 366	37 768	38 170	38 572
11 System Surplus	7-10	939	2 371	1 910	1 465	2 868	2 422	3 842	3 389	2 947	4 356	3 916	3 486	5 780	5 368	4 967	4 555	6 000	5 598
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	939	2 371	1 910	1 465	2 868	2 422	3 842	3 389	2 947	4 356	3 916							

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K30/Gas - 4x DSM

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																		90	
1 Total New Hydro																		90	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3																	90	
Base Supply Power Resources																			
Existing Hydro	5 124	5 127	5 164	5 167	5 194	5 197	5 200	5 203	5 206	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Existing Thermal																			
Brandon Coal - Unit 5	105	105	105	105	105	105													
Selkirk Gas		66	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Brandon Units 6-7 SCGT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
Contracted Imports	550	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	
Proposed Imports		220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
Pointe du Bois Rebuild																		45	
Bipole III Reduced Losses							86	86	86	86	86	86	86	86	86	86	86	86	
5 Total Base Supply Power Resources	6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 306	6 309	6 312	6 312	5 927	5 752						
6 Total Power Resources	4+5	6 059	6 183	6 286	6 289	6 402	6 405	6 303	6 306	6 309	6 312	6 312	5 927	5 927	5 927	5 927	5 842		
Peak Demand																			
2013 Base Load Forecast	4 601	4 680	4 742	4 801	4 857	4 930	5 002	5 074	5 147	5 222	5 296	5 369	5 443	5 516	5 588	5 664	5 739	5 813	
Less: 4x 2013 DSM Forecast	- 90	- 174	- 249	- 317	- 377	- 436	- 473	- 508	- 543	- 577	- 598	- 614	- 627	- 646	- 664	- 656	- 649	- 645	
7 Manitoba Net Load	4 511	4 506	4 493	4 484	4 480	4 494	4 529	4 566	4 604	4 645	4 698	4 755	4 816	4 870	4 924	5 008	5 090	5 168	
Contracted Exports	605	605	358	358	358	358	358	358	605	605	605	605	110	110					
Proposed Exports			55	55	55	55	55	55											
8 Total Exports	605	605	413	413	413	413	413	358	605	605	605	605	110	110					
9 Total Peak Demand	7+8	5 116	5 111	4 906	4 897	4 893	4 907	4 942	4 924	5 209	5 250	5 303	5 360	4 926	4 980	4 924	5 008	5 090	5 168
10 Reserves		475	494	539	538	538	539	543	548	553	557	564	571	578	584	591	601	611	620
11 System Surplus	6-9-10	468	578	841	854	971	959	818	834	547	505	445	381	423	363	412	318	226	54
12 Less: Brandon Unit 5		- 105	- 105	- 105	- 105	- 105	- 105	- 105											
Exportable Surplus	11+12	363	473	736	749	866	854	818	834	547	505	445	381	423	363	412	318	226	54

Date: August 16, 2013

System Firm Winter Peak Demand and Capacity Resources (MW) @ generation
NFAT 2013 Update
K30/Gas - 4x DSM

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
1 Total New Hydro	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
4 Total New Power Resources	1+2+3	630	630	630	630	630	875	875	875	1 120	1 120	1 365	1 365	1 610	1 610	1 610	1 967	1 967	1 967
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	5 209	
Selkirk Gas																			
Brandon Units 6-7 SCGT	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	
Contracted Imports																			
Proposed Imports																			
Pointe du Bois Rebuild																			
Bipole III Reduced Losses	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
5 Total Base Supply Power Resources		5 741																	
6 Total Power Resources	4+5	6 371	6 616	6 616	6 616	6 861	6 861	7 106	7 106	7 351	7 351	7 351	7 708	7 708	7 708				
Peak Demand																			
2013 Base Load Forecast																			
Less: 4x 2013 DSM Forecast	5 886	5 959	6 032	6 105	6 178	6 251	6 324	6 396	6 469	6 542	6 615	6 688	6 761	6 834	6 907	6 979	7 052	7 125	
7 Manitoba Net Load	- 641	- 637	- 612	- 588	- 566	- 544	- 523	- 494	- 467	- 442	- 420	- 399							
Contracted Exports																			
Proposed Exports																			
8 Total Exports																			
9 Total Peak Demand	7+8	5 245	5 322	5 420	5 517	5 612	5 707	5 801	5 902	6 002	6 100	6 195	6 289	6 362	6 435	6 508	6 580	6 653	6 726
10 Reserves		629	639	650	662	673	685	696	708	720	732	743	755	763	772	781	790	798	807
11 System Surplus	6-9-10	497	410	301	192	86	224	119	6	139	29	168	62	226	144	62	338	257	175
12 Less: Brandon Unit 5																			
Exportable Surplus	11+12	497	410	301	192	86	224	119	6	139	29	168	62	226	144	62	338	257	175

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K30/Gas - 4x DSM

Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask																			
1 Total New Hydro																		493	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4																	493	
Base Supply Power Resources																			
Existing Hydro	21 914	21 912	21 911	21 899	21 888	21 880	21 862	21 854	21 846	21 838	21 838	21 828	21 818	21 818	21 808	21 798	21 798	21 788	
Existing Thermal																			
Brandon Coal - Unit 5	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	811	
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports	2 705	1 949	1 549	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	1 639	271	
Proposed Imports																			
781	781	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	155	
Hydro Adjustment	340	373	784	844	844	844	844	844	844	844	844	844	844	844	844	844	844	70	
Market Purchases	363	338	583	493	493	493	493	493	493	493	493	493	493	493	493	493	493	2 763	
Existing Wind	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Pointe du Bois Rebuild																		60	
Bipole III Reduced Losses																		190	
6 Total Base Supply Power Resources	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 034	30 026	30 018	30 018	30 008	29 559	29 460	29 401	29 359	29 410	29 104	
7 Total Power Resources	5+6	30 211	30 242	30 652	30 700	30 879	30 871	30 634	30 034	30 026	30 018	30 018	30 008	29 559	29 460	29 401	29 359	29 410	29 597
Manitoba Domestic Load																			
2013 Base Load Forecast	25 239	25 676	26 013	26 322	26 606	27 003	27 398	27 789	28 197	28 605	29 013	29 418	29 822	30 225	30 625	31 041	31 453	31 863	
Construction Power - Hydro																			
- 433	- 433	- 815	-1 152	-1 450	-1 733	-2 005	-2 192	-2 351	-2 510	-2 667	-2 784	-2 846	-2 911	-3 003	-3 090	-3 018	-2 946	-2 889	
8 Manitoba Net Load	24 806	24 861	24 861	24 872	24 873	24 998	25 206	25 438	25 687	25 938	26 229	26 594	26 933	27 266	27 597	28 109	28 615	29 042	
Contracted Exports	3 156	3 156	2 115	2 012	2 012	2 012	2 012	2 012	2 012	2 947	3 070	3 070	3 070	3 070	787	643	228	145	
Proposed Exports																			
394	394	414	414	414	414	414	414	414	414	204	162	162	162	162	162	162	162	162	
Less: Adverse Water																			
9 Total Net Exports	3 156	3 156	2 200	2 056	2 056	2 056	1 846	2 620	2 719	2 719	864	805	390	307	307	145			
10 Total Energy Demand	8+9	27 962	28 017	27 061	26 928	26 929	27 054	27 262	27 284	28 307	28 657	28 948	29 313	27 797	28 071	27 987	28 416	28 922	29 187
11 System Surplus	7-10	2 249	2 225	3 591	3 772	3 950	3 817	3 372	2 750	1 719	1 361	1 070	695	1 762	1 389	1 414	943	488	410
12 Less : Brandon Unit 5		- 811	- 811	- 811	- 811	- 811	- 811	- 592											
13 Adverse Water																			
Exportable Surplus	11+12+13	1 438	1 414	2 471	2 591	2 769	2 636	2 410	2 380	1 230	848	557	182	1 677	1 389	1 414	943	488	410

Date: August 16, 2013

System Firm Energy Demand and Dependable Resources (GWh) @ generation

NFAT 2013 Update

K30/Gas - 4x DSM

Fiscal Year	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	
Power Resources																			
New Power Resources																			
New Hydro																			
Conawapa																			
Keeyask	2 974	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	3 003	
1 Total New Hydro	2 974	3 003																	
New Thermal																			
SCGT																			
CCGT																			
2 Total New Thermal																			
New Imports																			
Contracted																			
Proposed																			
3 Total New Imports																			
New Wind																			
5 Total New Power Resources	1+2+3+4	2 974	3 003	3 003	3 003	3 003	4 860	4 860	4 860	6 717	6 717	8 574	8 574	10 431	10 431	10 431	13 137	13 137	13 137
Base Supply Power Resources																			
Existing Hydro																			
Existing Thermal																			
Brandon Coal - Unit 5	21 788	21 778	21 768	21 768	21 758	21 748	21 748	21 738	21 738	21 728	21 718	21 718	21 708	21 698	21 698	21 688	21 678	21 678	
Selkirk Gas	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Brandon Units 6-7 SCGT	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	2 354	
Contracted Imports																			
Proposed Imports																			
Hydro Adjustment																			
Market Purchases																			
Existing Wind	2 959	3 001	3 055	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	3 068	
Pointe du Bois Rebuild	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	
Bipole III Reduced Losses	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
6 Total Base Supply Power Resources		29 177	29 209	29 253	29 266	29 256	29 246	29 246	29 236	29 236	29 226	29 216	29 216	29 206	29 196	29 196	29 186	29 176	29 176
7 Total Power Resources	5+6	32 151	32 212	32 256	32 269	32 259	34 106	34 106	34 096	35 953	35 943	37 790	37 790	39 637	39 627	39 627	42 323	42 313	42 313
Manitoba Domestic Load																			
2013 Base Load Forecast																			
32 265	32 667	33 069	33 471	33 873	34 274	34 676	35 078	35 480	35 882	36 283	36 685	37 087	37 489	37 890	38 292	38 694	39 096		
Construction Power - Hydro	33	4																	
Less: 4x 2013 DSM Forecast	-2 847	-2 803	-2 661	-2 546	-2 434	-2 341	-2 249	-2 138	-2 031	-1 936	-1 859	-1 785	-1 785	-1 785	-1 785	-1 785	-1 785	-1 785	
8 Manitoba Net Load		29 451	29 868	30 408	30 925	31 439	31 933	32 427	32 940	33 449	33 946	34 424	34 900	35 302	35 704	36 105	36 507	36 909	37 311
Contracted Exports																			
Proposed Exports																			
Less: Adverse Water																			
9 Total Net Exports		145																	
10 Total Energy Demand	8+9	29 596	30 013	30 553	31 070	31 584	32 078	32 572	33 085	33 594	34 091	34 569	35 045	35 447	35 849	36 250	36 652	37 054	37 456
11 System Surplus	7-10	2 555	2 199	1 703	1 199	675	2 028	1 534	1 011	2 359	1 852	3 221	2 745	4 190	3 778	3 377	5 671	5 259	4 857
12 Less : Brandon Unit 5																			
13 Adverse Water																			
Exportable Surplus	11+12+13	2 555	2 199	1 703	1 199	675	2 028	1 534	1 011	2 359	1 852	3 221	2 745	4 190	3 778	3 377	5 671	5 259	4 857