2015 NATURAL GAS VOLUME FORECAST

MARKET FORECAST SEPTEMBER 2015



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EXECUTIVE SUMMARY

Overview In 2014/15 Manitoba Hydro had 273,465 natural gas customers who used a Heating Value and 10³m³. Weather Adjusted volume of During 2014/15 there were an average of System Supply customers who used a 10³m³. Manitoba Hydro has two Heating Value and Weather Adjusted volume of different rate options for their supply: a Quarterly service, and a Fixed Rate service. During 2014/15 there were an average of Western Transportation Service (WTS) customers who used a Heating Value and Weather Adjusted volume of there were Transportation Service customers who used a Heating Value and Weather 10³m³. Adjusted volume of 2015/16 - First Year of the Forecast The 2015/16 forecast is for an average of customers with a total volume of 10³m³. This is a customer customers from 2014/15 and a volume from the Heating Value and Weather Adjusted actuals from 2014/15. For the 2015/16 fiscal year, Quarterly Rate customers are forecast to customers Fixed Rate customers to customers to WTS customers to customers to and T-Service to customers. 10^{3}m^{3} Also for 2015/16, Quarterly Rate volume is forecast to 10³m³. Fixed Rate volume is forecast to 10³m³ 10³m³. WTS volume is forecast to 10³m³ 10³m³. T-Service is forecast to 10^{3}m^{3} 10³m³. These are all compared to the 2014/15 Heating Value and Weather Adjusted actuals.

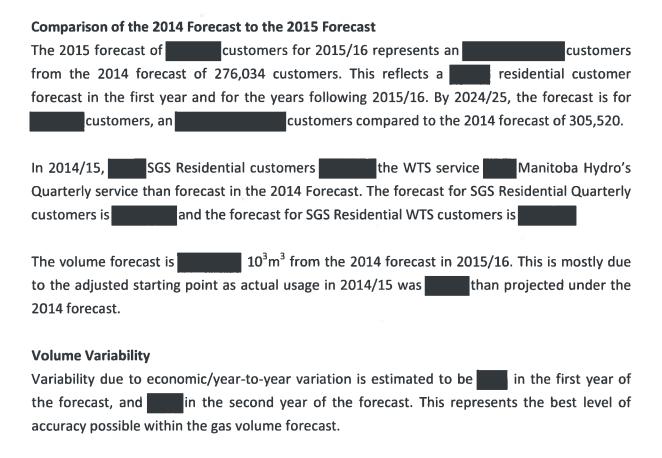


Table 1 – Volume Forecast by Supply Source

				2005/	/06 - 2024/2					
	System Supply Quarterly Rate Fixed Rate			WT			T-Service		Total	
Fiscal Year	Ave Custs	10 ³ m ³	Ave Custs	10°m3	Ave Custs	10°m3	Ave Custs	10°m3	Ave Custs	10 ³ m ³
2005/06									255,416	
2006/07	a syste								257,895	
2007/08									259,602	
2008/09	B B S S S								261,935	
2009/10	E CHARLES								263,391	
2010/11	PARTY.								264,978	
2011/12	A BANGETT								266,699	
2012/13									268,625	
2013/14									270,953	
2014/15									273,465	
2015/16		PYE						T is		
2016/17	18 E.W.									
2017/18	Sala.									
2018/19										
2019/20										
2020/21										
2021/22	1988									
2022/23	THE ST									
2023/24	THE REAL PROPERTY.									
2024/25	FIRST ST									

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INTRODUCTION

This document is prepared annually as Manitoba Hydro's forecast of its future natural gas volume requirements for its service area. The service area includes all natural gas consumers in Manitoba. 238 customers in the towns of Swan River and Benito started being supplied by Manitoba Hydro as of May 30, 2014 and the forecast of their use is included in this document.

Centra Gas Manitoba Incorporated is a wholly owned subsidiary of Manitoba Hydro that oversees the natural gas distribution operations of Manitoba Hydro. Centra's rates and terms of service are regulated by the Manitoba Public Utilities Board. This document will refer to "Manitoba Hydro" rather than "Centra".

This document only addresses volumetric sales at the customers' gas meters. It does not consider Unaccounted For Gas (UFG), which is made up of losses due to leakage and accounting discrepancies due to billing cycles, meter inaccuracies and adjustments.

Customer sales are measured by volume. The unit of measurement is cubic meters (m³) and this document forecasts customer sales in thousands of cubic meters (10³m³). An average Small General Service Residential natural gas customer uses m³ of natural gas per year.

Natural gas is purchased from suppliers as an amount of energy measured in gigajoules (GJ). Customers are billed in terms of volume measured in cubic meters (m³). The heating content of the gas can vary, so in order to allow the volumes to be comparable on an energy basis, the historic billed volumes are adjusted to a heating value of GJ/10³m³

In 2014/15 Manitoba Hydro had 273,465 natural gas customers who used a Heating Value and Weather Adjusted volume was 10³ m³.

The fiscal year in this document encompasses the April through March period that corresponds to Manitoba Hydro's fiscal year. This differs from the natural gas year, used for gas purchasing,

which runs from November to October. A "month" in this document refers to the actual calendar month. Customer billing periods have been adjusted in both the history and forecast to correspond to the calendar months.

Rate Classes

Most customers are classified as General Service. During 2014/15 there were an average of 273,325 General Service customers who used a Heating Value and Weather Adjusted volume of 10³m³. General Service customers are divided into Small (SGS) and Large (LGS). Small General Service customers are further divided into Residential (SRES) and Commercial (SCOM).

The remaining customers include 137 Top Consumers, two Power Stations and one Special Contract customer. Top Consumers are divided into High Volume Firm (HVF), Mainline Firm (MLF) and Interruptible (INT). In total, the remaining customers used a Heating Value and Weather Adjusted volume of 10³m³ in 2014/15.

Supply Services

System Supply is the service where Manitoba Hydro's purchases the primary gas for the customer. During 2014/15 there were an average of System Supply customers who used a Heating Value and Weather Adjusted of 10³m³. Manitoba Hydro has two different rate options for their supply: a Quarterly service, and a Fixed Rate service.

Western Transportation Service (WTS) is the service where a broker purchases the primary gas for a customer. Manitoba Hydro bills customers on behalf of the broker and remits the primary gas charges to the broker. During 2014/15 there were an average of WTS customers who used a Heating Value and Weather Adjusted volume of 10³m³.

Transportation Service is the service where customers purchase their own primary gas and Manitoba Hydro does not bill the customer for the primary gas. During 2014/15 there were Transportation Service customers who used a Heating Value and Weather Adjusted volume of 10^3m^3 .

Table 2 - 2014/15 Average Customers

	Actuals							
	Quarterly Rate	Fixed Rate	WTS	T-Service	Total			
SGS Residential					248,125			
SGS Commercial					17,080			
LGS					8,121			
High Volume Firm					103			
Mainline Firm					8			
Interruptible Sales					26			
Power Stations				2	2			
Special Contract				1	1			
Total					273,465			

Table 3 - 2014/15 Volume

	2014/15 VOLUME BY CLASS (10 ³ m ³) Heating Value and Weather Adjusted Actuals						
	Quarterly Rate	Fixed Rate	WTS	T-Service	Total		
SGS Residential							
SGS Commercial							
LGS							
High Volume Firm							
Mainline Firm	Manual States						
Interruptible Sales							
less Curtailed Int	100 PM						
Power Stations	N. San Daniel						
Special Contract	E SEE E						
Total							

Table 4 - 2014/15 Average Use

	2014/15 AVERAGE USE PER CUSTOMER (m³/yr) Heating Value and Weather Adjusted Actuals						
	Quarterly Rate	Fixed Rate	WTS	T-Service	Overall		
SGS Residential							
SGS Commercial							
LGS							
High Volume Firm							
Mainline Firm							
Interruptible Sales							
Power Stations							
Special Contract							
Overall							

FORECAST OVERVIEW

2015/16 - First Year of the Forecast

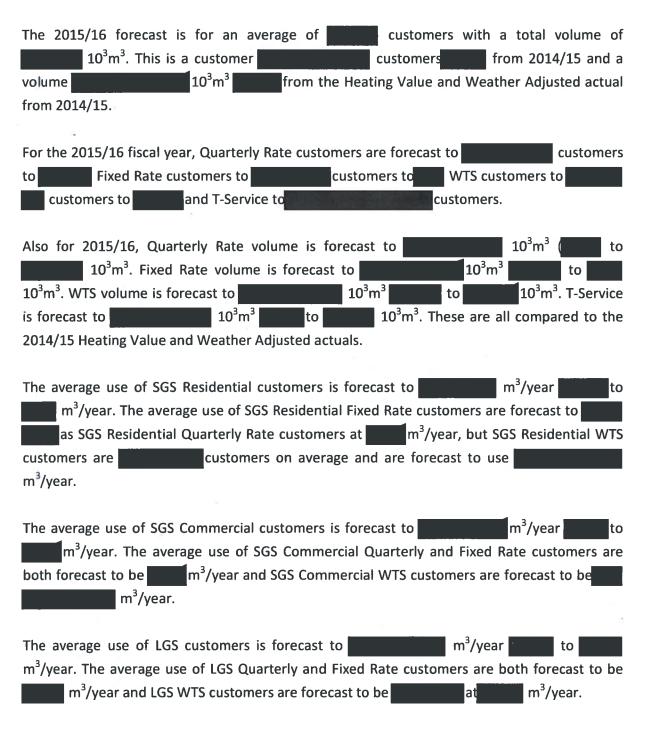


Table 5 - 2015/16 Average Customers by Class

to realities before	2015/16 AVERAGE CUSTOMERS BY CLASS 2015 Forecast						
	Quarterly Rate	Fixed Rate	WTS	T-Service	Total		
SGS Residential	THE RESERVE						
SGS Commercial							
LGS							
High Volume Firm							
Mainline Firm	JEDIER REINE						
Interruptible Sales							
Power Stations	REAL PROPERTY.						
Special Contract							
Total	BL DELLAK N.						

Table 6 - 2015/16 Volume by Class

2015/16 VOLUME BY CLASS (10 ³ m ³) 2015 Forecast						
	Quarterly Rate	Fixed Rate	WTS	T-Service	Total	
SGS Residential						
SGS Commercial						
LGS					T.	
High Volume Firm						
Mainline Firm						
Interruptible Sales						
less Curtailed Int						
Power Stations						
Special Contract						
Total						

Table 7 - 2015/16 Average Use Per Customer

	2015/16 AVERAGE USE PER CUSTOMER (m³/yr) 2015 Forecast							
	Quarterly Rate	Fixed Rate	WTS	T-Service	Overall			
SGS Residential								
SGS Commercial								
LGS								
High Volume Firm								
Mainline Firm								
Interruptible Sales	上於 格別 桌。 整							
Power Stations								
Special Contract	及特別和政治學							
Overall								

2016/17 - Second Year of the Forecast

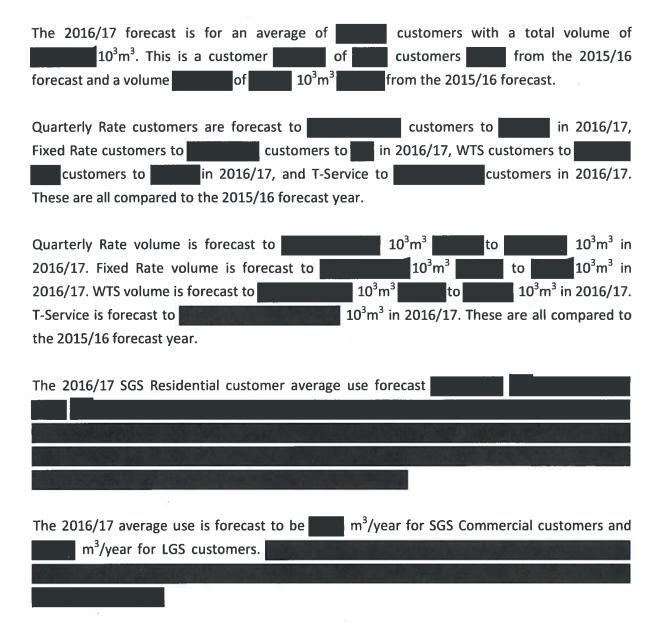


Table 8 - 2016/17 Average Customers by Class

		2016/17 AVERAGE CUSTOMERS BY CLASS 2015 Forecast						
	Quarterly Rate	Fixed Rate	WTS	T-Service	Total			
SGS Residential								
SGS Commercial								
LGS								
High Volume Firm								
Mainline Firm								
Interruptible Sales								
Power Stations								
Special Contract								
Total								

Table 9 - 2016/17 Volume by Class

2016/17 VOLUME BY CLASS (10 ³ m ³) 2015 Forecast							
	Ouarterly Rate	Fixed Rate	WTS	T-Service	Total		
SGS Residential							
SGS Commercial							
LGS							
High Volume Firm							
Mainline Firm							
Interruptible Sales							
less Curtailed Int							
Power Stations							
Special Contract							
Total							

Table 10 - 2016/17 Average Use Per Customer

	2016/17 AVERAGE US E PER CUSTOMER (m³/yr) 2015 Forecast											
	Quarterly Rate	Fixed Rate	WTS	T-Service	Overall							
SGS Residential												
SGS Commercial												
LGS												
High Volume Firm												
Mainline Firm												
Interruptible Sales												
Power Stations												
Special Contract												
Overall												

Comparison of the 2014 Forecast to the Actuals

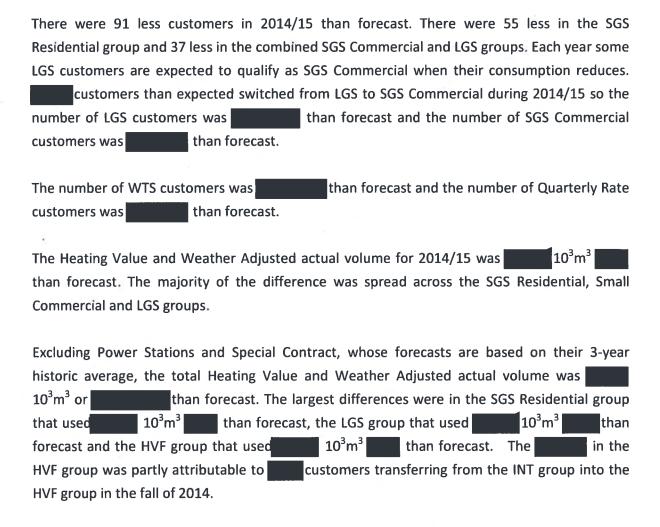


Table 11 - 2014 Forecast Compared to Actuals

20		2014 FO	RECAST COM	PARED TO A	ACTUALS	
	2014/1	5 Average Cu	stomers	2014/	/15 Volume (10	$(3^3 m^3)$
	Actual	Forecast	Act - Fest	Actual	Forecast	Act - Fest
SRES	248,125	248,180	-55			
SCOM	17,080	17,223	-144			
LGS	8,121	8,015	106			
HVF	103	100	3			
MLF	8	8	0			
INT	26	28	-2			
PS	2	2	0			
SPEC	1	1	0			
TOTAL	273,465	273,556	-91			
SRES-S	233,497	234,261	-764			
SCOM-S	16,325	16,452	-127			
LGS-S	7,352	7,055	297			
HVF-S	76	70	6			
MLF-S	1	1	0			
INT-S	22	24	-2			
CURT-S	0	0	0			
TOTAL-S	257,272	257,863	-591			
SRES-F	223	240	-17			
SCOM-F	7	8	-1			
LGS-F	19	19	0			
TOTAL-F	248	266	-18			
SRES-W	14,405	13,679	726			
SCOM-W	748	764	-16			
LGS-W	751	941	-190			
HVF-W	22	25	-3			
MLF-W	1	1	0			
INT-W	2	2	0			
CURT-W	0	0	0			
TOTAL-W	15,928	15,411	517			
HVF-T	5	5	0			
MLF-T	6	6	0			
INT-T	2	2	0			
PS-T	2	2	0			
SPEC-T	1	1	0			
TOTAL-T	17	16	1			
Note: Actuals	s are Heating	Value and We	ather Adjusted			

Change Between the 2014 and 2015 Forecasts

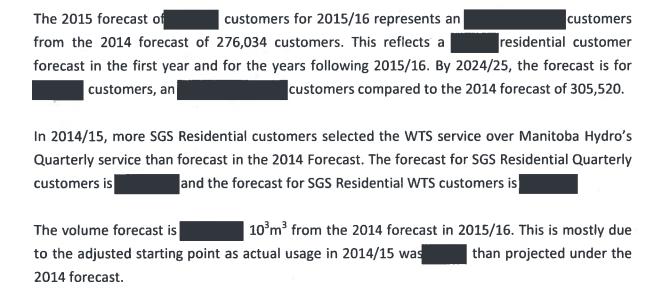


Table 12 - Change Between the 2014 and 2015 Forecast

	C	HANGE BETV	VEEN THE 2	014 AND 2015	FORECASTS	3
	2015/16	Average Cus	tomers	2015/	16 Volume (10	³ m ³)
2	015 Fest	2014 Fest	Change	2015 Fest	2014 Fest	Change
SRES		250,543				
SCOM	100	17,454				
LGS		7,898				
HVF		100				
MLF		8				
INT	E STATE	28				
PS		2				
SPEC	arte de la constante de la con	1				
TOTAL		276,034				
SRES-S		237,162				
SCOM-S	43010	16,708				
LGS-S	William .	6,959				
HVF-S		70				
MLF-S		1				
INT-S		24				
CURT-S		0				
TOTAL-S		260,923				
SRES-F		263				
SCOM-F		11				
LGS-F		22				
TOTAL-F		295				
SRES-W		13,118				
SCOM-W		735				
LGS-W		918				
HVF-W	4457/2	25				
MLF-W		1				
INT-W	ali visit	2				
CURT-W		0				
TOTAL-W		14,800				
HVF-T		5				
MLF-T	3	6				
INT-T		2				
PS-T	44.00	2				
SPEC-T		1				
TOTAL-T		16				

FORECAST DETAILS

SGS Residential

SGS Residential (SRES) includes the residential customer class portion of the Small General Service (SGS) rate class. This is made up of dwellings that are directly billed by Manitoba Hydro for their natural gas use.

Excluded are multi-family gas heated dwellings (multiplexes, townhouses and apartments) where the individual residential units are not directly billed by Manitoba Hydro for their natural gas use. The bill and recorded consumption for their gas use is associated with a common service that serves multiple units. The gas used by these common services is part of the commercial sector: SGS Commercial or Large General Service. Also excluded are about a dozen very large dwellings that have high usage and are classified in the Large General Service (LGS class).

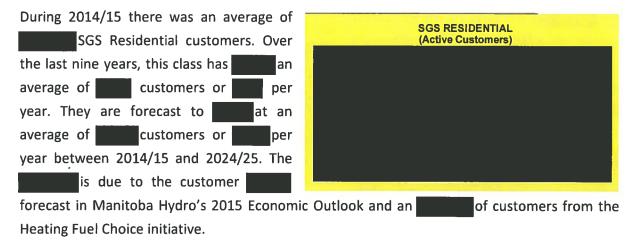
This forecast now includes SGS Residential customers in the towns of Swan River, Minitonas and Benito being supplied by Manitoba Hydro as of May 30, 2014. These customers were previously served by the Swan Valley Gas Corporation.

The primary gas supply for SGS Residential customers may be provided by Manitoba Hydro's regular Quarterly Service, broker-supplied fixed price contracts up to five years long (known as Western Transportation Service or WTS), or Manitoba Hydro's Fixed Rate Primary Gas Service.

All but approximately SGS Residential Customers use natural gas for space heating of their dwelling. The remainder either uses their natural gas for other purposes (e.g. natural gas fireplace or barbeque) or has a gas connection but is not using it. Approximately of Residential gas use is for space heating. About is for water heating, and the remaining is for other natural gas end uses such as ranges, dryers, fireplaces, barbeques, saunas, hot tubs, and pool heaters.

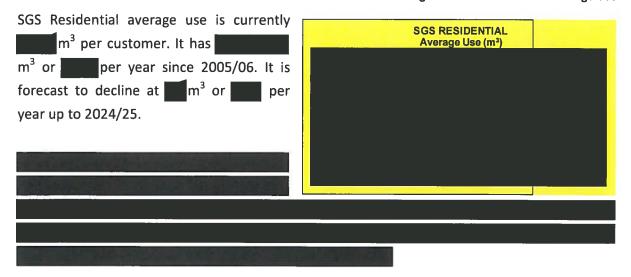
SGS Residential Customers

Figure 1 - SGS Residential Customers



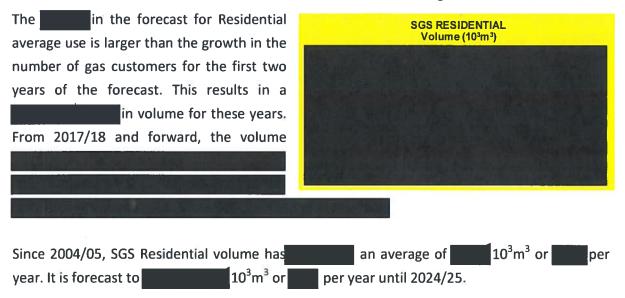
SGS Residential Average Use

Figure 2 - SGS Residential Average Use



SGS Residential Volume

Figure 3 - SGS Residential Volume



SGS Commercial and LGS

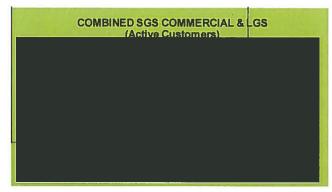
SGS Commercial (SCOM) includes the commercial customer class portion of the Small General Service (SGS) rate class. SGS customers typically have an annual volume of less than 15,000 m³ per year.

Large General Service (LGS) consists of medium-sized customers with usage between 15,000 m³ and 680,000 m³ per year. Most of these are commercial customers, but about 70 large residential dwellings are included in this class as well.

Figure 4 – SGS Commercial & LGS Customers

SGS Commercial and LGS Customers

The total number of customers in the combined SGS Commercial and LGS classes is continuing to Over the past nine years, the has been about customers or per year. Over the next ten years, these classes are forecast to grow by about customers or per year.



The forecast assumes that there will be transfers between classes in the future, primarily from LGS to SGS Commercial, as the efficiency of individual LGS customers improve and annual usage declines to where it becomes more favorable from a rates perspective to be classified as an SGS commercial customer.

customers or per year over the last nine years. It is forecast to by customers or per year over the next ten years. LGS has by customers or per year over the last nine years. It is forecast to by customers or per year over the last nine years. It is forecast to by customers or per year over the next

ten years.

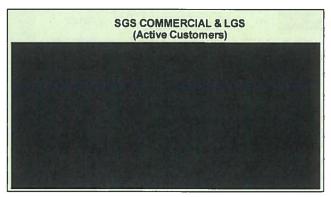


Figure 5 - SGS Commercial & LGS Customers Separated

15

SGS Commercial and LGS Average Use

Figure 6 - SGS Commercial & LGS Average Use

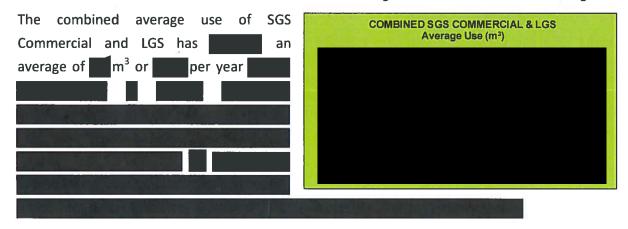


Figure 7 - SGS Commercial Average Use

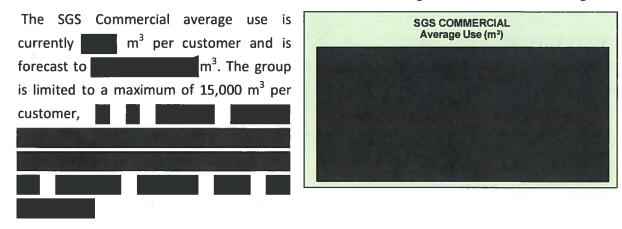


Figure 8 - LGS Average Use

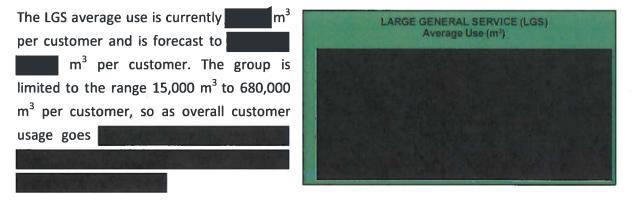


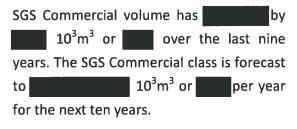
Figure 9 - SGS Commercial & LGS Volume

SGS Commercial and LGS Volume

The combined total volume of SGS Commercial and LGS classes has by 10³m³ or per year over the last nine years. It is expected to by 10³m³ or per year for the next ten years.

COMBINED SGS COMMERCIAL & LGS
Volume (10³m³)

Figure 10 - SGS Commercial Volume



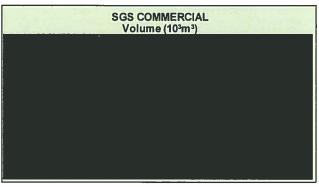
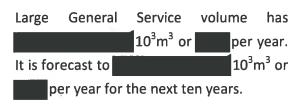


Figure 11 - LGS Volume



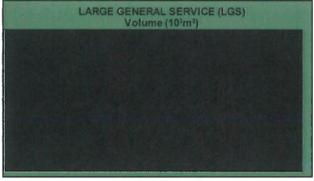


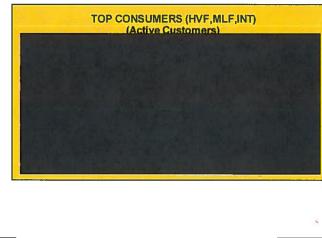
Figure 12 - Top Consumers Customers

Figure 13 - Top Consumers Volume

Top Consumers

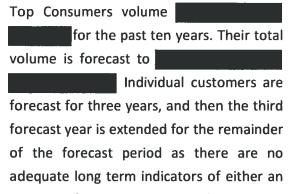
Top Consumers Customers

This category includes all active Top Consumers in the High Volume Firm (HVF), Mainline Firm (MLF) and Interruptible (INT) classes, whether their gas is supplied by Manitoba Hydro (System Supply) or a broker (WTS) or purchased directly by the customer (Transport). The number of Top Consumers has from 2005/06 to in 2014/15.



This forecast assumes that there will be customers in the Top Consumers class

Top Consumers Volume



TOP CONSUMERS (HVF, MLF, INT) Volume (103m3)

increase of decrease in gas use for these customers.

Special Rates

There are three customers who consume large amounts of natural gas and have special rates because they use gas very differently from all other gas customers. Their forecasts are based on three-year historical averages instead of attempting to forecast their volume. Their consumption can vary greatly from year to year, and an incorrect forecast can have an adverse effect on their billing. The use of a three-year average eliminates any possibility of bias for rate setting purposes.

Figure 14 - Power Stations

Power Stations There are two customers in the Power Stations Class.

Figure 15 - Special Contract

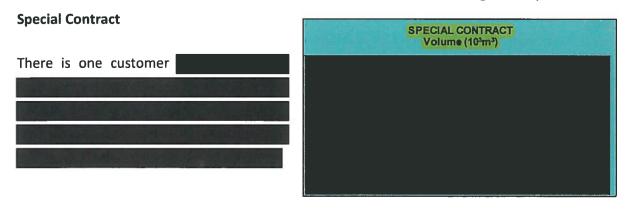


Figure 16 - Total Sales Customers

Total Sales

Total Sales Customers

Total Sales includes all active gas customers. Growth has been over the past nine years with an average of customers or per year. The number of customers is forecast customers or at year

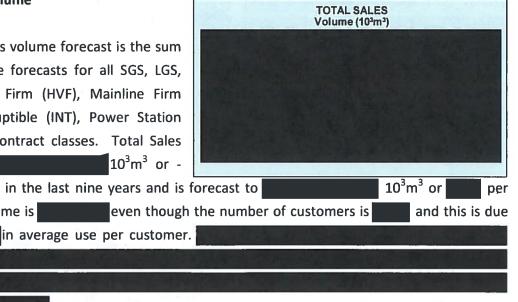
TOTAL SALES (Active Customers)

Figure 17 - Total Sales Volume

Total Sales Volume

year. The volume is

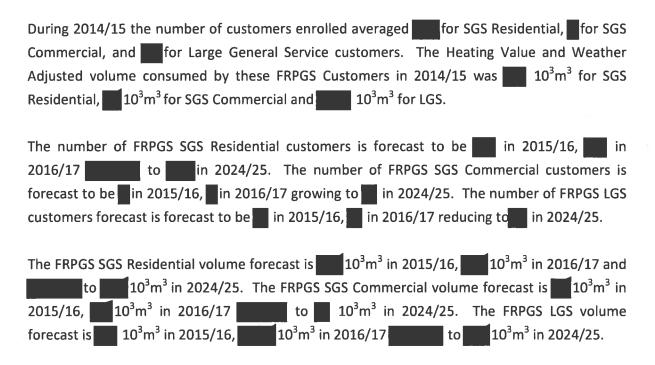
The Total Sales volume forecast is the sum of the volume forecasts for all SGS, LGS, High Volume Firm (HVF), Mainline Firm (MLF), Interruptible (INT), Power Station and Special Contract classes. Total Sales 10³m³ or volume has per year in the last nine years and is forecast to



Fixed Rate Primary Gas Service

Manitoba Hydro's Fixed Rate Primary Gas Service (FRPGS) began in 2009. There have been several offerings each year with 1, 3 and 5 year terms available.

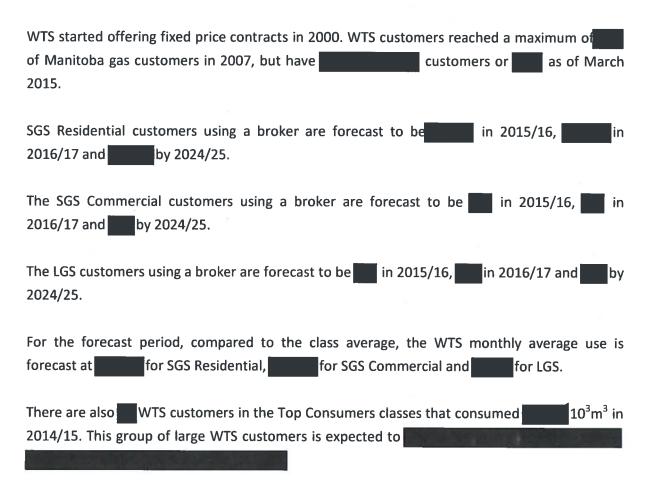
FRPGS product information is provided to customers to allow them to make informed decisions by understanding the differences between choosing the quarterly service, broker fixed price offerings, and Manitoba Hydro's fixed price offering for their primary gas service.



The average use for all FRPGS classes (SGS Residential, SGS Commercial and LGS) was forecast using the average use for System Supply Customers (quarterly rate and FRPGS) as FRPGS does not currently have sufficient customer participation to establish a program specific average use.

Western Transportation Service

Western Transportation Service (WTS) is the service where a broker purchases the primary gas for a customer. Manitoba Hydro bills customers on behalf of the broker and remits the primary gas charges to the broker.



FORECAST TABLES

The forecast tables include monthly information on customers, volume and billed demand for 2015/16 and 2016/17. This document also includes fiscal year information on customers, volume and average use for the 2015/16 to 2024/25 period, as required for preparation of the Integrated Financial Forecast (IFF).

Each table starts with class totals. The classes are:

SRES - Small General Service Residential

SCOM - Small General Service Commercial

LGS - Large General Service

HVF - High Volume Firm

INT – Interruptible

CURT - Curtailed Interruptible

PS - Power Stations

SPEC - Special Contract

TOTAL - Total Sales

This is followed by 4 sections that itemize all the classes by service type. The 4 service types are:

xxxx-S - System Supply Quarterly Service

xxxx-F - System Supply Fixed Rate Primary Gas Service

xxxx-W - Western Transportation Service

xxxx-T - Transport Service

Curtailed Interruptible

Interruptible customers may be interrupted from time to time. The curtailed volume is provided as an alternate service and is a non firm volume which is removed from forecast. The forecast interruption volumes are provided by the Gas Supply Division. They are shown as negative numbers in the CURT-S and CURT-W classes for System Supply and WTS respectively.

Table 13 - 2015/16 Monthly Customers

CLASS	APR			2015/16 MONTHLY CUSTOMERS											
TOTAL BUILDING		MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR			
SRES															
SCOM															
LGS															
HVF															
MLF															
INT															
PS															
SPEC															
TOTAL															
SRES-S															
SCOM-S															
LGS-S															
HVF-S															
MLF-S															
INT-S															
TOTAL-S															
SRES-F															
SCOM-F															
LGS-F															
TOTAL-F															
SRES-W															
SCOM-W															
LGS-W															
HVF-W															
MLF-W															
INT-W															
TOTAL-W															
HVF-T MLF-T															
INT-T															
PS-T															
SPEC-T															
TOTAL-T															

Table 14 - 2015/16 Monthly Volumes

			20	015/16	MONT	HLY VO	OLUME ((10^3m^3)				
CLASS	APR	MAY		JUL	AUG		ост	NOV	DEC	JAN	FEB	MAR
SRES												
SCOM												
LGS												
HVF												
MLF												
INT												
PS												
SPEC												
TOTAL												
SRES-S												
SCOM-S												
LGS-S												
HVF-S												
MLF-S												
INT-S												
CURT-S												
TOTAL-S												
SRES-F												
SCOM-F												
LGS-F												
TOTAL-F												
SRES-W												
SCOM-W												
LGS-W												
HVF-W												
MLF-W												
INT-W												
CURT-W												
TOTAL-W												
HVF-T												
MLF-T												
INT-T												
PS-T												
SPEC-T												
TOTAL-T												

Table 15 - 2015/16 Monthly Demand

2015/16 MONTHLY DEMAND (10 ³ m ³)												
CLASS	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	JAN	FEB	MAR
SRES												
SCOM												
LGS												
HVF												
MLF												
INT												
PS												
SPEC												
TOTAL												
SRES-S												
SCOM-S												
LGS-S												
HVF-S												
MLF-S												
INT-S												
TOTAL-S												
SRES-F												
SCOM-F												
LGS-F												
TOTAL-F												
SRES-W												
SCOM-W												
LGS-W												
HVF-W												
MLF-W												
INT-W												
TOTAL-W												
HVF-T												
MLF-T												
INT-T												
PS-T												
SPEC-T												
TOTAL-T												

Table 16 - 2015/16 Monthly Average Use

LGS			THE RESERVE									•	age Use
SRES SCOM LCS HVF MILF INT PS SPEC TOTAL SRES-S SCOM-S LCS-S HVF-S MILF-S INT-S TOTAL-S SRES-F SCOM-F LGS-F TOTAL-F SRES-W SCOM-W LCS-W HVF-W MILF-W MILF-T INT-T PS-T SPEC-T TOTAL-T			2015	/16 MO	NTHLY	AVERAC	GEUSEI	PER CUS	TOMER	(m ³ /yr)			
LGS	CLASS	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR
LGS HVF MLF MLF INT PS SPEC TOTAL SRES-S SCOMS LGS-S HVF-S MLF-S INT-S TOTALS SRES-F SCOMF LGS-F TOTALF SRES-W SCOMEW LGS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	SRES												
HVF MLF INT PS SPEC TOTAL SRES-S SCOM-S LCS-S HVF-S MLF-S INT-S TOTALS SRES-F SCOM-F LCS-F TOTALF SRES-W SCOM-W LCS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	SCOM												
MLF INT PS SPEC TOTAL SRES-S SCOMS LCS-S HVF-S MLF-S INT-S TOTAL-S SRES-F SCOMF LCS-F TOTAL-F SRES-W SCOM-W LCS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	LGS												
INT PS SPEC TOTAL SRES-S SCOM-S LCS-S HVF-S MLF-S INT-S TOTAL-S SRES-F SCOM-F LCS-F TOTAL-F SRES-W SCOM-W LCS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	HVF												
PS SPEC TOTAL SRES-S SCOMS LGS-S HVF-S MLF-S INT-S TOTAL-S SRES-F SCOM-F LGS-F TOTAL-F SRES-W SCOM-W LGS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	MLF												
SPEC TOTAL SRES-S SCOM-S LGS-S HVF-S MLF-S INT-S TOTAL-S SRES-F SCOM-F LGS-F TOTAL-F SRES-W SCOM-W LGS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	INT												
TOTAL SRES-S SCOM-S LGS-S HVFS MIF-S INT-S TOTAL-S SRES-F SCOM-F LGS-F TOTAL-F SRES-W SCOM-W LGS-W HVF-W MIF-W INT-W TOTAL-W HVF-T MIF-T INT-T PS-T SPEC-T TOTAL-T	PS												
SRES-S SCOM-S LGS-S HVF-S MLF-S INT-S TOTAL-S SRES-F SCOM-F LGS-F TOTAL-F SRES-W SCOM-W LGS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	SPEC												
SCOM-S LCS-S HVF-S MLF-S INT-S TOTAL-S SRES-F SCOM-F LCS-F TOTAL-F SRES-W SCOM-W LCS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	TOTAL												
SCOM-S LCS-S HVF-S MLF-S MLF-S INT-S TOTAL-S SRES-F SCOM-F LCS-F TOTAL-F SRES-W SCOM-W LCS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	SRES-S												
HVF-S MLF-S INT-S TOTAL-S SRES-F SCOM-F LGS-F TOTAL-F SRES-W SCOM-W LGS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	SCOM-S												
MLF-S INT-S INT-S TOTAL-S SRES-F SCOM-F LGS-F TOTAL-F SRES-W SCOM-W LGS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	LGS-S												
INT-S TOTAL-S SRES-F SCOM-F LGS-F TOTAL-F SRES-W SCOM-W LGS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	HVF-S												
SRES-F SCOM-F LGS-F TOTAL-F SRES-W SCOM-W LGS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	MLF-S												
SRES-F SCOM-F LGS-F TOTAL-F SRES-W SCOM-W LGS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	INT-S												
SCOM-F LCS-F TOTAL-F SRES-W SCOM-W LCS-W HVF-W MIF-W INT-W TOTAL-W HVF-T MIF-T INT-T PS-T SPEC-T TOTAL-T	TOTALS												
SCOM-F LCS-F TOTAL-F SRES-W SCOM-W LCS-W HVF-W MIF-W INT-W TOTAL-W HVF-T MIF-T INT-T PS-T SPEC-T TOTAL-T	SRES-F												
LGS-F TOTAL-F SRES-W SCOM-W LGS-W HVF-W MILF-W INT-W TOTAL-W HVF-T MILF-T INT-T PS-T SPEC-T TOTAL-T	i company												
TOTAL-F SRES-W SCOM-W LGS-W HVF-W MLF-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T		•											
SCOM-W LGS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	TOTAL-F												
SCOM-W LGS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	CDEC W												
LGS-W HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	Marie and the second	•											
HVF-W MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T	The second second second												
MLF-W INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T													
INT-W TOTAL-W HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T													
HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T													
HVF-T MLF-T INT-T PS-T SPEC-T TOTAL-T													
MLF-T INT-T PS-T SPEC-T TOTAL-T													
INT-T PS-T SPEC-T TOTAL-T													
PS-T SPEC-T TOTAL-T													
SPEC-T TOTAL-T													
TOTAL-T													
Note: HVF, MLF, INT, PS, SPEC and TOTAL-T are shown in 10 ³ m ³	IUIAL-I	<u> </u>											
			Note: H	IVF, ML	F, INT, I	PS, SPEC	and TO	TAL-T a	re shown	in 10 ³ m	3		

Table 17 - 2016/17 Monthly Customers

				2016/1	7 MON	THLY CU	JSTOME	RS				
CLASS	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR
SRES												
SCOM												
LGS												
HVF												
MLF												
INT												
PS												
SPEC												
TOTAL												
SRES-S												
SCOM-S	BIR											
LGS-S												
HVF-S	ZNI											
MLF-S												
INT-S												
TOTAL-S												
SRES-F												
SCOM-F												
LGS-F												
TOTAL-F												
SRES-W												
SCOM-W												
LGS-W												
HVF-W	A STATE											
MLF-W	MINE											
INT-W												
TOTAL-W												
HVF-T												
MLF-T												
INT-T												
PS-T	The by the											
SPEC-T												
TOTAL-T		Y KAN			49.00		TIEN					1124

Table 18 - 2016/17 Monthly Volumes

		No.	2	016/17	MONT	HLYV	OLUME	(10^3m^3)	TAY YES			
CLASS	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR
SRES	100				5172			in la		CONTRACT.		
SCOM												
LGS												
HVF												
MLF												
INT												
PS												
SPEC												
TOTAL												
SRES-S												
SCOM-S												
LGS-S												
HVF-S												
MLF-S												
INT-S												
CURT-S												
TOTAL-S												
SRES-F												
SCOM-F												
LGS-F												
TOTAL-F												
SRES-W												
SCOM-W												
LGS-W												
HVF-W												
MLF-W												
INT-W												
CURT-W												
TOTAL-W												
HVF-T												
MLF-T												
INT-T PS-T												
SPEC-T												
TOTAL-T												

Table 19 - 2016/17 Monthly Demand

				2016/17	MONTH	ILY DEM	IAND (10) ³ m ³)		ah as		
CLASS	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR
SRES												
SCOM	ļ											
LGS												
HVF												
MLF												
INT												
PS	-											
SPEC	i											
TOTAL												
SRES-S												
SCOM-S	Ì											
LGS-S	Ì											
HVF-S												
MLF-S												
INT-S												
TOTAL-S	ļ											
SRES-F												
SCOM-F												
LGS-F												
TOTAL-F												
SRES-W												
SCOM-W												
LGS-W												
HVF-W												
MLF-W												
INT-W												
TOTAL-W												
HVF-T												
MLF-T												
INT-T												
PS-T												
SPEC-T												
TOTAL-T												

Table 20 - 2016/17 Monthly Average Use

		2016	/17 MO	NTHLY.	AVERAC	GEUSEF	ER CUS	TOMER	(m³/yr)			
CLASS	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	JAN	FEB	MAR
SRES												
SCOM												
LGS												
HVF												
MLF												
INT												
PS												
SPEC	r											
TOTAL												
SRES-S												
SCOM-S												
LGS-S												
HVF-S	t T											
MLF-S												
INT-S	Ť											
TOTAL-S												
SRES-F												
SCOM-F												
LGS-F	•											
TOTAL-F												
SRES-W												
SCOM-W												
LGS-W												
HVF-W												
MLF-W												
INT-W												
TOTAL-W												
HVF-T												
MLF-T												
INT-T												
PS-T												
SPEC-T												
TOTAL-T												
		Note: H	IVF, MIL	F, INT. F	S, SPEC	and TO	TAL-T aı	e shown	in 10 ³ m	3		- 44.1

Table 21 - Annual Average Customers

Long Term				AV	ERAGE C	USTOME	RS			
Fiscal Year	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
SRES						,				
SCOM										
LGS										
HVF										
MLF										
INT										
PS										
SPEC										ļ
TOTAL	-									ļ
SRES-S										i
SCOM-S										
LGS-S										Ì
HVF-S	•									
MLF-S										
INT-S										
TOTALS										
SRES-F										
SCOM-F										
LGS-F										
TOTALF										
SRES-W										į
SCOM-W										
LGS-W										
HVF-W										
MLF-W	7									
INT-W	·									
TOTAL-W										
HVF-T										
MLF-T										
INT-T										
PS-T										
SPEC-T										
TOTAL-T										

Table 22 - Annual Volume

Long Term			HAS	ANI	NUAL VO	LUME (10	³ m ³)			-72/35
Fiscal Year	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
SRES										
SCOM										
LGS										
HVF										
MLF										
INT										
PS										
SPEC										
TOTAL										
SRES-S										
SCOM-S										
LGS-S										
HVF-S										
MLF-S										
INT-S										
CURT-S										
TOTAL-S										
SRES-F										
SCOM-F										
LGS-F										
TOTAL-F										
SRES-W										
SCOM-W										
LGS-W										
HVF-W										
MLF-W										
INT-W										
CURT-W										
TOTAL-W										
HVF-T										
MLF-T										
INT-T										
PS-T										
SPEC-T										
TOTAL-T					7110110					

Table 23 - Annual Average Use

Long Term			ANNU	AL AVER	AGE USE	PER CUS	TOMER	(m³/yr)		
Fiscal Year	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
SRES					1					
SCOM										
LGS										
HVF										
MLF	ļ									
INT	ļ									
PS	ļ									
SPEC	ļ									
TOTAL										
SRES-S										
SCOM-S										
LGS-S	Ì									
HVF-S										
MLF-S										
INT-S										
TOTAL-S										
SRES-F										
SCOM-F										
LGS-F										
TOTAL-F										
SRES-W										
SCOM-W	ļ									
LGS-W										
HVF-W										
MLF-W										
INT-W	*									
TOTAL-W										
HVF-T										
MLF-T										
INT-T										
PS-T										
SPEC-T										
TOTAL-T										
	N	ote: HVF	MLF, INT	r, PS, SPE	C and TO	TAL-T ar	e shown ir	10 ³ m ³		

VARIABILITY AND ACCURACY

Volume Variability

The forecast is prepared with the goal of being an unbiased and accurate predictor of future volumes. It was produced with the expectation that there is a 50% chance that the actual will be higher than forecast, and a 50% chance that the actual will be lower than forecast.

This section presents a probability-based estimate of how much future actual volumes might vary from forecast. This can be used to produce forecasts with a specific probability of occurrence, or can be used to determine the probability of specific volumes occurring. This analysis was done excluding the Special Contract and Power Stations, since their use varies by their level of production and they are forecast using their own three-year historical averages.

The standard deviation and correlation coefficient of historical weather adjusted volume was determined. These were then applied to the forecast to give an estimate of the width of the volume confidence bands. 10% and 90% confidence bands (-/+ 1.28 standard deviations) were selected to represent a low and high scenario.

This calculation gives the variability due to economic effects and year-to-year variation in natural gas use. It does not include variability due to weather which was removed through the use of weather adjusted volumes. The following table summarizes the variability of volume due to economic effects and year-to-year variation:

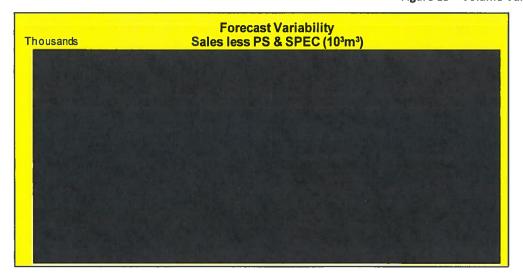
Table 24 - Volume Variability

		Volu	me Variability	(10^3m^3)		
Fiscal Year	Forecast	Economic Std Dev	10% Prob	90% Prob	Bandwidth +/- to Forecast	Bandwidth +/- as % of Forecast
2015/16	The State of the S					
2016/17						
2017/18						
2018/19						
2019/20						
2020/21						
2021/22						
2022/23						
2023/24						Mary Mark
2024/25						

Variability due to economic/year-to-year variation is estimated to be in the first year of the forecast, and in the second year of the forecast. This represents the best level of accuracy possible within the gas volume forecast.

The figure below illustrates the expected bandwidths:

Figure 18 - Volume Variability



Forecast Accuracy

The tables below show the first and second year forecast accuracy of the last eight Natural Gas Volume Forecasts for total volume less Special Contract and Power Stations:

Table 25 - First Year Forecast Accuracy

Forecast Created	Year being Forecast	Forecast 10 ³ m ³	Actual 10 ³ m ³	% Diff	Over/ Under
2014	2014/15				
2013	2013/14				
2012	2012/13				
2011	2011/12	1,577,627			
2010	2010/11	1,601,893			
2009	2009/10	1,612,727			
2008	2008/09	1,604,224			
2007	2007/08	1,581,138			
		programme and the			

Table 26 - Second Year Forecast Accuracy

Forecast Created	Year being Forecast	Forecast 10 ³ m ³	Actual 10 ³ m ³	% Diff	Over/ Under
2013	2014/15		Lead of the		
2012	2013/14		N WILL NIET		
2011	2012/13	PANEL SEED			
2010	2011/12	1,602,442			
2009	2010/11	1,617,771	Harry Co.		
2008	2009/10	1,604,283			
2007	2008/09	1,610,526			

After accounting for Heating Value and Weather Adjusted actual volume based on the normalized weather used in the year the forecast was created, the one year forecast has had an average difference of and the two year forecast has had an average difference of

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ASSUMPTIONS

Economic Assumptions

Economic forecast assumptions are taken from the economic variables that become part of Manitoba Hydro's 2015 Economic Outlook and the 2015 Energy Price Outlook. These documents contain Manitoba Hydro's forecasts of economic variables including prices of electricity, natural gas and oil, Gross Domestic Product (GDP), Manitoba population and residential electric customers.

The following are the economic variables used for this Natural Gas Volume Forecast:

Residential Electric Customers - The number of Manitoba residential customers is forecast to increase by 1.3% (5,902 units) in 2015/16 and averages 1.1% per year over the forecast period. This compares to a historical average increase of 1.1% per year over the last ten years. This is used in the SGS Residential customer forecast and the SGS Commercial and LGS customer forecast.

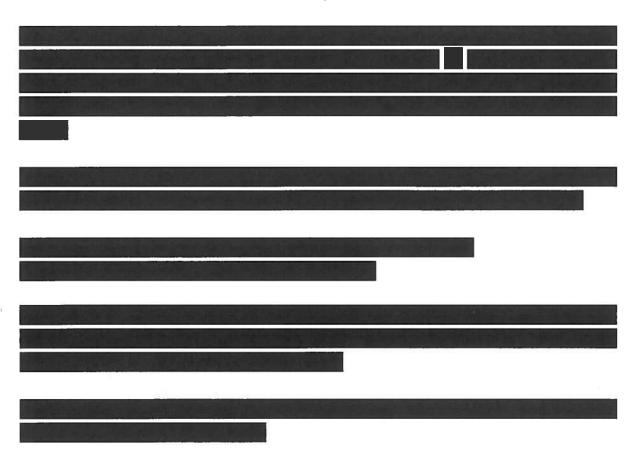
Electricity to Gas Price Ratio - The electricity price forecast is based on the Consumer Price Index (CPI) and rate increase projections contained in the Integrated Financial Forecast. The real electricity price is forecast to increase by 2.8% in 2015/16 and then increase between 1.8% and 2.0% per year throughout the remainder of the forecast period. Manitoba Hydro views the natural gas price forecast as commercially sensitive information. Consistent with the Clean Environment Commission and Electric General Rate Application, this information will not be publicly disclosed. The ratio of prices is used in the SGS Residential customer forecast.

Gross Domestic Product (GDP) - Real economic growth in Manitoba is forecast to be 2.5% in 2015/16. It is expected to be 2.5% in 2016/17, 2.2% in 2017/18 and then drop to 1.8% by 2018/19 and then stay at that level for the remainder of the forecast period. This is used in the GS Mass Market Small and Medium. This is used in the electric GS Mass Market forecast which is then used SGS Commercial and LGS customer forecast.

Heating Value Assumptions

The Heating Value is the amount of energy per unit of gas and it varies month to month. All forecast volumes are standardized to their energy equivalent Heating Value of GJ/10³m³.

Weather Effect and Normal Weather Assumptions



Demand Side Management (DSM) in the Forecast

This forecast reflects future DSM savings arising from future Power Smart natural gas offerings and market engagement as outlined in Manitoba Hydro's 2015/16 Power Smart Plan. Savings due to DSM programs to date are embedded in the historical data that is the basis for this forecast. The current level of past achieved DSM savings is assumed to remain in place throughout the future. Future DSM savings arising from future Power Smart offerings and market engagement above those already achieved are included as outlined in Manitoba Hydro's 2015/16 Power Smart Plan.

METHODOLOGY

SGS Residential Methodology

The SGS Residential Basic forecast was derived from population forecasts produced by the Economic Analysis Department, combined with an appliance forecast developed in an end use model. These numbers are part of Manitoba Hydro's 2015 Economic Outlook.

- 1. Forecast All Dwellings The forecast of Manitoba residential customers in Manitoba Hydro's 2015 Economic Outlook was used. The customer forecast was based on the average of several Manitoba population forecasts from various external agencies multiplied by a forecast of the people per customer ratio. The customer forecast was reduced by about 0.5% to account for customers with multiple services to obtain the forecast of individual dwellings.
- 2. Forecasting Existing Dwellings Existing gas-serviced dwellings were broken down by dwelling type (single detached, multi attached, and individually metered apartment suites) within Winnipeg and Gas Available regions outside Winnipeg. Demolitions were estimated and customer switches of their space heating fuel were taken into account.
- 3. Historical Space Heating Systems The number of historical dwellings by type and region were each divided into four space heating systems: Gas High-Efficiency Furnace, Gas Mid-Efficiency Furnace, Gas Standard-Efficiency Furnace and Gas Boiler. Percentages of each heat type in existing dwellings were taken from the 2014 Residential Energy Use Survey.
- 4. Forecast of Space Heating Systems in New Dwellings For the Electric Forecast, econometric equations were developed to forecast the number of electric space heating systems in new single detached and multi attached dwellings in Winnipeg and South Gas regions. The remaining new dwellings would all be heated with natural gas, and were considered to be the number of new gas heated dwellings.
- 5. Forecast of Space Heating Systems in Existing Dwellings The average age of heating systems in existing dwellings was determined from the 2014 Residential Energy Use Survey. The number of replacements was estimated using a Weibull distribution based on the average age of each furnace type from the survey. Switches of furnace types were

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estimated using survey respondents in older dwellings with newer heating systems. Their former heating system was verified using billing system notes and information.

- 6. Forecast of Water Heating Systems in New and Existing Dwellings Natural gas water heater saturations and average age were estimated for dwellings with and without natural gas space heat using information from the 2009 and 2014 Residential Energy Use Surveys. The number of replacements was forecast using a Weibull distribution based on the average age of water heaters. Switches between fuels were taken into account when forecasting future numbers of water heaters.
- 7. Other End Uses Gas cooking, gas clothes dryers and miscellaneous natural gas use were forecast by dwelling type using the saturation data from the 2014 Residential Energy Use Survey. Additional usage resulting from the Heating Fuel Choice Initiative was determined.
- 8. Space Heating, Water Heating and Appliance Usage Conditional Demand Analysis using the 2009 Residential Survey data combined with 2009/10 customer annual use from billing data was used to derive the average annual energy use for different types of heating systems and natural gas appliances for existing and for newer dwellings. These average uses were multiplied by the number of each type of system and appliance to get the forecast of total energy use.
- 9. Determine Total Usage The forecast number of appliances multiplied by the average use of each appliance determined the volume forecast. The forecast of Codes and Standards energy savings and projected savings of future Demand Side Management Programs as outlined in the 2015/16 Power Smart Plan were subtracted.

SGS Commercial and LGS Methodology

Customer Forecast

The combined number of SGS Commercial and LGS customers was generated for each year of the forecast period. The annual increase in customers was forecast using historical correlation with GS Mass Market customer growth, which was forecast by Manitoba GDP and residential electric customers.

The yearend historical customer data from 1999/2000 to 2014/15 was modeled and the parameters are as follows:

Number of Customers (t)

=10302.443 + 0.221 x GSMM

GSMM

- General Service Mass Market Customer Count

R-squared: 90.2%

T-stats:

Constant

: 8.24

GSMM

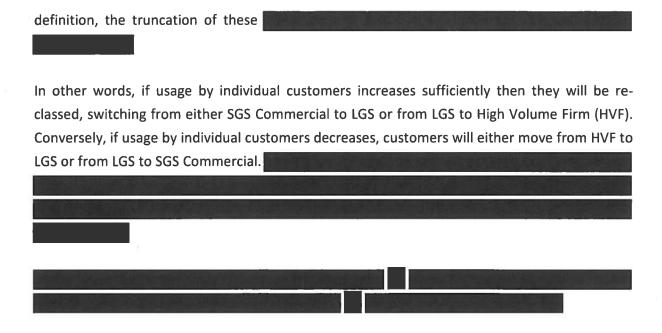
: 11.34

The number of Commercial Customers for each year was split into SGS Commercial and LGS classes based on historical trends. In 2014/15, of the customers were in the SGS Commercial class and were in the LGS class. The SGS Commercial percentage is forecast to by 2024/25. The in the percentage of SGS Commercial customers

When a customer's expected annual volume reduces to less than 15,000 m³, the customer is eligible to be switched from the LGS customer class to the SGS Commercial customer class.

Average Use

The SGS Commercial class consists of customers using up to 15,000 m³ of gas per year, and the LGS class consists of customers using between 15,000 m³ and 680,000 m³ per year. By



Volume Forecast

The forecasts for customers and average use are multiplied together for each class to calculate demand in m³ for SGS Commercial and LGS.

SGS Commercial Total Use (t)

- = SGS Commercial Number of Customers (t)
- x SGS Commercial Average Annual Use (t)

LGS Total Use (t)

- = LGS Number of Customers (t)
- x LGS Average Annual Use (t)

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Top Consumers Methodology

The Top Consumers forecast was prepared on a customer by customer basis. Each customer

was analyzed individually, and a monthly forecast was determined for the first three forecast

years.

To help forecast monthly volumes, historic monthly consumption for the past three years was

first adjusted to the standard heating value and then weather adjusted. For customers with

unchanging usage over that time, the three years of monthlies were averaged and used. In

cases where the historic volume trended up or down, the last year of monthlies or two years of

averaged monthlies was used.

Similarly, historic monthly recorded demand for the past three years was used to help forecast

monthly peak consumption. From the forecast of customer monthly peaks, the billed demand

was determined. Billed demand is the highest recorded demand of the current month and the

previous 11 months, but only from the winter months of November through March.

Information on individual company operating plans was collected from industry news and from

Manitoba Hydro's Key and Major Account representatives. This information was used to help

forecast volume and demand changes, rate classifications and gas supply arrangements. The

first three years of the forecast includes production-related and square footage related

increases that are confirmed to be taking place.

For each Top Consumer customer, year three of their forecast is used from year four and on.

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Monthly Allocations

Monthly Customers

The monthly historical growth pattern of the number of customers in each rate class is used to allocate annual growth throughout the year. This way, customer growth is reflected more accurately to the month in which it will occur.

Table 27 – Monthly Allocation of Customer Changes

	MONTHLY ALLOCATION OF CUSTOMER CHANGES												
Class	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
SGS Res													
SGS Con	1												
LGS													

Monthly Volumes



Table 28 – Monthly Allocation of Volume

MONTHLY ALLOCATION OF VOLUME												
Class	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR
SGS Res	(n-1)	H. 18 JH W		TOWN				TO BE SEE	5-86		TO THE	
	them a											
SGS Com	10.8											
LGS												

GLOSSARY OF TERMS

Small General Service Class (SGS) – Residential and small commercial customers with an annual volume of less than 15,000 m³ per year. If their volume is higher, then it is in their favor to switch to Large General Service (LGS) which has a higher basic charge but lower per unit charge. In this document, SGS Residential is abbreviated as SRES, and SGS Commercial is abbreviated as SCOM.

Large General Service Class (LGS) – Medium-sized commercial and industrial customers (and a few residential customers) with annual consumption greater than 15,000 m³ and less than 680,000 m³.

High Volume Firm Class (HVF) – Commercial and industrial customers where annual consumption exceeds 680,000 m³.

Mainline Firm Class (MLF) – Commercial and industrial customers where annual consumption exceeds 680,000 m³ and where the customer is served directly from the Company's transmission system or through dedicated distribution facilities at high pressure.

Interruptible Class (INT) – Commercial and industrial customers where annual consumption must exceed 680,000 m³, and elect to allow their service to be interrupted upon notice. The customer pays a lower cost for this service. Manitoba Hydro may help the customer find alternative service, but the customer is expected to have an alternative energy source available.

Curtailed Interruptible – Refers to the gas that was not supplied to interruptible customers due to the interruptions.

Quarterly Service (-S) – This is the Quarterly Service of gas that Manitoba Hydro procures (System Supply) and delivers to its gas customers. The primary gas rate is set every three months.

Fixed Rate Primary Gas Service (-F) – This is the 1-year, 3-year and 5-year contract service that Manitoba Hydro procures (System Supply) and delivers to its gas customers.

Western Transportation Service (WTS or -W) — This is an unbundled service pertaining only to the primary gas portion of the gas consumed at a customer's facility. Under WTS, Manitoba

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Hydro receives, manages and re-delivers broker-provided primary gas. Manitoba Hydro bills WTS customers for the primary gas portion of the customer's consumption on behalf of the broker (using the broker's primary gas price) and remits the money collected to the broker.

Transportation Service (T-Service or -T) – Under this service, the customer is obligated to arrange for the supply and delivery of its own gas to the Manitoba gate stations. The gas is then received by Manitoba Hydro at the Manitoba gates and transported to the customer's plant gate. Manitoba Hydro does not purchase the gas for the customer. Charges for this service include delivery on the Manitoba Hydro system but do not include any supply cost component other than a charge to cover a proportionate share of unaccounted for gas losses on the Manitoba Hydro distribution system.

Billed Demand – This is the level at which customers are assessed a Demand Charge. For High Volume Firm, Mainline and Interruptible customers, the Monthly Billed Demand is equal to each customer's maximum recorded daily usage during the last twelve months, but only in the months covering the November to March period.

Recorded Demand – This is the maximum recorded daily usage during a month. Daily usage is based on a gas day that begins that day at 9 a.m. and ends 24 hours later on the next day.

Gas Year – This is the year from November to October. This is the fiscal year used for gas purchasing.

Cubic Meter (m³) – The unit of measurement used for natural gas volumes.

Ten-Three (10³m³) – A thousand cubic meters.

Ten-Three-M-Six (10³m⁶) – A million cubic meters.

A Thousand cubic feet (Mcf) – The older form of measurement for natural gas volumes prior to the metric system. 1 Mcf = 28.32784 m^3 .

Gigajoule (GJ) - One billion joules. A joule is a units of energy used to measure energy content.

Heating Value (HV) – A Measure of the energy content of gas. Units are given in $GJ/10^3 m^3$. The Heating Value varies depending on the richness of the gas, but normal is considered to be $GJ/10^3 m^3$. To convert GJ to $10^3 m^3$, divide the GJ by the Heating Value.

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