Approved May 24, 2011

2009-2010

Power Smart Annual Review

Power Smart Planning, Evaluation & Research Department
Customer Care & Marketing Business Unit

Manitoba Hydro
POWER SMART

EXECUTIVE SUMMARY

The 2009/10 Power Smart Annual Review reports the energy/demand savings, customer energy cost savings, customer participation and associated greenhouse gas emission reductions that have been achieved through Manitoba Hydro's Power Smart initiative, including an assessment against the 2009/10 planned targets outlined in the *2009 Power Smart Plan*.

The Power Smart initiative, including persisting savings, achieved 1,660 GW.h and 519 MW in electric savings, 47 million cubic metres in natural gas savings and 1,211 thousand tonnes of greenhouse gas emission reductions in 2009/10.

The electric savings in 2009/10 from the Power Smart initiative including persisting savings are equivalent to one quarter of Winnipeg's power needs, and the natural gas savings including persisting savings are equivalent to 80% of Brandon's natural gas needs. Together, these energy savings are equivalent to taking an estimated 242 thousand cars off the road for one year.

In 2009/10 alone, the electric Power Smart program achieved 264 GW.h and 218 MW in electric savings (at generation) which was below the planned savings of 311 GW.h and 253 MW. The natural gas Power Smart program achieved savings of 7.4 million cubic metres which was below the planned targets of 7.9 million cubic metres.

Below are the significant drivers of the 47 GW.h energy variance:

Energy savings for the Performance Optimization Program and the Bioenergy Optimization Program were 13 GW.h and 14 GW.h above plan respectively.

Delayed program launch of the Water & Energy Saver Program, Fridge Recycling Program and delayed program activity of the Power Smart Energy Manager Program accounted for 19 GW.h of the negative variance.

Overly optimistic planned codes and standards savings resulted in a variance of 19 GW.h.

The Commercial Lighting Program was 14 GW.h below energy savings targets, however over the last two years, the energy savings have increased by 14%. The in-year shortfall is a result of a higher proportion of program participants who took on smaller lighting projects than in past years.

The Compact Fluorescent Lighting (CFL) Program fell short of planned energy savings by 9 GW.h, although the program succeeded in a year over year energy savings improvement of 64%. The School initiative exceeded their target by 13 GW.h, although the shortfall in the Instant Rebate initiative more than offset those gains. The Instant Rebate initiative was 20 GW.h behind plan.

The Lower Income Energy Efficiency Program and the Commercial Network Energy Manager Program's energy savings were 8 GW.h and 6 GW.h below plan respectively; both due to lower than planned program participation. Nevertheless, the Lower Income Energy Efficiency Program achieved a year over year energy savings improvement of 50%.

The primary explanation for the 35 MW negative demand variance was the Curtailable Rate Program. The program was 28 MW below plan due to the indefinite shutdown during the 2nd quarter of 2009/10 of one of its four industrial participants.

Total Power Smart expenditures in 2009/10 were $44 million, which consisted of $33 million for electric initiatives and $12 million for natural gas initiatives.

The combined Total Resource Cost (TRC) ratio for electric and natural gas incentive-based programs, including support costs and interactive effects, was 2.2.

The Rate Impact Measure (RIM) ratio for electric incentive based programs, including support costs, was 1.3, and the average Levelized Utility Cost was 2.0¢/kW.h. The RIM ratio, (including support costs and interactive effects) for natural gas incentive-based programs, was 0.8 and the average Levelized Utility Cost was 14.1¢/m^3.

The cumulative cost of the Power Smart initiatives was $337 million in nominal dollars, $290 million was spent on electric initiatives and $47 million was spent on natural gas initiatives.

The participant bill reduction due to 2009/10 Power Smart results and persisting savings amounts to an annual reduction of $68 million, with $51 million in reduced electricity bills and $17 million in reduced natural gas bills. By customer sector, $22 million was saved in the residential sector, $25 million in the commercial sector and $21 million in the industrial sector. The participant bill reduction relates only to incentive-based programs and customer service initiatives.

Cumulative customer bill reductions are approximately $470 million, consisting of $406 million in electric bills and $64 million in natural gas bills.

Awareness levels of the Power Smart brand continue to remain high with 93% of Manitoba respondents saying they recognize the brand name. Customers continue to report the strongest association between Power Smart and *Energy Efficiency* with the vast majority (86%) of respondents agreeing that the brand projects that message.

This report provides an integrated approach to evaluating the net energy savings achieved through the Power Smart initiative. The results reported are due to the combined electricity and natural gas energy conservation efforts. In this regard, any increased natural gas consumption (due to interactive effects) resulting from electricity efficiency efforts are netted against savings achieved directly through natural gas conservation.

Manitoba Hydro's Power Smart portfolio consists of electricity and natural gas focused initiatives, with each initiative falling into one of the following categories:

- Customer service initiatives & cost recovery programs;
- Codes & standards efforts;
- Incentive-based promotional programs,
    - Efficiency programs,
    - Customer self-generation programs; or
    - Rate load management programs.

2009/10 Electricity Results

The following tables outline the electricity savings achieved through the Power Smart portfolio during 2009/10 and provide a comparison between achieved results and planned targets, where applicable:

Exhibit E.1
Annual GW.h Savings (at generation) - Power Smart Portfolio

	Actual	2009/10 Plan^	Total*
		GW.h	
INCENTIVE-BASED PROGRAMS	212	241	1,205
CODES & STANDARDS	48	67	430
CUSTOMER SERVICE INITIATIVES	3	3	25
OVERALL IMPACT	264	311	1,660

^ Plan estimates are from the *2009 Power Smart Plan*.
* Savings include actual + persisting results.
Note: Figures may not add due to rounding.

Exhibit E.2
Annual Average Winter MW Savings (at generation) - Power Smart Portfolio

	Actual	2009/10 Plan^	Total*
		MW	
INCENTIVE-BASED PROGRAMS	208	241	406
CODES & STANDARDS	8	11	105
CUSTOMER SERVICE INITIATIVES	2	1	8
OVERALL IMPACT	218	253	519

^ Plan estimates are from the *2009 Power Smart Plan*.
* Savings include actual + persisting results.
Note: Figures may not add due to rounding.
MW savings are based on the average of the winter AM & PM system peak savings.

Exhibit E.3
2009/10 Power Smart Portfolio Electricity Costs

Power Smart Portfolio	2009/10
	millions of dollars
INCENTIVE BASED PROGRAMS	
Efficiency Programs	21.6
Customer Self Generation Programs	1.5
Rate/Load Management Programs	5.8
	28.8
SUPPORT COSTS & CUSTOMER SERVICE INITIATIVES & STANDARDS	
	3.8
TOTAL ELECTRICITY PROGRAM COSTS	32.6

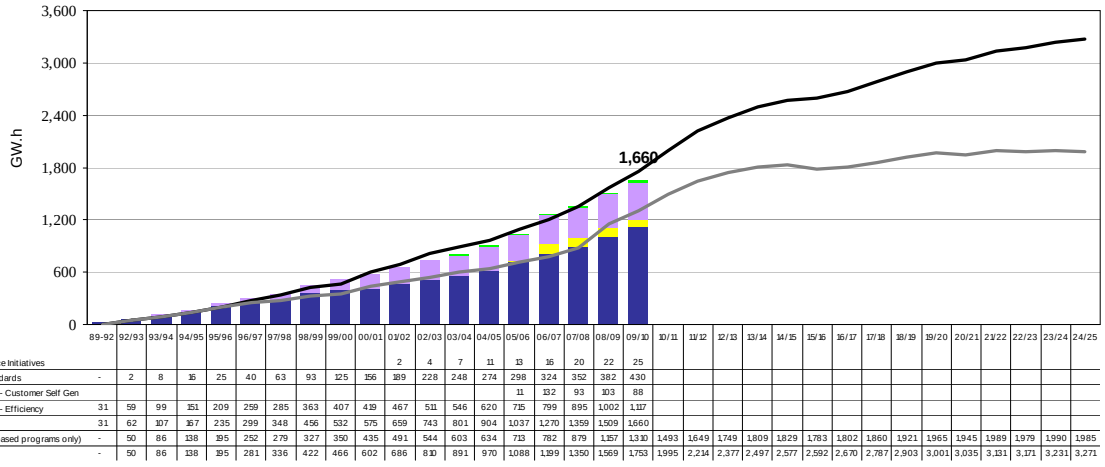
Note: Figures may not add due to rounding.

Total Electricity Results (2009/10 Results + Persisting Savings)

In 2009/10, Power Smart initiatives saved a total of 1,660 GW.h and 519 MW which were 5% and 6% below their respective planned 2009/10 energy and demand savings. 2009/10 total savings represent 51% and 57% respectively of 2024/25 forecast energy and demand savings. To date, $290 million has been invested in Power Smart electric activities.

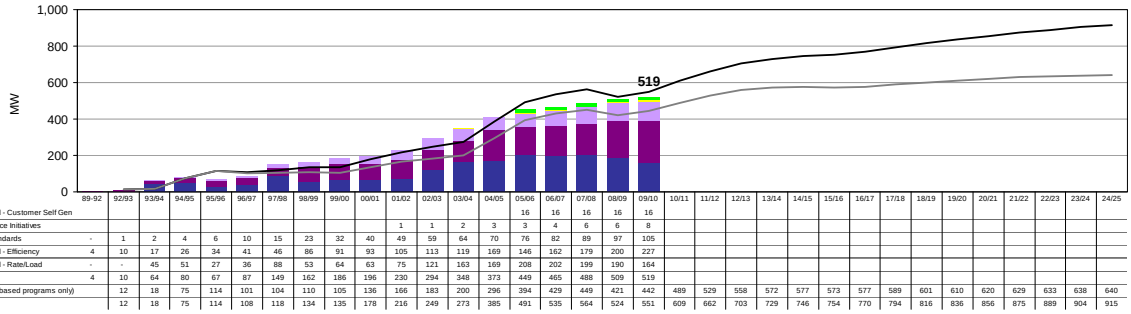
The following graphs present the energy and winter average demand savings achieved and corresponding targets:

Exhibit E.4
Electric Energy Savings - Power Smart Portfolio
Total Savings Achieved vs. Plan
at generation



	89-92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25
Customer Service Initiatives											2	4	7	11	13	16	20	22	25															
Codes and Standards	-	2	8	16	25	40	63	93	125	156	189	228	248	274	298	324	352	382	430															
Incentive-based - Customer Self Gen															11	132	93	103	88															
Incentive-based - Efficiency	31	59	99	151	209	259	285	363	407	439	467	511	546	620	715	799	895	1,002	1,117															
Total Achieved	31	62	107	167	235	299	348	456	532	575	659	743	801	904	1,037	1,270	1,359	1,509	1,660															
Plan (incentive-based programs only)	-	50	86	138	195	252	279	327	350	435	491	544	603	634	713	782	879	1,157	1,310	1,493	1,649	1,749	1,809	1,829	1,783	1,802	1,860	1,921	1,965	1,945	1,989	1,979	1,990	1,985
Plan	-	50	86	138	195	281	336	422	466	602	686	810	891	970	1,088	1,199	1,350	1,569	1,753	1,995	2,214	2,377	2,497	2,577	2,592	2,670	2,787	2,903	3,001	3,035	3,131	3,171	3,231	3,271

Exhibit E.5
Average Winter Demand Savings - Power Smart Portfolio
Total Savings Achieved vs. Plan
at generation



	89-92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25
Incentive-based - Customer Self Gen															16	16	16	16	16															
Customer Service Initiatives											1	1	2	3	3	4	6	6	8															
Codes and Standards -		1	2	4	6	10	15	23	32	40	49	59	64	70	76	82	89	97	105															
Incentive-based - Efficiency 4	10	17	26	34	41	46	86	91	93	105	113	119	169	146	162	179	200	227																
Incentive-based - Rate/Load -	-	45	51	27	36	88	53	64	63	75	121	163	169	208	202	199	190	164																
Total Achieved 4	10	64	80	67	87	149	162	186	196	230	294	348	373	449	465	488	509	519																
Plan (incentive-based programs only)	12	18	75	114	101	104	110	105	136	166	183	200	296	394	429	449	421	442	489	529	558	572	577	573	577	589	601	610	620	629	633	638	640	
Plan	12	18	75	114	108	118	134	135	178	216	249	273	385	491	535	564	524	551	609	662	703	729	746	754	770	794	816	836	856	875	889	904	915	

2009/10 Natural Gas Results

The Power Smart portfolio realized natural gas savings of 7.4 million cubic metres during 2009/10, 6% less than planned.

Exhibit E.6
Annual Natural Gas Savings

	Actual	2009/10 Plan^	Total*
		millions of cubic metres	
PROGRAM & INTIATIVE			
Incentive-Based Programs	8.2	8.9	34.1
Customer Service Intiatives	1.9	4.2	18.3
Codes & Standards	0.5	-	3.5
	10.7	13.1	55.9
INTERACTIVE EFFECT			
Incentive-Based Interactive effect with Electric Programs	(3.3)	(5.2)	(8.6)
	(3.3)	(5.2)	(8.6)
NET IMPACT OVERALL	7.4	7.9	47.4

^ Plan estimates are from the *2009 Power Smart Plan*.
* Savings include actual + persisting results.
Note: Figures may not add due to rounding.

Exhibit E.7
2009/10 Power Smart Portfolio of Natural Gas Costs

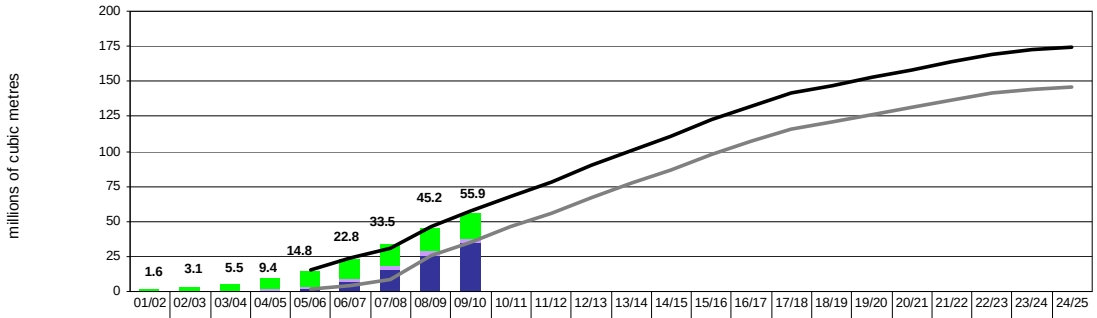
Power Smart Portfolio	2009/10
	millions of dollars
INCENTIVE BASED PROGRAMS	9.8
SUPPORT COSTS, CUSTOMER SERVICE INITIATIVES & STANDARDS	2.0
TOTAL NATURAL GAS PROGRAM COSTS	11.8

Note: Figures may not add due to rounding.

Total Natural Gas Results (2009/10 Results + Persisting Savings)

In 2009/10, the Power Smart portfolio saved 56 million cubic metres of natural gas, which was 2% below the planned targets. To date, $47 million has been invested in Power Smart natural gas activities.

Exhibit E.8
Natural Gas Savings - Power Smart Portfolio
Total Savings Achieved vs. Plan



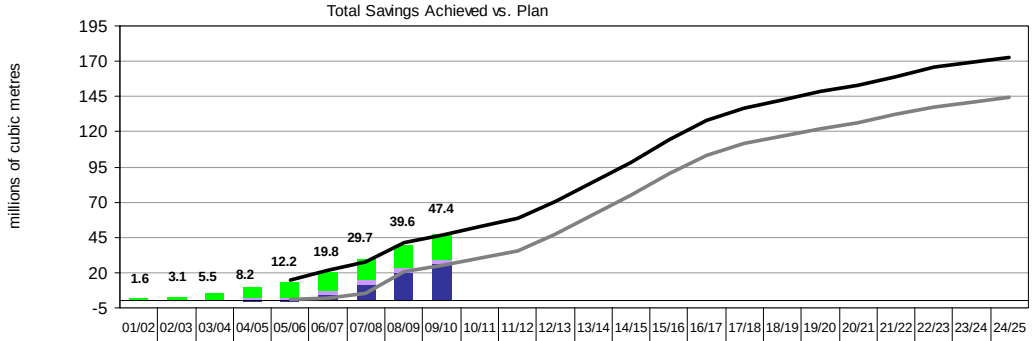
	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25
Customer Service Initiatives	1.2	2.4	4.3	7.7	11.3	13.2	15.3	16.4	18.3															
Codes & Standards	0.3	0.7	1.1	1.6	2.0	2.4	2.7	3.0	3.5															
Incentive-Based Efficiency	0.0	0.1	0.1	0.2	1.6	7.3	15.5	25.9	34.1															
Total Achieved	1.6	3.1	5.5	9.4	14.8	22.8	33.5	45.2	55.9															
Plan (incentived-based programs only)					1.5	4.3	9.0	25.7	35.6	46.0	55.6	66.8	77.3	86.8	98.0	107.7	115.9	121.1	126.1	131.4	136.7	141.7	144.1	145.6
Plan					15.4	23.9	31.2	46.4	57.3	68.1	78.3	89.9	100.8	110.7	122.4	132.5	141.2	146.9	152.4	158.2	164.0	169.5	172.2	173.9

Note: Figures may not add due to rounding.

Natural Gas Integrated Results

Some electric Power Smart programs have interactive effects which increase the consumption of natural gas. For example, a more energy efficient lighting system emits less heat and therefore results in more energy required for space heating.

Exhibit E.9
Integrated Natural Gas Savings - Power Smart Portfolio
Total Savings Achieved vs. Plan



	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25
Customer Service Initiatives	1.2	2.4	4.3	7.7	11.3	13.2	15.3	16.4	18.3															
Codes & Standards	0.3	0.7	1.1	1.6	2.0	2.4	2.7	3.0	3.5															
Incentive-Based Integrated	0.0	0.1	0.1	-1.0	-1.0	4.2	11.7	20.3	25.6															
Total Achieved	1.6	3.1	5.5	8.2	12.2	19.8	29.7	39.6	47.4															
Integrated Plan (incentive-based programs only)					0.8	1.9	5.7	20.8	24.6	30.1	35.6	47.4	60.9	74.5	90.0	103.4	111.6	116.8	121.9	126.5	131.9	137.7	140.9	144.0
Integrated Plan					14.8	21.5	27.9	41.4	46.3	52.3	58.2	70.5	84.3	98.4	114.4	128.2	136.9	142.6	148.2	153.3	159.2	165.5	169.0	172.3

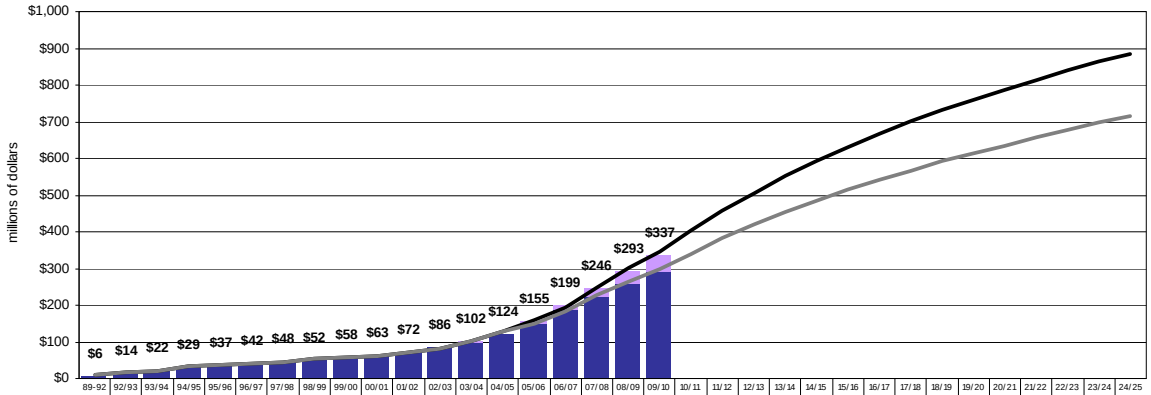
Note: Figures may not add due to rounding.

Power Smart Utility Costs

Total Power Smart expenditures in 2009/10 were $44 million, of which $33 million was spent on electricity and $12 million was spent on gas initiatives. Overall, Power Smart expenditures were 19% below the budget of $54 million. The positive spending variance was caused primarily by lower electricity program spending than budgeted; specifically electric efficiency spending was 18% below budget. Natural gas efficiency spending was 11% below budget.

Overall cumulative Power Smart expenditures of $337 million represent 38% of the overall cumulative 2024/25 budget, as reported in the IFF-09. Cumulative expenditures are 3% lower than the budgeted amount of $347 million to 2009/10. The following graph depicts the annual expenditures against the planned expenditures.

Exhibit E.10
Utility Costs- Power Smart Portfolio
Cumulative Total Utility Cost vs. 2024/25 Plan
nominal dollars

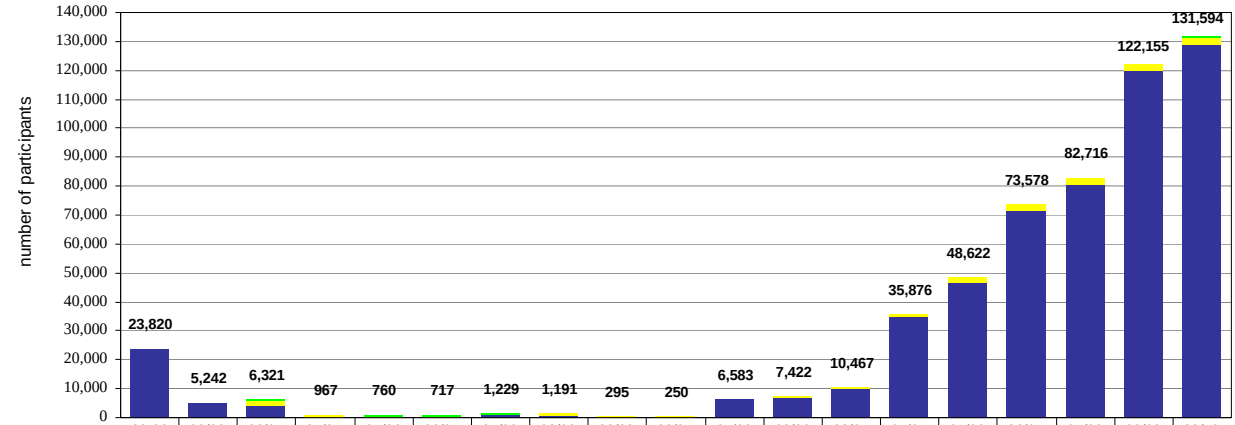


	89-92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25
Eval - Natural Gas	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1	$1	$2	$3	$6	$14	$24	$35	$47															
Eval - Electricity	$6	$14	$22	$29	$37	$42	$48	$52	$58	$63	$71	$84	$100	$121	$149	$185	$222	$257	$290															
Total Eval	$6	$14	$22	$29	$37	$42	$48	$52	$58	$63	$72	$86	$102	$124	$155	$199	$246	$293	$337															
Plan- Electricity	$10	$15	$20	$32	$36	$41	$44	$54	$58	$63	$72	$80	$100	$128	$150	$182	$225	$265	$298	$341	$383	$421	$455	$485	$514	$541	$567	$592	$614	$635	$657	$678	$699	$715
Plan- Electricity & Natural Gas	$10	$15	$20	$32	$36	$41	$44	$54	$58	$63	$72	$81	$102	$130	$161	$195	$248	$302	$347	$403	$457	$507	$552	$592	$631	$669	$702	$733	$760	$786	$813	$839	$865	$884

Customer Participation

There were over 131 thousand participants in Power Smart customer service initiatives and incentive-based programs during 2009/10, and 560 thousand participants cumulatively.

Exhibit E.11
Power Smart Program Participation



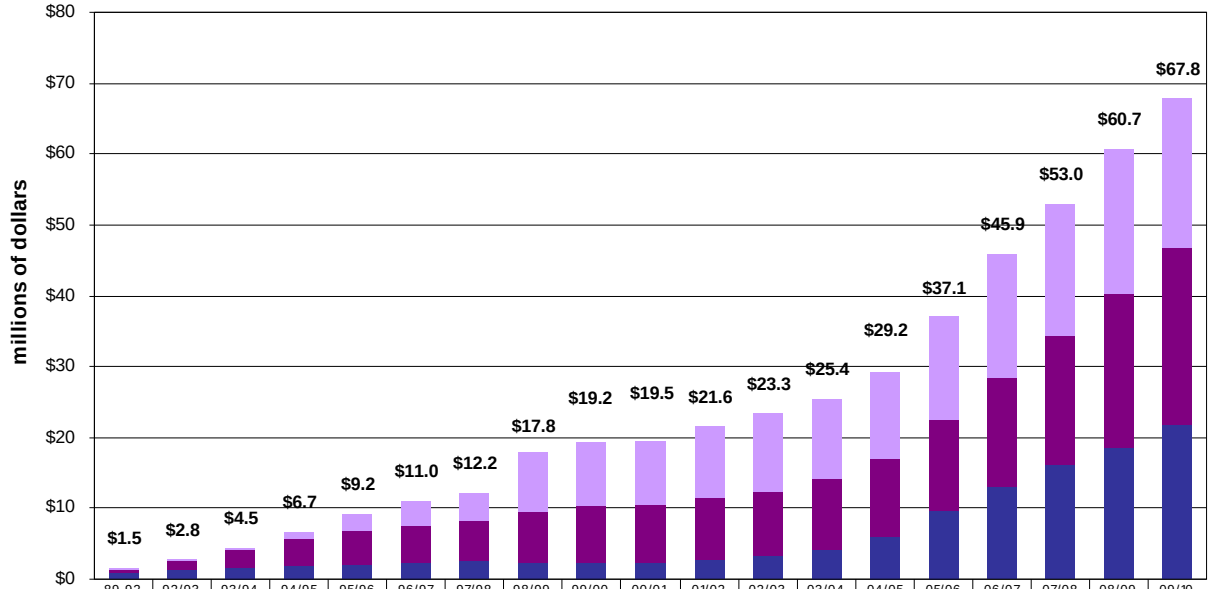
	89-92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10
Industrial	24	157	202	229	185	182	195	8	4	9	17	25	32	48	50	49	81	99	116
Commercial	65	273	1,959	738	575	334	325	502	291	241	305	364	538	1,020	1,849	2,364	2,041	2,136	2,491
Residential	23,731	4,812	4,160	-	-	201	709	681	-	-	6,261	7,033	9,897	34,808	46,723	71,165	80,594	119,920	128,987
Total Achieved	23,820	5,242	6,321	967	760	717	1,229	1,191	295	250	6,583	7,422	10,467	35,876	48,622	73,578	82,716	122,155	131,594

Note: Includes electric and natural gas participants.
Customers may participate in more than one Power Smart program.
Participation for codes & standards is excluded.
Curtailable Rates Program participation is included in the Industrial sector.
Participation in the CFL program is defined as one household.

Customer Bill Reductions

Power Smart customer service initiatives and incentive-based programs saved participating customers $68 million in energy bills during 2009/10 and $470 million cumulatively on electricity and natural gas bills to date.

Exhibit. E.12
Combined Electricity & Natural Gas Customer Bill Reduction (2009$)
Annual Reductions to Date by Sector



	89-92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10
Industrial	$0.0	$0.3	$0.4	$1.0	$2.3	$3.5	$4.0	$8.3	$9.0	$9.0	$10.1	$10.9	$11.3	$12.2	$14.6	$17.4	$18.6	$20.3	$21.1
Commercial	$0.5	$1.2	$2.4	$3.7	$4.9	$5.3	$5.7	$7.1	$7.8	$8.1	$8.6	$9.1	$10.1	$11.0	$12.8	$15.4	$18.4	$21.8	$24.8
Residential	$1.0	$1.4	$1.6	$1.9	$2.0	$2.3	$2.5	$2.4	$2.4	$2.3	$2.9	$3.3	$4.1	$5.9	$9.7	$13.1	$16.1	$18.6	$21.9
Total	$1.5	$2.8	$4.5	$6.7	$9.2	$11.0	$12.2	$17.8	$19.2	$19.5	$21.6	$23.3	$25.4	$29.2	$37.1	$45.9	$53.0	$60.7	$67.8

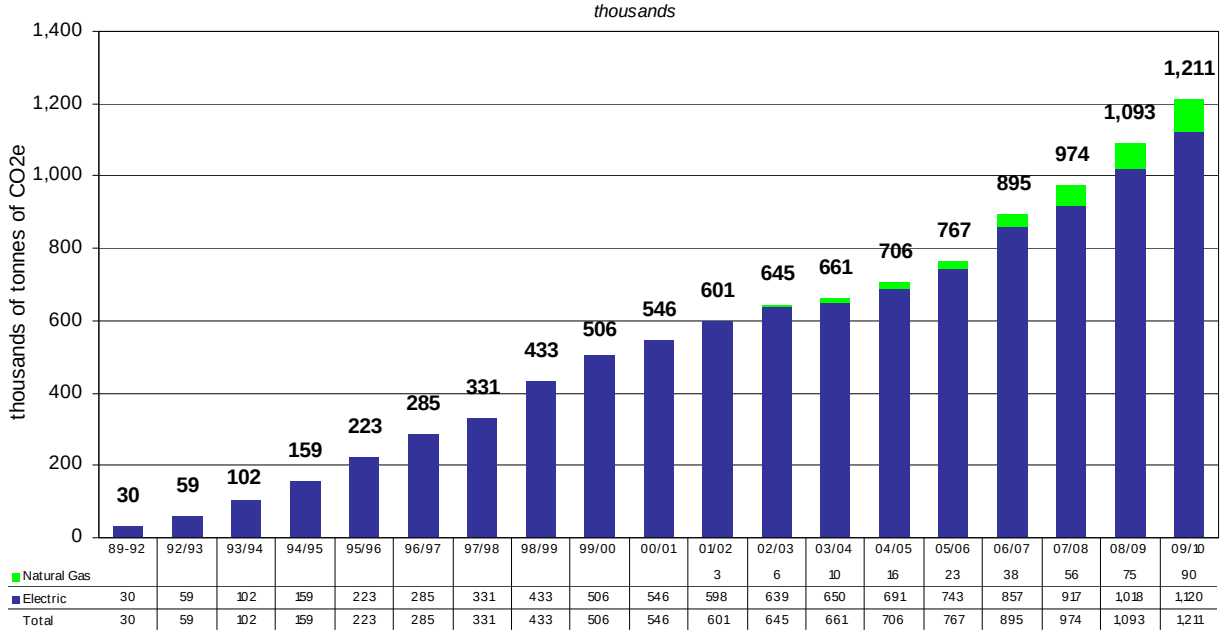
Note: Includes electric and natural gas participants.
Figures may not add due to rounding.
Bill reductions exclude savings due to codes & standards.
Demand savings resulting from the Curtailable Rates Program are excluded from this analysis.
Natural gas bill reduction includes primary and distribution rates only.

The annual bill reduction for participating customers due to actual and persisting results in 2009/10 of $68 million is comprised of $51 million of savings on electricity bills and $17 million on natural gas bills.

Greenhouse Gas Reductions

The 1,660 GW.h savings from electricity and 47 million cubic metres savings from natural gas Power Smart programs resulted in greenhouse gas reduction of approximately 1,211 thousand tonnes of carbon dioxide equivalent emissions. This is comparable to removing approximately 242 thousand vehicles off the road for one full year. The majority (92%) of the greenhouse gas emission reductions result from electric Power Smart activity through indirect emission reductions from Manitoba Hydro export sales displacing coal and natural gas fuelled generation outside of Manitoba. The remaining (8%) emission reductions are direct reductions that occur as a result of lower natural gas consumption in Manitoba.

Exhibit E.13
Total Annual Greenhouse Gas Emission Reductions
Due to Electric & Natural Gas Savings
thousands



	89-92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10
Natural Gas											3	6	10	16	23	38	56	75	90
Electric	30	59	102	159	223	285	331	433	506	546	598	639	650	691	743	857	917	1,018	1,120
Total	30	59	102	159	223	285	331	433	506	546	601	645	661	706	767	895	974	1,093	1,211

Note: Figures may not add due to rounding.

The Affordable Energy Fund

The Affordable Energy Fund was established during 2006/07 through the Winter Heating Cost Control Act. The purpose of the Fund is to provide support for programs and services that achieve specific objectives including encouraging energy efficiency and conservation through programs and services for rural and northern Manitobans, low income customers and seniors and encouraging the use of alternative energy sources such as renewable energy.

Exhibit E.14 outlines the Affordable Energy Fund expenditures in 2009/10 and cumulatively.

Exhibit E.14
Summary of Affordable Energy Expenditures

	2006/07	2007/08	2008/09	2009/10	Cumulative
			thousands of nominal dollars		
Lower Income Expenditures					
Lower Income/Community Based Initiative	256	219	893	1,672	3,039
Community Support and Outreach	0	0	35	130	166
	256	219	928	1,802	3,205
Support Expenditures					
Geothermal Support	619	270	92	104	1,086
Oil and Propane Heated Residential Homes	0	75	85	31	190
Special Projects					
Residential Energy Assessment Service	*0*	*61*	*241*	*85*	*387*
Oil and Propane Furnace Replacement	*0*	*0*	*6*	*36*	*42*
Solar Water Heating	*0*	*0*	*89*	*119*	*208*
Power Smart Residential Loan	*0*	*0*	*0*	*130*	*130*
	619	406	513	506	2,044
Community Energy Development	0	0	0	750	750
TOTAL EXPENDITURES	875	625	1,441	3,058	5,999

Lower Income Furnace Replacement

The Lower Income Furnace Replacement Budget was established during 2007/08 as a result of Public Utility Board Order 99/07. The purpose of the budget is to establish and administer a Furnace Replacement Program for low income customers.

Exhibit E.15 outlines the Lower Income Natural Gas Furnace Replacement Expenditures in 2008/09 and 2009/10:

Exhibit E.15
Summary of Furnace Replacement Expenditures

	2008/09	2009/10	Cumulative
		thousands of nominal dollars	
Natural Gas Furnace Replacement	264	815	1,079
TOTAL EXPENDITURES	264	815	1,079

Table of Contents

1.0 Introduction

1.1 Background

In 1989, Manitoba Hydro launched the first of many Demand Side Management (DSM) programs, the Outdoor Timer Program. Soon after in 1991, Manitoba Hydro established Power Smart, the customer oriented brand for all of Manitoba Hydro's Demand Side Management (DSM) programs, initiatives and activities. DSM resource options are assessed and included in Manitoba Hydro's Integrated Resource Planning process. These resource options are developed to provide alternatives to traditional sources of power generation. Power Smart initiatives are justified based on their relative cost compared to traditional generation resource options and the customer service value realized by customers.

Since purchasing Centra Gas in 1999, Manitoba Hydro has been integrating natural gas conservation into the Corporation's overall Power Smart initiative. This report provides an integrated approach to evaluating the results and net energy savings that are reported due to the combined electricity and natural gas energy conservation efforts. In this regard, any increased natural gas consumption (due to interactive effects) resulting from electricity efficiency efforts are captured and netted against natural gas conservation efforts. Interactive effects are not captured prior to the 2002/03 reporting period.

Energy conservation initiatives are designed to reduce customer energy requirements through energy efficient measures (i.e. using less energy to obtain comparable or superior services). Load management activities are designed to reduce energy demands through programs offered to alter the timing of customer demands (e.g. Curtailable Rates Program). Customer self-generation programs are designed to encourage customer onsite generation.

Manitoba Hydro's Power Smart strategy focuses on creating a sustainable market change where energy efficient technologies and practices become the market standard - market transformation. The approach used to create and maintain market transformation varies by product and market segment and generally involves a combination of the following activities:

- Customer service initiatives & cost recovery programs;
- Efforts to encourage and support implementation of energy efficiency into codes and standards; and
- Incentive-based promotional programs, including:
    - Efficiency programs,
    - Customer self generation programs and
    - Rate/load management programs.

The work in each of these different areas supports the overall Power Smart objective as well as other corporate goals, including: providing customers with exceptional value, protecting the environment, and extend and protect access to North American energy markets and profitable export sales.

The Power Smart DSM initiative is designed to encourage the efficient use of energy in the commercial, agricultural,

residential, institutional and industrial customer sectors. More than thirty-five incentive-based programs and many other customer service initiatives have been offered over the last twenty years with impact evaluations of all incentive-based programs prepared regularly. By evaluating the incentive-based programs, Manitoba Hydro can determine its overall progress in achieving its corporate objectives and can adjust individual program targets and strategies to reflect market reaction and market changes.

1.2 Power Smart Strategy

Manitoba Hydro's Power Smart strategy is to create a sustainable market change where energy efficient technologies and practices become the market standard. To be effective in achieving the desired outcome, the corporation's strategy involves working along multiple tracks including:

- Providing customers with information and services on energy efficiency;
- Offering cost-recovery and incentive-based Power Smart programs designed to create market awareness, knowledge and acceptance of energy efficient technologies and products;
- Working with industry and trade allies to gain support for the Corporation's Power Smart efforts;
- Working with other utilities and government agencies in joint efforts to incorporate energy efficiency in codes, standards, and regulations;
- Undertaking communication and marketing efforts focused on promoting Power Smart programs and the Power Smart brand name;
- Leveraging the Power Smart brand name by establishing "Power Smart Design Standards"; and
- Making a sustainable and long-term commitment to the efficient use of energy.

1.3 Power Smart Brand Awareness and Perception

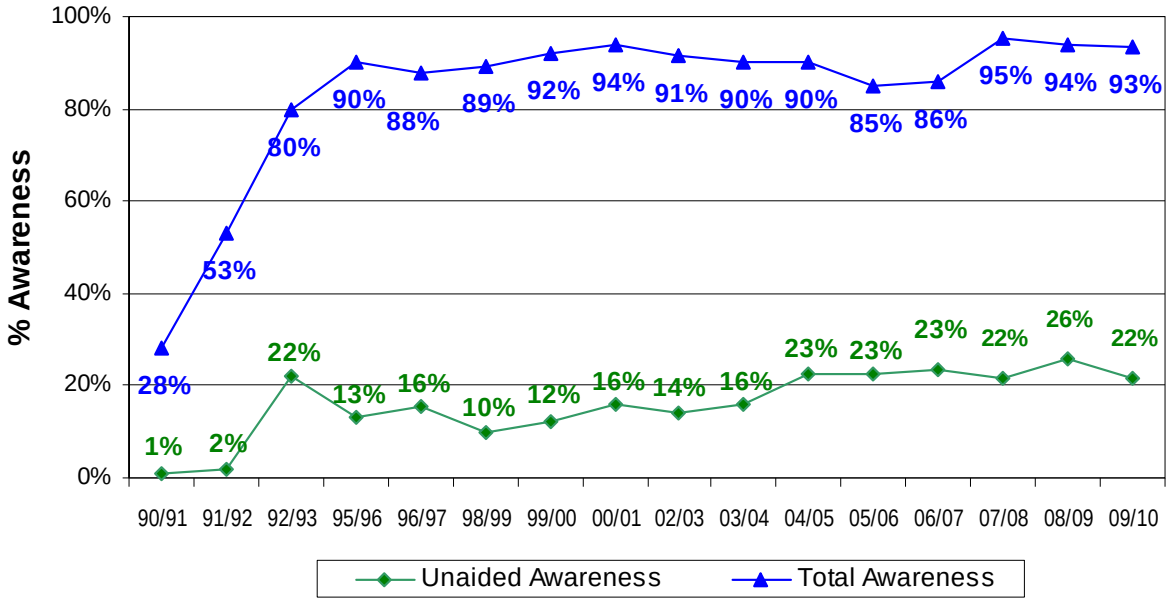
Power Smart is the brand name that Manitoba Hydro has used since 1991 to promote its energy efficient programs and services.

Manitoba Hydro continues to successfully maintain the Power Smart brand's profile with 93% of respondents currently saying they recognize the brand name. This includes 22% of respondents who independently recall (unaided recall) the Power Smart brand name, and 72% of respondents who say they recognize the brand name when the Power Smart brand name is identified (aided recall).

The Power Smart campaign, being distinct from the marketing/promotional activities associated with specific Power Smart DSM programs, is a mass communications campaign undertaken to improve public awareness of the Power Smart brand and its association with energy efficiency, low electricity rates and increased system reliability.

Approximately a third (38%) of respondents said they had participated in a Manitoba Hydro Power Smart program.

Exhibit 1.3
POWER SMART* Brand Awareness



Note: POWER SMART* awareness not measured in 93/94, 94/95, 97/98 or 01/02.

Customers continue to report the strongest association between the Power Smart brand and 'Encouraging Customers to be More Energy Efficient' with nearly all (86%) agreeing the brand conveys that message. Approximately three quarters of respondents link the Power Smart brand with 'Helping Customers Save Money on their Energy Bills' (78% agree it conveys that message), 'Conserving the Environment' (77% agree it conveys that message), and ensuring 'There will be Electricity Available for Manitobans in the Future' (72% agree it conveys that message).

Respondents continue to report a more moderate level of agreement (59%) with the statement 'Power Smart programs contribute to Manitobans paying among the Lowest Prices for Electricity in North America' in 2009/10.

1.4 Purpose of Report

Power Smart is an important component of Manitoba Hydro's Integrated Power Resource Plan.

Manitoba Hydro's corporate approved Power Smart DSM targets for electric energy and average winter demand savings at generation are 3,271 GW.h/year and 915 MW by 2024/25, as outlined under the *2009 Power Smart Plan*. These targets represent the expected impact of electricity efficiency codes and standards, customer service initiatives and incentive-based program activities. Manitoba Hydro's incentive-based Power Smart programs are expected to contribute the greatest portion of the savings, with projected energy and demand savings of 1,980 GW.h/year and 638 MW by 2024/25.

Manitoba Hydro's corporate approved Power Smart DSM target for natural gas savings is 172 million cubic metres by 2024/25, as outlined under the *2009 Power Smart Plan*. This target represents the expected impact of incentive-based efficiency program activities, customer service initiatives and interactive effects from electricity programs. Manitoba Hydro's incentive-based efficiency Power Smart programs are expected to contribute the greatest portion of the savings, with projected savings of 112 million cubic metres by 2024/25.

While this report will highlight all activities and results from the overall Power Smart portfolio, the emphasis will be on incentive-based program activities. Annual results for 2009/10 will be measured against planned savings of the most recent approved plan; the *2009 Power Smart Plan*.

More specifically, this report will:

- Report the energy and demand savings achieved by incentive-based Power Smart programs;
- Report the cost-effectiveness of incentive-based Power Smart programs; and
- Report the utility costs associated with all Power Smart programs and initiatives.

Refer to APPENDIX A - 'Sources of Evaluation and Planning Estimates' for details of the information considered when preparing program evaluation results and program plan estimates. Incentive-based programs are formally evaluated, while savings from other initiatives are calculated using engineering estimates as well as sales and market data provided by program specialists. Refer to APPENDIX B - 'Explanation of Benefit-Cost Ratios used in DSM Economic Tests' for formulas used to determine cost-effectiveness.

2.0 Power Smart Portfolio Review

Manitoba Hydro's Power Smart efforts include customer service initiatives and cost recovery programs, energy efficient codes and standards, and incentive-based Power Smart programs. The following section includes a synopsis of the current Power Smart initiatives.

2.1 Power Smart Customer Service Initiatives & Cost Recovery Programs

One of the primary drivers in Manitoba Hydro's Power Smart activities involves providing value-added customer service. This is achieved by offering customers advice, financing services, access to energy efficiency information and providing energy efficiency solutions. Through these efforts, Manitoba residents and businesses are provided with a number of benefits including:

- Enabling customers to improve the comfort and productivity of their work and home environments while reducing their energy bills;
- Lower electricity rates;
- Assisting businesses to become more competitive in national and international markets; and
- Creating employment opportunities within Manitoba for manufacturers, distributors, retailers, trade allies and installers of energy efficient products and services.

2.1.1 Launch Date of Customer Service Initiative & Cost Recovery Programs

Exhibit 2.1.1-A identifies the launch date of all current and discontinued customer service initiatives and cost recovery programs.

Exhibit 2.1.1-A
Launch Date of Customer Service Initiatives & Cost Recovery Programs

INITIATIVE	LAUNCH DATE
RESIDENTIAL	
Home Comfort & Energy Savings Program	February, 2001
ecoENERGY^	March, 2001
Wisdom in Saving Energy (WISE) Home Program	June, 2001
Residential Earth Power Program	April, 2002
Energy Saver Presentations^^	January, 2002
New Home Program Workshop	January, 2002
Solar Hot Water Heating	November, 2008
COMMERCIAL	
Religious Buildings Initiative	May, 2001
Power Smart Recreation Facility Survey	May, 1998
Power Smart Design Standards	September, 2002
DISCONTINUED/COMPLETED PROGRAMS	
R-2000 Home Program*	February, 2002
Power Smart Energy Manager - Pilot	September, 2001

^formerly EnerGuide

^^formerly Home Energy Saver Workshops

*In 2004/05 the R-2000 Home Program was grouped into the New Home Program

Exhibit 2.1.1-B provides an overview of the annual and total amount of participants for select customer service initiatives and cost recovery programs.

Refer to APPENDIX C - 'Total Power Smart Participation' for a detailed list of historical participation.

Exhibit 2.1.1-B

Customer Service Initiatives & Cost Recovery Program Participation

INITIATIVE	2009/10	Cumulative
	Number of Participants	
RESIDENTIAL		
Home Comfort & Energy Savings Program		
*Power Smart Residential Loan**	*6,453*	*52,402*
Mail In/On-Line Energy Assessments	*153*	*3,332*
	6,606	55,734
ecoENERGY Program^	7,009	37,975
Solar Hot Water Heating	18	18
Wisdom in Saving Energy (WISE) Home Program	450	4,931
Residential Earth Power Program		
Residential Earth Power Loan	114	1,081
Energy Saver Presentations^^	192	3,956
New Home Program Workshop	-	854
	14,389	104,549
COMMERCIAL		
Religious Buildings Initiative	9	223
Power Smart Recreation Facility Survey	1	66
	10	289
DISCONTINUED/COMPLETED PROGRAMS		
Power Smart Energy Manager - Pilot	-	38
R2000 Program	-	63
Residential Earth Power Program		
*Earth Power Consumer Workshops***	-	688
	-	789
TOTAL	14,399	105,627

* Participation includes approved loans while energy savings is measured by completed projects.
** Includes residential and commercial participants.
^ Participation includes 'D' & 'E' audits. ecoENERGY, previously called EnerGuide.
^^ Previously called Home Energy Saver Workshops.
Note: This table includes electric and natural gas Power Smart participants.
Customers may participate in more than one Power Smart program.

2.1.2 Customer Service Initiative & Cost Recovery Program Activity

Customer service initiatives and cost recovery programs provide numerous benefits to Manitobans. Depending on the nature of the program, savings resulting from specific programs will be quantified to the extent that these savings can be reasonably determined. Estimated savings are generally calculated using engineering estimates as well as sales and market data provided by program specialists. Regular assessments include a qualitative evaluation of the benefits, with service levels being adjusted accordingly. The following outlines the many benefits of Power Smart customer service initiatives and cost recovery programs.

Home Comfort & Energy Savings Program

The Home Comfort & Energy Savings Program encourages homeowners to make energy efficient renovations to increase comfort and reduce home heating bills. The following services are offered under this customer service program:

- Customers can call or e-mail a Power Smart Energy Expert with energy-related questions.
- The Home Energy Calculator is a simple on-line check sheet that enables homeowners to compare previous energy savings projects undertaken and make decisions regarding future projects.
- The Home Comfort & Energy Evaluation Guide can be completed as a mail-in or on-line survey. The customized report includes easy-to-read graphs and a Power Smart target comparing the current energy consumption of the customer's home with a home upgraded to the recommended Power Smart measures.
- Detailed brochures and renovation booklets for selecting and installing Power Smart measures guide the homeowner through the renovation process.
- Power Smart Residential Loans of up to $7.5 thousand over a term of up to 5 years. Enabling customers to make energy efficient retrofits to their homes.

ecoENERGY Program (formerly EnerGuide)

Manitoba Hydro continues to market the Federal Government energy evaluation programs. In March 2010, the Federal Government announced the ecoENERGY program across Canada would close to new participating homeowners, eliminating much of the program activity. Homeowners who have had a pre-retrofit energy evaluation prior to April 1, 2010 may still be eligible for remaining ecoENERGY grants, provided the recommended energy improvements to their home are completed, and a second post-retrofit energy evaluation is performed within 18 months of the pre-retrofit evaluation, or by March 31, 2011. Grants are subject to availability. Since the program closure, Manitoba Hydro has continued to offer an in-home energy evaluation similar to the ecoENERGY evaluation; the main difference is Federal grants are not available for these participating homeowners.

Once the evaluation is conducted, the home is assigned an EnerGuide energy rating, based on a scale of 0 to 100, with the lower ratings tied to lower energy efficiency. Homeowners who perform energy efficient upgrades on their homes as recommended by their report may take advantage of an 'E' or post-retrofit evaluation to determine the effectiveness of the upgrades. The home then receives an updated EnerGuide energy rating label. Specific energy efficient upgrades qualify for Federal ecoENERGY grants. The grant amounts are based on qualifying energy saving improvements, with a maximum total grant amount of $5,000 per residential dwelling (grants subject to availability). As mentioned, grants are only available to those consumers who participated in the program prior to the closure.

Exhibit 2.1.2-A
ecoENERGY Program
Number of D & E Participants

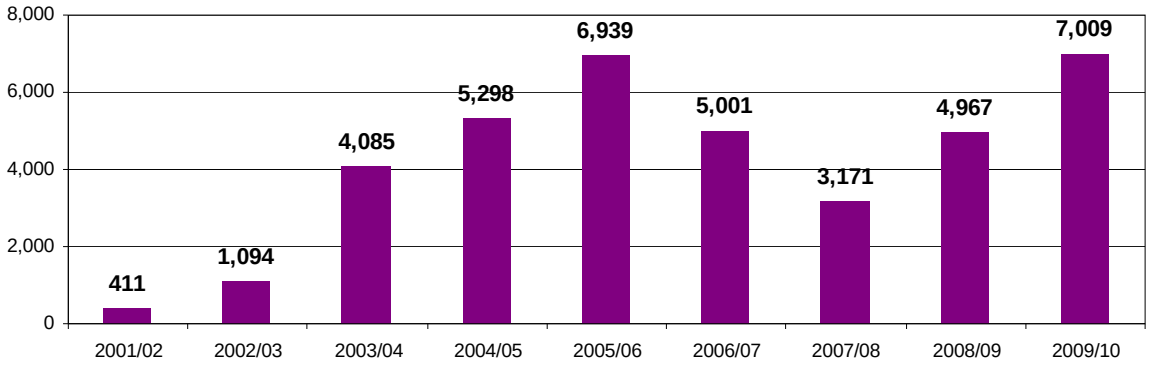
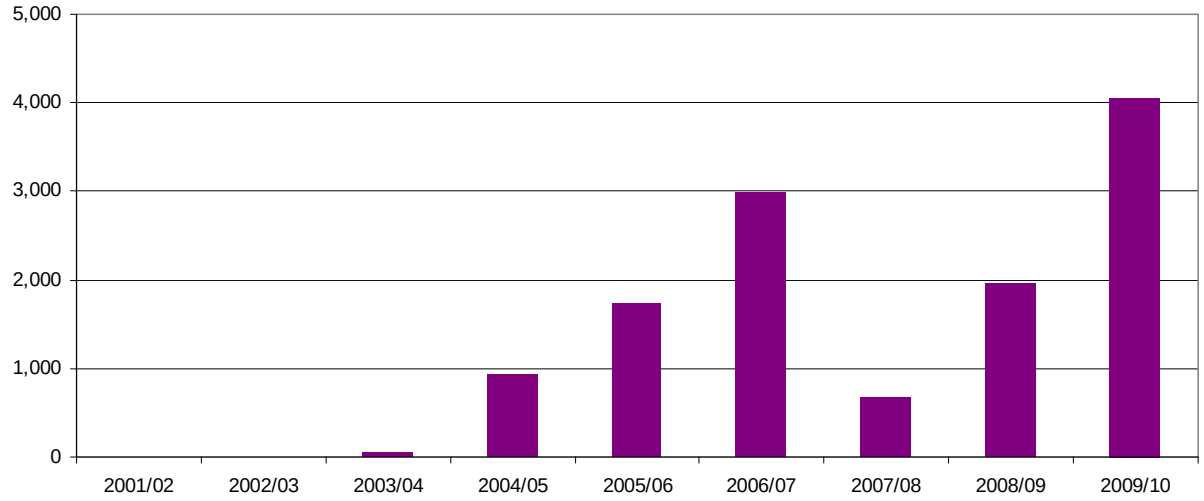


Exhibit 2.1.2-A-1
ecoENERGY Program Federal Grants Paid to Manitobans
(thousands of nominal dollars)



Note: Activity prior to 2007/08 was under the former EnerGuide Program.

As seen above, Federal Grants paid to Manitobans more than doubled from 2008/09 to over $4 million in 2009/10. The fee for an ecoENERGY evaluation is $180 + GST for the pre-retrofit 'D' evaluation, and $125 + GST for the post-retrofit 'E' evaluation.

The 'E' evaluation fee may be reduced to $25 + GST if it is estimated the homeowner will receive an ecoENERGY Grant of $400 or more.

The fees for both evaluations are equally subsidized by Manitoba Hydro and the Provincial Government. The program ends March 31, 2011.

Wisdom in Saving Energy (W.I.S.E.) "Seniors Helping Seniors" Home Program

The W.I.S.E. Program operates in partnership with the Manitoba Society of Seniors. The program is designed to assist senior homeowners identify and implement energy saving measures in their homes. The program has been planned around the "Seniors Helping Seniors" concept and offers seniors an opportunity to volunteer and receive training from Manitoba Hydro energy experts in order to become qualified in-home energy advisors.

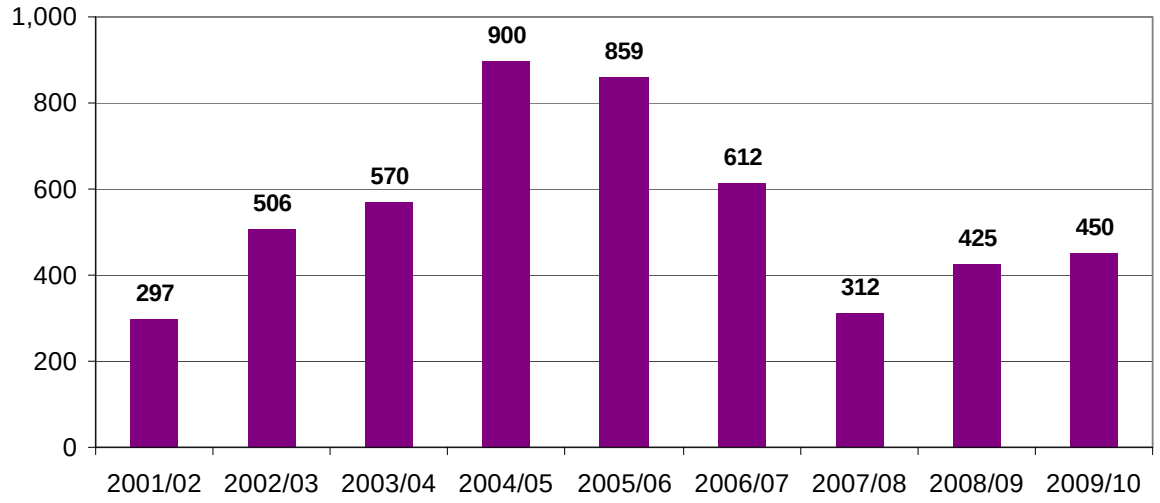
The volunteer energy advisors visit homeowners and collect information about their homes, install energy saving devices, and offer energy saving tips and options to help senior customers save on energy consumption. The program has been very well received by the community, as displayed by a consistently high mean satisfaction rating of 8.2 to 8.4 (out of 10) in the 9 years the program

has been offered. A total of 4,931 Manitoba seniors have participated in the program to date. The following graph presents the number of participants in the WISE "Seniors Helping Seniors" Home Program:

Exhibit 2.1.2-B

W.I.S.E. Home Program

Number of Participants



Residential Earth Power Program

Manitoba continues to be a leader in the geothermal industry, representing over 4 % of the national annual installations with over 6,000 residential installations to date[1].

The Residential Earth Power Program's primary objective is to maximize the adoption of geothermal heat pump technology to offset the use of conventional electric heating systems.

To facilitate this objective, the Earth Power Program has developed a comprehensive strategy to assist efforts of local stakeholders in developing a sustainable provincial geothermal industry. Since its launch in 2002, the program has focused efforts in mitigating three key market barriers which include:

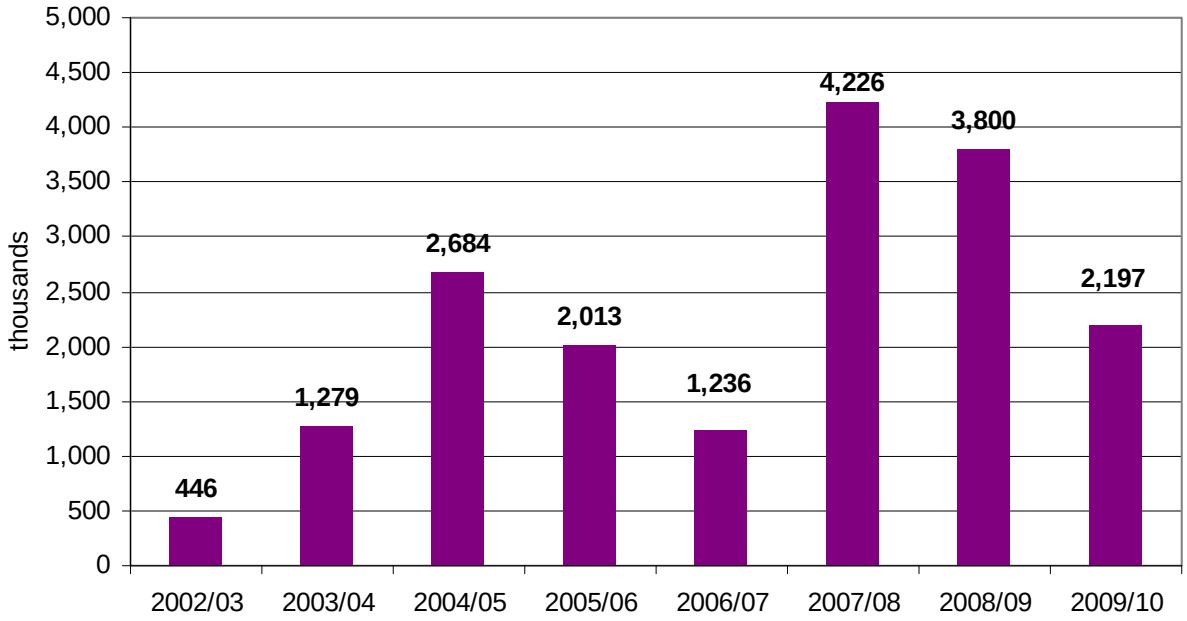
- Consumer awareness;
- Underdeveloped industry infrastructure; and
- High capital cost.

[1] Canadian GeoExchange Coalition. (2010). *The State of the Canadian Geothermal Heat Pump Industry 2010, Industry Survey and Market Analysis*. Montreal, QC.

In 2002, the Earth Power Program introduced convenient financing through the Residential Earth Power Loan - a vital component of the Earth Power Program. The original terms of the loan offered financing up to $15 thousand over a term up to 15 years at a fixed interest rate of 6.5%. In April 2007, changes were made to the loan terms which increased the amount of financing available to $20 thousand and lowered the interest rate to 4.9% for the first 5 years of a customer's loan. The interest rate on the balance of the loan term will be set at prevailing interest rates. The lower initial term interest rate is being subsidized by the Affordable Energy Fund.

Manitoba Hydro's Residential Earth Power Loan has continued to be an effective tool in facilitating residential geothermal installations. In 2009/10, a total of 114 customers financed their geothermal systems through the Residential Earth Power Loan. This brings the total number of loan participants to 1,081 since its inception in 2002/03; equivalent to $17.88 million in financing. Furthermore, residential geothermal market activity was strong due to the provincial Green Energy Tax Credit and a $4,375 geothermal system grant available from the ecoENERGY Retrofit - Homes Program.

Exhibit 2.1.2-C
Residential Earth Power Loan
Annual Loan Amounts
Nominal Dollars



The amount of loans in 2009/10 dropped significantly due to a large decline in geothermal sales. The combined impact of a lower disposable income, an increased consumer reluctance to take on more debt and a higher price premium on geothermal installations had a dramatic effect on sales throughout Manitoba in 2009/10.

Solar Water Heating Program

Manitoba Hydro has partnered with Natural Resources Canada to offer a $1,200 rebate to homeowners who purchase and install a solar water heating system. Natural Resources Canada will cover the $1,200 rebate up to $292,000 and Manitoba Hydro agreed to contribute $350,000 in program administration, promotion, advertising, and monitoring.

An additional $1,250 rebate may be available to the homeowner if they participate in Natural Resource Canada's ecoENERGY In-Home Energy Evaluation program.

Energy Saver Presentations

The Energy Saver Presentations (formerly the Home Energy Saver Workshops) offer customers planning to retrofit existing homes an overview of how to improve the comfort and energy efficiency of their home to reduce energy bills and save money. The presentation is offered at no-cost and is targeted at owners of existing homes.

New Home Program Workshop

New Home Workshops offer customers planning to build a new home an overview of how to build an affordable, comfortable and energy efficient home.

Power Smart Recreation Facility Survey

The Power Smart Recreation Facilities Survey was created to help ice arenas and curling rinks reduce their operating costs by providing operators with an understanding of the energy use and potential energy saving measures within the facility. Technical staff at Manitoba Hydro review comprehensive surveys filled in by facility operators and an evaluation report is prepared. The report compares the energy use of the facility with other similar facilities in Manitoba and provides a list of possible Energy Saving Opportunities. In October 2002, a guide called *Saving Money Through Energy Efficiency - Guidelines for Operators of Manitoba's Rinks and Arenas* was developed to assist rink operators to operate their facilities more efficiently and to present practical ideas for saving money by reducing the use of energy. This guide has been updated and is now called *Energy Efficiency Guide for Ice Arenas and Curling Rinks*.

Power Smart Design Standards

Manitoba Hydro developed design standards that new or renovated buildings must meet or exceed to achieve the Power Smart designation. The standards take the form of efficiency requirements, prescriptive measures by building type, eligible products and systems, and recommended good practices. The design standards were originally created to match the requirements of the former Federal Commercial Building Incentive Program (CBIP) but have since evolved to become an industry guideline for building energy efficiency in Manitoba and are now listed as a requirement in The Green Building Policy for Government of Manitoba Funded Projects. In 2009/10, 10 projects received a Power Smart designation.

Religious Buildings Initiative

The Religious Building Initiative was designed to assist religious organizations in finding ways to make their buildings more energy efficient. The initiative offers a benchmark audit and a low-interest loan of 8.5% to assist religious facilities in carrying out efficiency improvements. The benchmark audit report outlines how energy is being used in the building and indicates potential energy saving measures, which will reduce energy consumption. As part of the Religious Building Initiative, a guide called *Energy Efficiency Guide for Religious Buildings* was created. This energy and water efficiency guide assists people involved in the operation and maintenance of religious buildings to develop an action plan and take steps toward improving the efficiency of their buildings.

2.2 Energy Efficient Codes and Standards

The most effective and permanent form of market transformation for energy efficient technologies and practices is the adoption of energy efficient codes and standards. However, the process of achieving these changes is complex due to three factors:

Governance: The provincial government department responsible for energy is separate from the department responsible for building codes. Canada's national model code development process historically only engages with provinces and territories via the department responsible for building codes.

Applicability: Building codes are minimum requirements for health and life-safety in buildings. To date, energy efficiency has not been viewed by the code community as a necessary minimum requirement.

Market Acceptance: These changes impact building design and construction, as well as industry manufacturing processes, and therefore often do not receive strong industry support.

Manitoba Hydro's strategy to affect change in codes and standards involves being an aggressive and active participant and in many cases, a driving force on a number of provincial and national energy efficiency codes and standards committees (e.g. Manitoba Hydro representatives often chair committees). The focus of Manitoba Hydro's efforts on these committees is towards developing new energy-efficient technologies, developing energy efficient codes and standards and facilitating market acceptance of new technologies and building design practices.

2.3 Power Smart Incentive-Based Programs

Power Smart incentive-based programs are designed in consideration of specific market parameters and characteristics impacting market acceptance of the targeted energy-efficient technology or product. (For example, industry/customer awareness and appetite for acceptance, availability of competing products, state of product lifecycles, cost barriers, training barriers, state of existing codes and standards, etc.).

2.3.1 Launch Date & Participation of Incentive-Based Power Smart Programs

Exhibit 2.3.1-A identifies the launch year of current and past Power Smart incentive-based programs.

Exhibit 2.3.1-B provides an overview of the annual and total amount of participants for incentive-based programs.

Refer to APPENDIX C - 'Total Power Smart Participation' for a detailed list of historical participation.

For a description of current incentive-based Power Smart programs, see list in section 2.3.2. APPENDIX D provides a synopsis of discontinued Power Smart programs.

Exhibit 2.3.1-A
Launch Date of Incentive-Based Programs

	YEAR LAUNCHED
RESIDENTIAL	
New Home Program	February, 2004
Home Insulation Program	May, 2004
Compact Fluorescent Lighting	September, 2004
High Efficiency Furnace /Boiler Program	November, 2005
Energy Efficient Light Fixtures	October, 2006
Lower Income Energy Efficiency Program	December, 2007
Affordable Energy Fund - Propane & Oil Furnace/Boiler	May, 2009
First Nation Loan Program	August, 2009
COMMERCIAL	
Commercial Lighting	April, 1992
Internal Retrofit	July, 1995
Commercial Custom Measures	December, 1995
Commercial Building Envelope	December, 1995
Commercial Earth Power Program	December, 1995
Commercial Parking Lot Controllers	December, 1995
Agricultural Heat Pads	April, 1998
City of Winnipeg Agreement	September, 2002
Commercial HVAC	September, 2003
Commercial Building Optimization	April, 2006
Commercial Refrigeration	April, 2006
Spray Valves	July, 2006
Commercial Kitchen Appliances	January, 2008
Commercial Network Energy Management Program	May, 2008
Commercial Clothes Washers	July, 2008
Power Smart Energy Manager Program	November, 2008
Power Smart Shops	February, 2009
New Buildings Program	April, 2009
C02 Sensors	April, 2009
INDUSTRIAL	
Performance Optimization Program	June, 1993
Natural Gas Optimization Program	September, 2006
CUSTOMER SELF-GENERATION PROGRAMS	
Bioenergy	March, 2006
RATE/LOAD MANAGEMENT PROGRAMS	
Curtailable Rates	November, 1993
DISCONTINUED/COMPLETED PROGRAMS	
RESIDENTIAL DISCONTINUED/COMPLETED	
Outdoor Timer	October, 1989
Refrigerator/Freezer Buy-Back Pilot	1991/92
Residential Showerhead Pilot	1991/92
Energy Efficient Water Savings Measures Component of the 'No Worry Plan'	November, 1996
Energy Efficient Water Tank Measures Component of the 'No Worry Plan'	November, 1996
Seasonal LED Lighting	November, 2005
Programmable Thermostat Pilot	October, 2006
Energy Efficient Appliances	June, 2006
COMMERCIAL DISCONTINUED/COMPLETED	
Roadway Lighting	April, 1991
Sentinel Lighting Conversion	April, 1991
Commercial Showerhead Pilot	1991/92
Infrared Heat Lamps	1991/92
Agricultural Demand Controller	July, 1992
Livestock Waterer	October, 1994
Commercial Construction- Air Barrier Component	December, 1995
Commercial Construction- Air Conditioning Component	December, 1995
INDUSTRIAL DISCONTINUED/COMPLETED	
High Efficiency Motor	September, 1991

Exhibit 2.3.1-B
Incentive-Based Power Smart Program Participation

PROGRAM	2009/10	Cumulative
	Number of Participants	
RESIDENTIAL		
Compact Fluorescent Lighting**	99,817	267,560
High Efficiency Furnace /Boiler Program	5,190	27,371
Home Insulation Program	5,093	21,311
Energy Efficient Light Fixtures	1,126	7,244
Lower Income Energy Efficiency Program	716	998
New Home Program	205	1,008
	112,147	325,492
COMMERCIAL		
Commercial Lighting	1,111	9,830
Commercial Building Envelope	371	966
Power Smart Shops	330	330
City of Winnipeg Agreement	4	315
Commercial Clothes Washer	160	169
Commercial Parking Lot Controllers	137	775
Commercial HVAC	107	449
Spray Valves	97	1,179
Internal Retrofit	42	1,185
Commercial Refrigeration	41	97
Commercial Kitchen Appliances	27	48
Commercial Earth Power Program	23	77
Commercial Custom Measures	13	21
Agricultural Heat Pads	10	128
Commercial Network Energy Management Program	6	6
Commercial Building Optimization	2	3
Power Smart Energy Manager Program	-	-
New Buildings Program	-	-
	2,481	15,578
INDUSTRIAL		
Performance Optimization Program	97	479
Natural Gas Optimization Program	14	34
	111	513
DISCONTINUED/COMPLETED PROGRAMS	2,451	112,555
EFFICIENCY PROGRAMS SUBTOTAL	117,190	454,138
CUSTOMER SELF-GENERATION PROGRAMS		
Bioenergy*	1	1
	1	1
RATE/LOAD MANAGEMENT PROGRAMS:		
Curtailable Rates*	4	5
	4	5
TOTAL	117,195	454,144

* Participation represents the number of customers who participate each year. The cumulative number represents the actual number of unique customers who have participated.

** Participation is defined as 1 household.

Notes: This table includes electric and natural gas Power Smart participants.
Customers may participate in more than one Power Smart program and are counted multiple times cumulatively (except for Bioenergy and Curtailable Rates).
Participation is measured by number of completed projects and does not include market transformation.

2.3.2 Residential Programs

New Home Program

Promotes and encourages energy efficiency in residential new construction, using measures such as: lighting, insulation, ventilation, water technologies, and improved building envelope. Customers can qualify by building to the Power Smart Gold, Silver or R2000 standard. Manitoba Hydro became the delivery agent of Natural Resources Canada's R2000 Program in February of 2002.

Home Insulation Program

Information and financial incentives are offered to encourage owners of existing homes to upgrade their insulation to Power Smart levels.

Compact Fluorescent Lighting

The CFL program provides financial incentives to encourage residential customers and property managers for multi-unit residential buildings to install energy efficient compact fluorescent light bulbs.

Energy Efficient Light Fixtures

The Energy Efficient Light Fixtures program provides financial incentives to residential customers and property managers for multi-unit residential buildings thereby encouraging the installation of ENERGY STAR® qualified light fixtures, dimmer switches and LED night lights in homes.

High Efficiency Furnace/Boiler Program

This program provides financial incentives to residential customers who are replacing their existing natural gas furnaces or boilers with ENERGY STAR® qualified high efficiency natural gas furnaces or boilers.

Lower Income Energy Efficiency Program (LIEEP)

The Lower Income Energy Efficiency program is designed to bring Power Smart and energy efficient measures to qualifying lower income Manitoba households. The program leverages Manitoba Hydro Power Smart programs, the Affordable Energy Fund, the Federal Government ecoENERGY Program (until the program ends in March 2011), provincial government programs and existing community-based infrastructures. Energy efficiency measures include pre-and post in-home energy evaluations, installation of basic energy efficiency items such as CFL's and low flow showerheads, insulation upgrades, and natural gas furnace upgrades.

2.3.3 Commercial Programs

Commercial Custom Measures

The Custom Measures program encourages commercial customers who are renovating, undergoing plant expansion or building new facilities to improve system performance by installing or upgrading technologies such as; direct digital controllers, variable frequency drives and heat recovery ventilation systems. The program is designed for energy efficient projects that are not included in any of the existing Power Smart programs.

Commercial Building Envelope Program

The Building Envelope program encourages building owners to incorporate window systems and/or insulation that meets Power Smart levels into their renovation or new building plans and helps to reduce air leakage that leads to heat loss.

Commercial HVAC

The HVAC program encourages the use of higher efficiency heating and cooling systems in commercial buildings such as: high efficiency furnaces, near-condensing and condensing boilers, variable speed drives and energy efficient water-cooled chillers.

Internal Retrofit

Energy efficiency in Manitoba Hydro buildings is encouraged by retrofitting existing and constructing new buildings to Power Smart levels.

Spray Valves

The Rinse and Save program offers customers who operate a restaurant or food services business the free installation of a new low-flow pre-rinse spray valve. The old spray valve is recycled by Manitoba Hydro so that it cannot re-enter the market.

Commercial Lighting

This program encourages commercial customers to install cost-effective energy efficient lighting systems. Manitoba Hydro also works with lighting distributors, installers, contractors and manufacturers to assist customers in saving electricity.

Commercial Building Optimization

The Commercial Building Optimization program encourages commercial customers with existing buildings to use an investigation process known as retro commissioning to help return their buildings to their design intent. The goal is to identify energy conservation opportunities with short payback periods.

Commercial Earth Power Program

This program provides information and financial incentives to customers who install a geothermal heat pump to offset a conventional electric heating system in either new construction or existing commercial buildings.

Commercial Parking Lot Controllers

The Parking Lot Controllers program encourages commercial building and property managers to implement parking lot controller technology to effectively manage electricity usage in their parking lots.

Commercial Refrigeration

This program encourages retail stores and restaurants to install energy efficient refrigeration equipment for their walk-ins, display cases and mechanical rooms to reduce energy consumption and create a more comfortable environment for their customers.

Agricultural Heat Pads

The Agricultural Heat Pad program helps swine barns realize energy and demand savings by using energy efficient heat pads over traditional heat lamps in hog farrowing crates.

City of Winnipeg Agreement

The City of Winnipeg Agreement encourages, promotes and implements energy saving measures to improve the efficiency of city-owned facilities. The Power Smart Agreement encompasses electricity, natural gas and water saving measures for both new construction and renovation projects.

Commercial Clothes Washers

The Commercial Clothes Washers program encourages customers to install energy efficient clothes washers at their business or facility.

Commercial Kitchen Appliances

The Commercial Kitchen Appliances program encourages customers to upgrade to ENERGY STAR® qualified steamers and fryers.

Commercial Network Energy Management Program

The Network Energy Management program offers commercial customers a rebate when installing network management software. The software shuts down PCs when they are inactive while still allowing network administrators to perform regular maintenance tasks, such as IT upgrades and installations.

Power Smart Energy Manager Program

The Power Smart Energy Manager program provides information, training, and support for Manitoba school divisions to hire dedicated Energy Managers.

2.3.4 Industrial Programs

Performance Optimization Program

The Performance Optimization program encourages industrial and large commercial customers to study and implement energy efficiency measures in their electro-technology processes and motor-drive systems.

Natural Gas Optimization Program

This program provides industrial and large commercial customers with the technical support and financial incentives necessary to identify, investigate and implement systematic efficiency improvements in their natural gas fired systems throughout their facilities.

2.3.5 Rate/Load Management Programs

Curtailable Rates Program

Large industrial customers are provided with monetary incentives by way of a monthly credit on their electricity bill in exchange for customers having electrical load available for curtailment if called upon by Manitoba Hydro.

2.3.6 Customer Self-Generation Programs

Bioenergy Optimization Program

This program encourages industrial customers to install, operate and maintain generation equipment at their site for displacing their internal load.

3.0 Power Smart Success Stories

Lower Income Energy Efficiency Program hits 1,000 Applications

After only being in operation for a year-and-a-half, Manitoba Hydro's Lower Income Energy Efficiency Program (LIEEP), which was officially launched in December of 2007, processed its 1,000th application during the 2009/10 fiscal year. In order to qualify for the LIEEP, a lower income homeowner must live in a single detached or semi-detached home and have a household income within established income guidelines. Qualifying homeowners may be eligible for insulation upgrades, a high efficiency natural gas furnace upgrade, an in-home energy evaluation and basic energy savings items.

High Efficiency Furnace Regulation

As of December 30th, 2009, the highest energy efficiency standards in Canada for replacement furnaces and boilers were regulated in Manitoba. The regulation was the first to be passed under the Province's Energy Act, requiring furnaces up to 225,000 Btu/h sold in Manitoba to have a minimum AFUE of 92%; hot water boilers up to 300,000 Btu/h to have a minimum efficiency of 82%; and steam boilers a minimum efficiency of 80%. Manitoba Hydro played a major role in this achievement; during the two years prior to the regulation taking effect, staff assisted the Province by providing technical and market data regarding the heating market by hosting an industry consultation with contractors and other interested parties, preparing a formal market impact study, and providing general guidance to regulatory staff. Power Smart Programs such as the Residential Loan Program and the High Efficiency Furnace and Boiler Program influenced the market to the point that 80% of all equipment installed was of high efficiency, thus making the regulation acceptable to the industry.

Geothermal Reaches New Milestone

The Earth Power program achieved an important milestone during the 2009/10 fiscal year by surpassing over 7,000 system installations and financing over 1,000 projects through the Residential Earth Power Loan.

Manitoba continues to be a national per-capita leader in the geothermal market, responsible for approximately 4% of annual installations across Canada.

The Cindy Klassen Recreation Centre Goes for Gold with Power Smart

After $8.8 million in renovations, the new Cindy Klassen Recreation Centre opened for business in March 2009. The state of the art facility includes a new Olympic indoor track, weight room, 6,000 square foot library, outdoor speed skating oval and café.

With contributions from Manitoba Hydro approved in 2009/10 through the City of Winnipeg Power Smart

Agreement, the Cindy Klassen Recreation Centre was able to incorporate a number of energy efficient upgrades including a curtain wall, energy efficient lighting and eight new condensing boilers. These upgrades are anticipated to save the City of Winnipeg over 200,000 kW.h and approximately 40,000 cubic metres of natural gas per year, resulting in annual savings of over $26,000.

3.1 Power Smart Initiatives Launched During Reporting Period

C02 Sensor Program

April 6, 2009 - The Commercial HVAC Program launched its new prescriptive CO2 Sensor Program at the Better Buildings conference. The program encourages eligible customers to install CO2 sensors to control ventilation loads within commercial buildings. CO2 sensors are a Demand-Controlled Ventilation strategy that matches the ventilation air supply to actual occupant demand at any given time. CO2 sensors save energy while ensuring high indoor air quality.

Affordable Energy Fund - Propane & Oil Furnace/Boiler Replacement Program

May 1, 2009 - The Program is designed to encourage customers who heat their home with propane or oil to lower their annual heating costs by purchasing and installing: a high efficient 92% AFUE natural gas furnace with DC variable speed motor; an electric furnace, or a minimum efficiency 85% AFUE natural gas boiler.

The First Nation Loan Program

Aug 25, 2009 - The First Nation Loan Program, designed to assist creditworthy First Nation Band Councils throughout Manitoba, provides access to capital for the installation of energy efficient technologies that are currently supported under Manitoba Hydro's Residential Power Smart Programs

Power Smart New Buildings Program

April 1, 2009 - The Power Smart New Buildings Program targets commercial buildings constructed in Manitoba. Savings are achieved by providing guidance and financial incentives for the design, construction and operation of new, energy efficient commercial buildings that are at least 33% more efficient than a building that meets the Model National Energy Code of Canada for Buildings 1997 (MNECB). In addition to incentives, dedicated Power Smart personnel work with the customers' design teams to offer technical guidance and program support during all phases of the new building project.

4.0 Market Results

In the past, the success of Manitoba Hydro's Power Smart initiative was evaluated on DSM incentive-based program activity alone. The true impact of Power Smart programs includes the impact of the program on the market as a whole - market transformation. However, market transformation is more difficult to measure. Manitoba Hydro has made significant in-roads in developing program-specific methodologies for measuring its impact. Wherever possible, Manitoba Hydro has attempted to obtain sales/technology specific data to calculate a program's true effect. In some instances, qualitative information is used to determine a program's impact on the market. Manitoba Hydro plans to continue to further quantify and report on the influence of market transformation within the Manitoba marketplace.

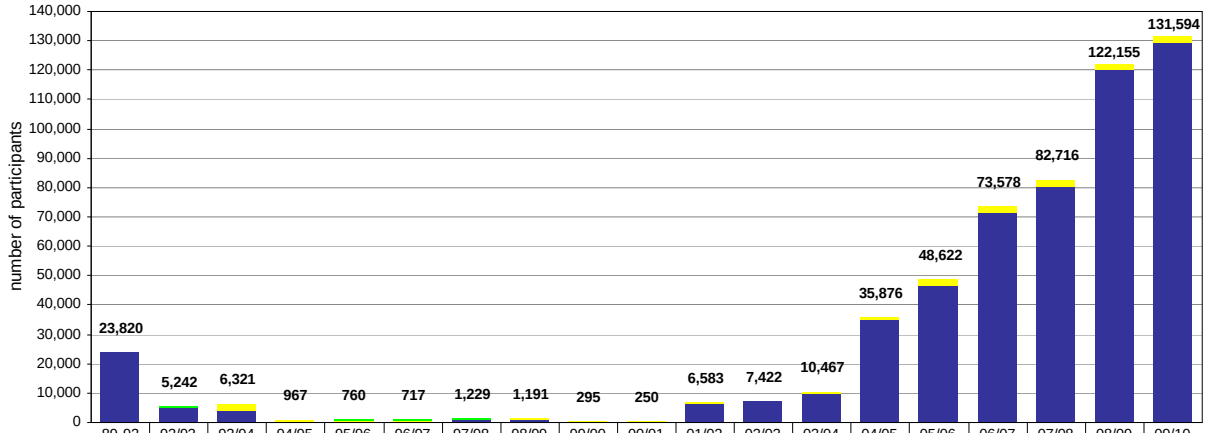
4.1 Power Smart Portfolio Results

The following sections provide an overview of Power Smart portfolio results to date.

4.1.1 Participation in Power Smart Programs

The following graph outlines total Power Smart participation in incentive-based programs, customer service initiatives and cost recovery programs with participation presented by sector (i.e. residential, commercial/agricultural and industrial programs).

Exhibit 4.1.1
POWER SMART Program Participation



	89-92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10
Industrial	24	157	202	229	185	182	195	8	4	9	17	25	32	48	50	49	81	99	116
Commercial	65	273	1,959	738	575	334	325	502	291	241	305	364	538	1,020	1,849	2,364	2,041	2,136	2,491
Residential	23,731	4,812	4,160	-	-	201	709	681	-	-	6,261	7,033	9,897	34,808	46,723	71,165	80,594	119,920	128,987
Total Achieved	23,820	5,242	6,321	967	760	717	1,229	1,191	295	250	6,583	7,422	10,467	35,876	48,622	73,578	82,716	122,155	131,594

Note:
Includes electric and natural gas participants.
Customers may participate in more than one Power Smart program.
Participation for codes & standards excluded.
Curtailable Rates Program participation is included in the industrial sector.
Participation in the CFL program is defined as one household.

There were more than 131 thousand Power Smart participants during 2009/10, and there have been approximately 560 thousand participants cumulatively. Refer to Appendix C for a historical list of participants by Power Smart program.

4.1.2 Power Smart Portfolio - Impact of Electric Programs

The following tables outline the electricity savings achieved through the Power Smart portfolio during 2009/10 and provide a comparison between achieved results and planned targets, where applicable:

Exhibit 4.1.2-A

Annual GW.h Savings (at generation) - Power Smart Portfolio

	Actual	2009/10 Plan^ *GW.h*	Total*
INCENTIVE-BASED PROGRAMS	212	241	1,205
CODES & STANDARDS	48	67	430
CUSTOMER SERVICE INITIATIVES	3	3	25
OVERALL IMPACT	264	311	1,660

^ Plan estimates are from the *2009 Power Smart Plan*.
* Savings include actual + persisting results.
Note: Figures may not add due to rounding.

Exhibit 4.1.2-B

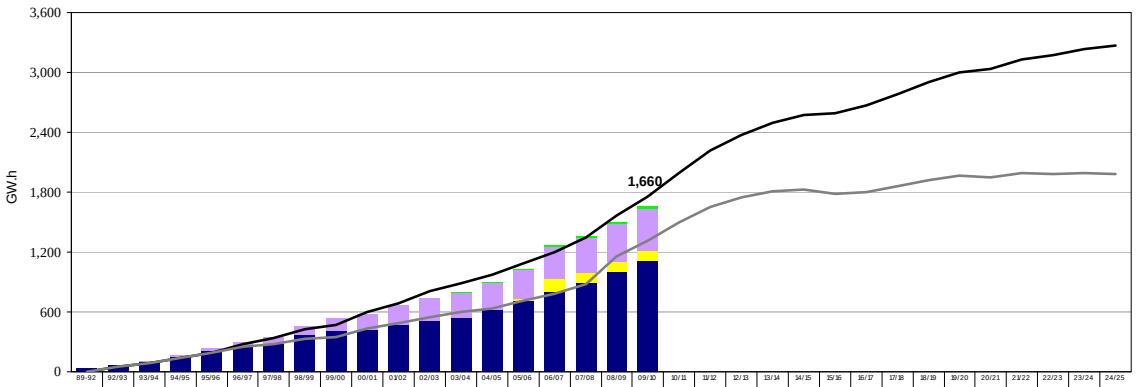
Annual Average Winter MW Savings (at generation) - Power Smart Portfolio

	Actual	2009/10 Plan^ *MW*	Total*
INCENTIVE-BASED PROGRAMS	208	241	406
CODES & STANDARDS	8	11	105
CUSTOMER SERVICE INITIATIVES	2	1	8
OVERALL IMPACT	218	253	519

^ Plan estimates are from the *2009 Power Smart Plan*.
* Savings include actual + persisting results.
Note: MW savings are based on the average of the winter AM & PM system peak savings.
MW savings reported is expected Curtailable load on system at the time a curtailment occurs.
Figures may not add due to rounding.

The following graphs present the electric energy and demand savings achieved to date by the Power Smart portfolio and the corresponding targets:

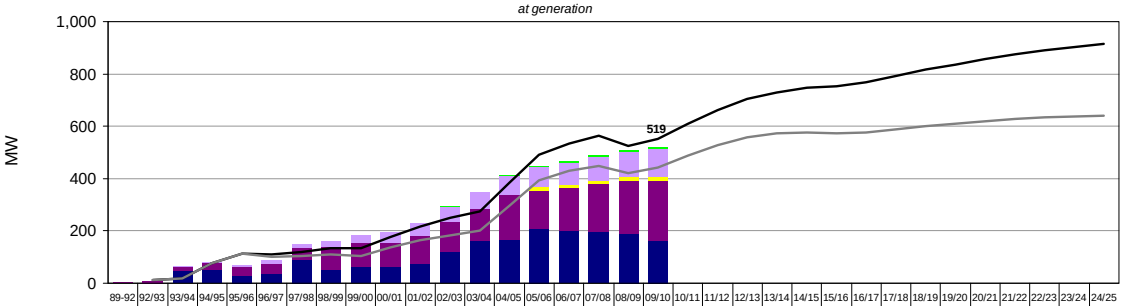
Exhibit 4.1.2-C
Electric Energy Savings - Power Smart Portfolio
Total Savings Achieved vs. Plan
at generation



	89-92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25
Customer Service Initiatives											1	1	2	3	3	4	6	6	8															
Codes and Standards	-	2	8	16	25	40	63	93	125	156	189	228	248	274	298	324	352	382	430															
Incentive-based - Customer Self Gen															11	132	93	103	88															
Incentive-based - Efficiency	31	59	99	151	209	259	285	363	407	439	467	511	546	620	715	799	895	1,002	1,117															
Total Achieved	31	62	107	167	235	299	348	456	532	575	659	743	801	904	1,037	1,270	1,359	1,509	1,660															
Plan (incentive-based programs only)	-	50	86	138	195	252	279	327	350	435	491	544	603	634	713	782	879	1,157	1,310	1,493	1,649	1,749	1,809	1,829	1,783	1,802	1,860	1,921	1,965	1,945	1,989	1,979	1,990	1,985
Plan	-	50	86	138	195	281	336	422	466	602	686	810	891	970	1,088	1,189	1,350	1,569	1,753	1,995	2,214	2,377	2,497	2,577	2,592	2,670	2,787	2,903	3,001	3,035	3,131	3,171	3,231	3,271

Note: Targeted savings are unadjusted for programs not running or other revisions.
Figures may not add due to rounding.

Exhibit 4.1.2-D
Average Winter Demand Savings - Power Smart Portfolio
Total Savings Achieved vs. Plan
at generation



	89-92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25
Customer Service Initiatives											1	1	2	3	3	4	6	6	8															
Codes and Standards	-	1	2	4	6	10	15	23	32	40	49	59	64	70	76	82	89	97	105															
Incentive-based - Customer Self Gen															16	16	16	16	16															
Incentive-based - Efficiency	4	10	17	26	34	41	46	86	91	93	105	113	119	169	146	162	179	200	227															
Incentive-based - Rate/Load	-	-	45	51	27	36	88	53	64	63	75	121	163	169	208	202	199	190	164															
Total Achieved	4	10	64	80	67	87	149	162	186	196	230	294	348	373	449	465	488	509	519															
Plan (incentive-based programs only)		12	18	75	114	101	104	110	105	136	166	183	200	296	394	429	449	421	442	489	529	558	572	577	573	577	589	601	610	620	629	633	638	640
Plan		12	18	75	114	108	118	134	135	178	216	249	273	385	491	535	564	524	551	609	662	703	729	746	754	770	794	816	836	856	875	889	904	915

Note: Targeted savings are unadjusted for programs not running or other revisions.
Figures may not add due to rounding.

Overall, results of the entire Power Smart portfolio achieved to 2009/10 were 1,660 GW.h and 519 MW (at generation), which are 5% and 6% below their respective targets.

4.1.3 Power Smart Portfolio - Impact of Natural Gas Programs

The following table and graph presents natural gas savings achieved by the Power Smart portfolio:

Exhibit 4.1.3 - A
Annual Natural Gas Savings

	Actual	2009/10 Plan^	Total*
		millions of cubic metres	
PROGRAM & INTIATIVE			
Incentive-Based Programs	8.2	8.9	34.1
Customer Service Intiatives	1.9	4.2	18.3
Codes & Standards	0.5	-	3.5
	10.7	13.1	55.9
INTERACTIVE EFFECT			
Incentive-Based Interactive effect with Electric Programs	(3.3)	(5.2)	(8.6)
	(3.3)	(5.2)	(8.6)
NET IMPACT OVERALL	7.4	7.9	47.4

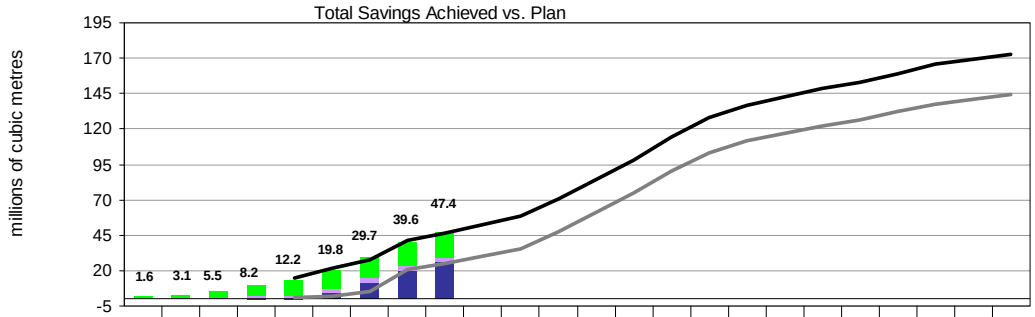
^ Plan estimates are from the *2009 Power Smart Plan*.
* Savings include actual + persisting results.
Note: Figures may not add due to rounding.

The Power Smart portfolio provided natural gas savings of 10.7 million cubic metres in 2009/10, which is 18% less than plan.

The primary reason for the variance is that th*e 2009 Power Smart Plan* shows Customer Service Initiatives are planned to save 4.2 million cubic metres for the year. However, due to a formula error, the planned savings for the Power Smart Residential Loan program were doubled. The plan should have shown 2.1 and not 4.2.

After interactive effects, a net savings of 7.4 million cubic metres of natural gas were saved in 2009/10, which is 6% less than plan.

Exhibit 4.1.3 - B
Integrated Natural Gas Savings - Power Smart Portfolio



	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25
Customer Service Initiatives	1.2	2.4	4.3	7.7	11.3	13.2	15.3	16.4	18.3															
Codes & Standards	0.3	0.7	1.1	1.6	2.0	2.4	2.7	3.0	3.5															
Incentive-Based Integrated	0.0	0.1	0.1	-1.0	-1.0	4.2	11.7	20.3	25.6															
Total Achieved	1.6	3.1	5.5	8.2	12.2	19.8	29.7	39.6	47.4															
Integrated Plan (incentive-based programs only)					0.8	1.9	5.7	20.8	24.6	30.1	35.6	47.4	60.9	74.5	90.0	103.4	111.6	116.8	121.9	126.5	131.9	137.7	140.9	144.0
Integrated Plan					14.8	21.5	27.9	41.4	46.3	52.3	58.2	70.5	84.3	98.4	114.4	128.2	136.9	142.6	148.2	153.3	159.2	165.5	169.0	172.3

Note: Figures may not add due to rounding.
Natural gas savings due to codes & standards are not presented.

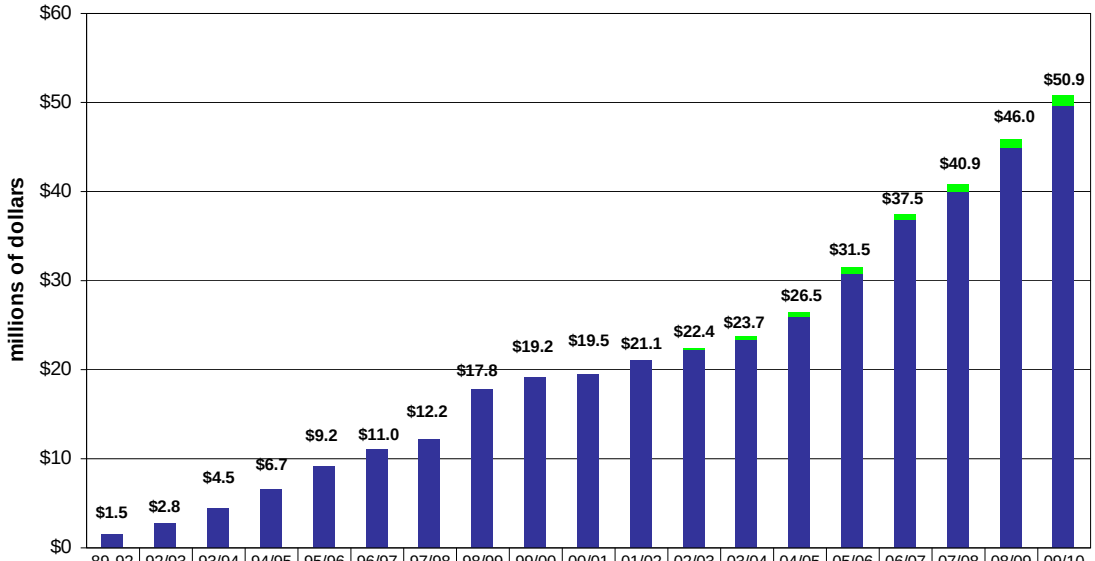
To date, the Power Smart portfolio has saved over 47 million cubic metres of natural gas, after interactive effects, which are 2% above target.

4.1.4 Customer Bill Reduction

Electricity Bill Reduction

When customers save electricity through Manitoba Hydro's Power Smart programs, it translates into lower electricity bills for participating customers. Displayed in Exhibit 4.1.4-A are the annual customer bill reductions resulting from customer service initiatives and incentive-based Power Smart program electrical savings to date.

Exhibit 4.1.4-A
Customer Electricity Bill Reduction (2009$)
millions of dollars



	89-92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10
CSI Savings	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.1	$0.2	$0.3	$0.5	$0.6	$0.7	$0.9	$1.1	$1.2
Incentive-Based Savings	$1.5	$2.8	$4.5	$6.7	$9.2	$11.0	$12.2	$17.8	$19.2	$19.5	$21.0	$22.2	$23.4	$26.0	$30.9	$36.7	$39.9	$44.9	$49.7
Total	$1.5	$2.8	$4.5	$6.7	$9.2	$11.0	$12.2	$17.8	$19.2	$19.5	$21.1	$22.4	$23.7	$26.5	$31.5	$37.5	$40.9	$46.0	$50.9

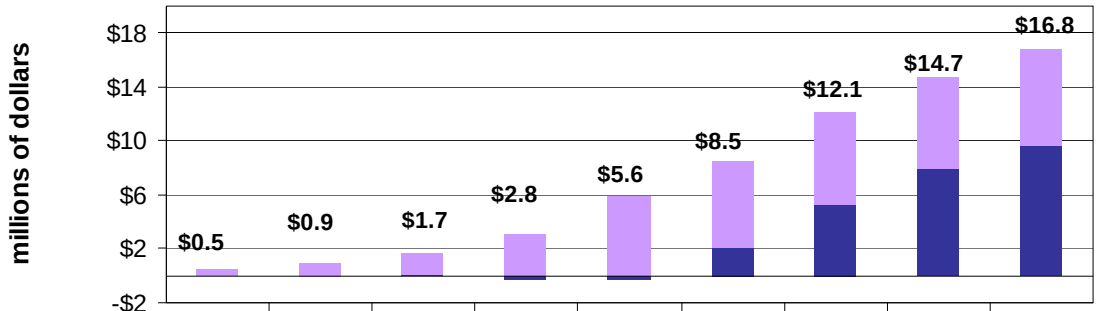
Note: Figures may not add due to rounding.
Bill reductions exclude savings due to codes & standards.
Demand savings resulting from the Curtailable Rates Program are excluded from this analysis.

Power Smart customer service initiatives and incentive-based programs have saved participating customers over $50 million in 2009/10 and over $405 million cumulatively on electricity bills to date.

Natural Gas Bill Reduction

Customers also save on their natural gas bills when participating in certain Power Smart initiatives. Exhibit 4.1.4-B displays annual customer bill reductions resulting from net Power Smart natural gas initiatives savings to date (net of interactive effects.).

Exhibit 4.1.4-B
Customer Natural Gas Bill Reduction (2009$)
millions of dollars



	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10
CSI Savings	$0.5	$0.9	$1.7	$3.1	$5.8	$6.5	$6.9	$6.8	$7.1
Incentive-Based Savings	$0.0	$0.0	$0.0	-$0.3	-$0.3	$2.0	$5.2	$7.9	$9.7
Total	$0.5	$0.9	$1.7	$2.8	$5.6	$8.5	$12.1	$14.7	$16.8

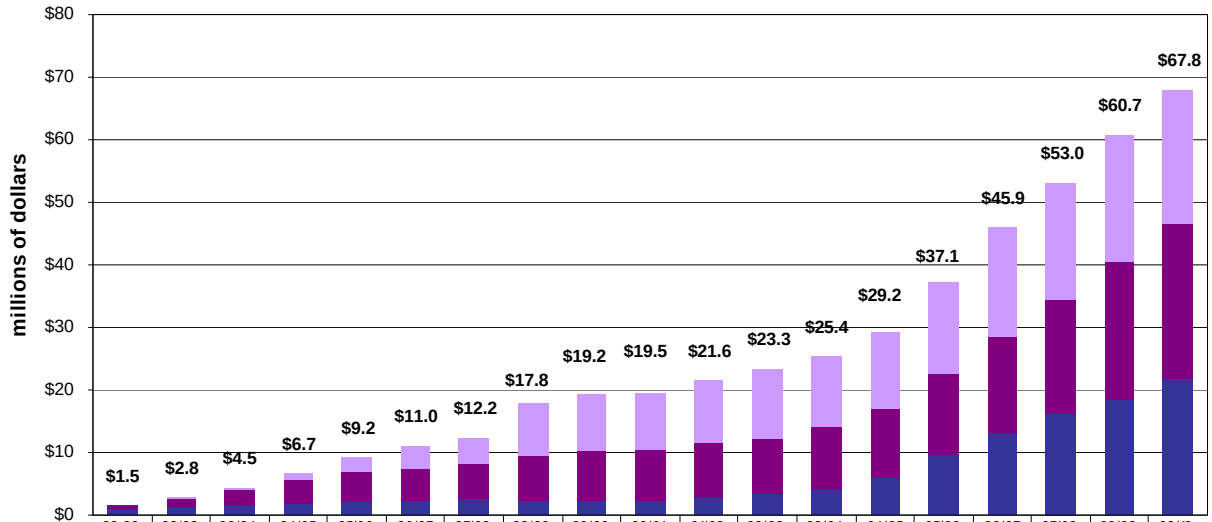
Note: Figures may not add due to rounding.
Bill reductions exclude savings due to codes & standards.
Interactive effects in 2009/10 resulted in a $3.3 million increase in customer bills, which is captured within incentive-based savings.
Natural gas bill reduction includes primary and distribution rates only.

As a result of Power Smart initiatives, participating customers saved more than $16 million in 2009/10 and $64 million cumulatively on their natural gas bills to date.

Combined Bill Reduction

The following graph presents the annual customer bill reduction for participants of Power Smart customer service initiatives and incentive-based programs by sector. Savings include those from both electric and natural gas initiatives.

Exhibit 4.1.4-C
Combined Electricity & Natural Gas Customer Bill Reduction (2009$)
Total Annual Reductions by Sector
millions of dollars



	89-92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10
Industrial	$0.0	$0.3	$0.4	$1.0	$2.3	$3.5	$4.0	$8.3	$9.0	$9.0	$10.1	$10.9	$11.3	$12.2	$14.6	$17.4	$18.6	$20.3	$21.1
Commercial	$0.5	$1.2	$2.4	$3.7	$4.9	$5.3	$5.7	$7.1	$7.8	$8.1	$8.6	$9.1	$10.1	$11.0	$12.8	$15.4	$18.4	$21.8	$24.8
Residential	$1.0	$1.4	$1.6	$1.9	$2.0	$2.3	$2.5	$2.4	$2.4	$2.3	$2.9	$3.3	$4.1	$5.9	$9.7	$13.1	$16.1	$18.6	$21.9
Total	$1.5	$2.8	$4.5	$6.7	$9.2	$11.0	$12.2	$17.8	$19.2	$19.5	$21.6	$23.3	$25.4	$29.2	$37.1	$45.9	$53.0	$60.7	$67.8

Note: Figures may not add due to rounding.
Bill reductions exclude savings due to codes & standards.
Demand savings resulting from the Curtailable Rates Program are excluded from this analysis.
Natural gas bill reduction includes primary and distribution rates only.

Power Smart customer service initiatives and incentive-based programs saved participating customers over $67 million in 2009/10 alone. Approximately 31%, 37% and 32% were saved by industrial, commercial and residential customers respectively.

To date, participating customers have saved approximately $470 million cumulatively on electricity and natural gas bills. Approximately 37%, 38% and 25% were saved cumulatively by industrial, commercial and residential customers respectively.

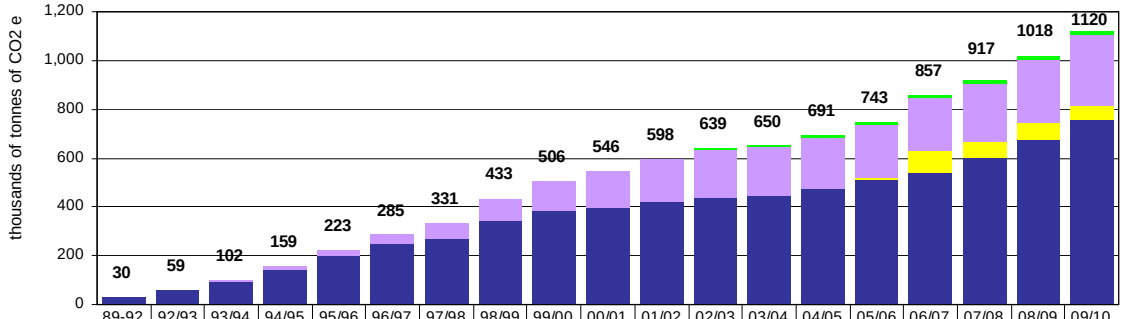
4.1.5 Power Smart Program Impact on Greenhouse Gas Emissions

The energy efficiency measures and improvements installed through Manitoba Hydro's Power Smart programs reduce the amount of greenhouse gas and other air polluting emissions from power generation and the transmission and distribution of natural gas, and will continue to do so over their product lives. Both electricity and natural gas consumption reductions have a positive impact on greenhouse gas emissions.

Impact of Electricity Savings

As Manitobans conserve electric energy through Power Smart programs, more hydro electricity is available for export. These exports displace coal and natural gas fuelled generation outside of Manitoba, which results in significant global reductions of greenhouse gases and other emissions. Therefore, the impact of Power Smart programs on global greenhouse gas emissions is quantified based on estimates of reduced coal and natural gas fuelled generation outside the province, and is measured in carbon dioxide equivalent emissions. Because the emission reductions do not occur at the site of the participating customer, these reductions are referred to as indirect emission reductions. Exhibit 4.1.5-A shows the equivalent reduction in carbon dioxide emissions resulting from Power Smart electric program activity to date.

Exhibit 4.1.5-A
Total Annual Indirect Greenhouse Gas Emission Reductions due to Electric Savings
thousands of tonnes of CO2e



	89-92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10
CSI savings	0	0	0	0	0	0	0	0	0	0	2	3	6	8	10	11	13	15	17
Codes & Standards	0	2	7	15	24	38	60	88	119	149	172	196	201	209	213	218	237	258	290
Self Generation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	89	63	70	59
Incentive-based savings	30	56	95	144	199	246	271	345	387	398	424	439	444	474	512	539	604	676	754
Total	30	59	102	159	223	285	331	433	506	546	598	639	650	691	743	857	917	1018	1120

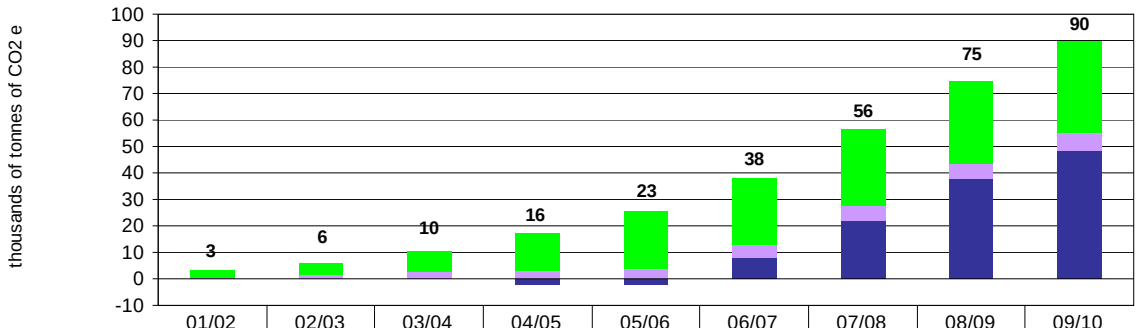
Note: Figures may not add due to rounding.

The 1,660 GW.h savings resulting from electricity Power Smart program activity and codes and standards initiatives to date have displaced greenhouse gas emissions by approximately 1,120 thousand tonnes of carbon dioxide equivalent emissions. This is comparable to removing approximately 224 thousand cars off the road in the United States for one full year.

Impact of Natural Gas Savings

Power Smart natural gas programs result in direct emission reductions at the location of the participating customer. The following chart displays direct greenhouse gas reductions that occur as a result of lower natural gas consumption in Manitoba.

Exhibit 4.1.5-B
Total Annual Direct Greenhouse Gas Emission Reductions due to Natural Gas Savings
thousands of tonnes of CO2e



	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10
CSI savings	2	5	8	15	21	25	29	31	35
Codes & Standards	1	1	2	3	4	5	5	6	7
Incentive-based savings	0	0	0	-2	-2	8	22	38	49
Total	3	6	10	16	23	38	56	75	90

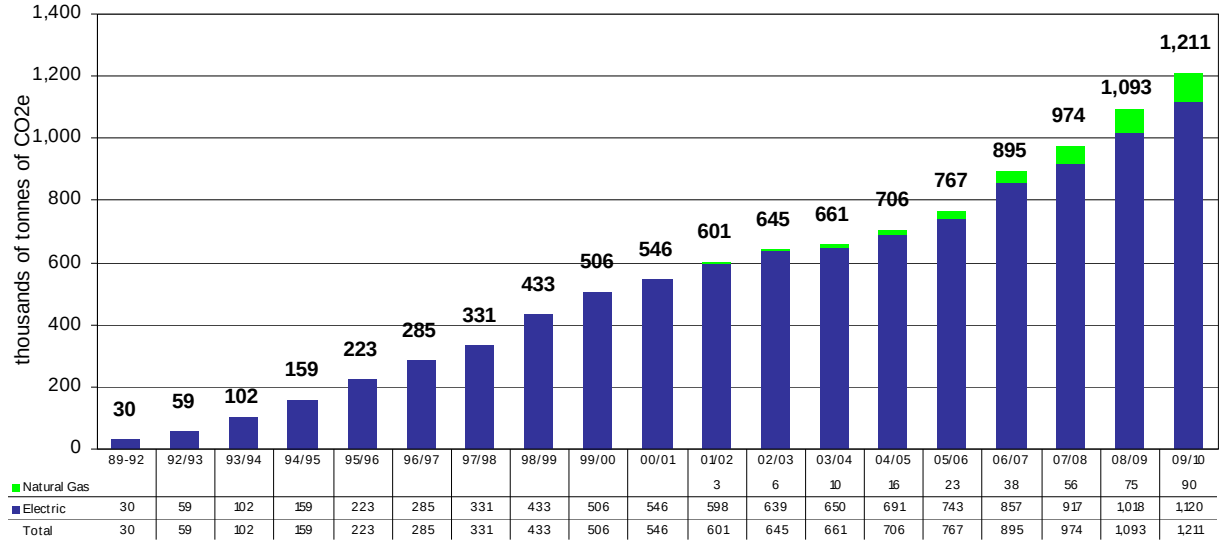
Note: Figures may not add due to rounding.

The 47 million cubic metres of reduced natural gas consumption (after interactive effects) from Power Smart programs to date displaced 90 thousand tonnes of greenhouse gas emissions in 2009/10 alone. This is equivalent to removing approximately 18 thousand vehicles off the road in Manitoba for one full year.

Combined Impact of Electricity and Natural Gas Savings

The following graph presents the greenhouse gas emission reductions that have resulted from all electric and natural gas Power Smart program activity to date.

Exhibit 4.1.5-C
Total Annual Greenhouse Gas Emission Reductions
Due to Electric & Natural Gas Savings
thousands of tonnes of CO2e



	89-92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10
Natural Gas											3	6	10	16	23	38	56	75	90
Electric	30	59	102	159	223	285	331	433	506	546	598	639	650	691	743	857	917	1,018	1,120
Total	30	59	102	159	223	285	331	433	506	546	601	645	661	706	767	895	974	1,093	1,211

The 1,660 GW.h savings from electricity and 47 million cubic metres savings from natural gas Power Smart programs have resulted in greenhouse gas reductions of approximately 1,211 thousand tonnes of carbon dioxide equivalent emissions. This is comparable to removing approximately 242 thousand vehicles off the road for one full year.

4.2 Customer Service Initiatives & Cost Recovery Programs

4.2.1 Annual Energy Savings from Customer Service Initiatives & Cost Recovery Programs

Exhibits 4.2.1-A through 4.2.1-C provide an overview of the estimated electricity and natural gas savings achieved to 2009/10 through customer service initiatives and cost recovery programs, for those programs where energy savings can be reasonably measured or estimated using engineering calculations.

Exhibit 4.2.1 - A

Annual GW.h Savings - Electric Customer Service Initiatives & Cost Recovery Programs

	2009/10 Actual	2009/10 Plan^	Total*	2024/25 Plan^
		GW.h		
RESIDENTIAL				
Power Smart Residential Loan	1.6	0.6	6.9	15.5
Residential Earth Power Loan	1.1	1.8	11.2	21.5
Solar Hot Water Heating	0.0	0.2	0.0	0.3
ecoENERGY	-	-	0.8	0.8
Adjustment**	-	(0.2)	-	-
	2.7	2.4	18.9	38.0
DISCONTINUED/COMPLETED PROGRAMS	-	-	3.0	0.2
	-	-	3.0	0.2
TOTAL (at customer meter)	2.7	2.4	21.9	38.2
TOTAL (at generation)	3.1	2.7	24.9	43.5

^ Plan estimates are from the *2009 Power Smart Plan*.
* Savings include actual + persisting results.
** Adjustment made due to error in *2009 Power Smart Plan*.

Exhibit 4.2.1 - B

Average Winter MW Savings - Electric Customer Service Initiatives & Cost Recovery Programs

	2009/10 Actual	2009/10 Plan^	Total*	2024/25 Plan^
		MW		
RESIDENTIAL				
Power Smart Residential Loan	0.9	0.3	3.9	8.5
Residential Earth Power Laon	0.5	0.5	3.0	6.3
ecoENERGY	-	-	-	-
Solar Hot Water Heating	-	0.0	-	0.0
	1.4	0.9	6.9	14.8
DISCONTINUED/COMPLETED PROGRAMS	-	-	0.2	0.0
	-	-	0.2	0.0
TOTAL (at customer meter)	1.4	0.9	7.1	14.9
TOTAL (at generation)	1.6	1.0	8.1	16.9

^ Plan estimates are from the *2009 Power Smart Plan*.
* Savings include actual + persisting results.

Exhibit 4.2.1 - C
Annual m^3 Savings - Natural Gas Customer Service Initiatives & Cost Recovery Programs

	2009/10 Actual	2009/10 Plan^	Total*	2024/25 Plan^
		millions of cubic metres		
RESIDENTIAL				
Power Smart Residential Loan	1.6	4.2	13.9	25.1
Residential Earth Power Loan	0.2	-	1.7	0.8
Solar Hot Water Heating	0.0	0.0	0.0	0.0
ecoENERGY	-	-	2.3	2.3
	1.9	4.2	17.9	28.3
DISCONTINUED/COMPLETED PROGRAMS	-	-	0.3	0.0
	-	-	0.3	0.0
TOTAL	1.9	4.2	18.3	28.3

^ Plan estimates are from the *2009 Power Smart Plan*.
* Savings include actual + persisting results.

The *2009 Power Smart Plan* shows Customer Service Initiatives were planned to save 4.2 million cubic metres for the year. However, due to a formula error, the planned savings for the Power Smart Residential Loan program were doubled, thus should have shown 2.1 and not 4.2.

4.3 Energy Efficiency Codes & Standards

Canadian and U.S. electric utilities, including Manitoba Hydro, have been engaged in DSM activities for many years. In addition to utility specific DSM programs, some utilities are involved in a number of provincial and national committees. These committees work with governments and equipment manufacturers to gain acceptance of higher efficiency levels for various technologies and to encourage adoption of energy efficiency standards and regulations.

Manitoba Hydro annually prepares a forecast of the expected influence of codes and standards, and since 1995 this forecast has been and is used to adjust Manitoba Hydro's system load forecast.

In many markets, legislation is the most effective and permanent form of market transformation, as it ensures that customers do not revert to less efficient technologies/practices once the incentives and/or promotional activities are discontinued. Traditionally, changing legislation is complex due to 3 factors:

1. Governance: codes and standards fall under federal, provincial and municipal jurisdictions;

2. Applicability: national energy efficiency standards are difficult to agree upon due to varying environmental and market conditions; and

3. Market Acceptance: industry places less emphasis upon making changes that are not related to safety issues.

4.3.1 National Activities

As Manitoba is not a major manufacturer of energy efficient products and offers a relatively small market for appliances/equipment, Manitoba Hydro's strategy is to be a very active participant, and in many cases a driving force, on a number of National energy efficiency code and standards committees. Manitoba Hydro representatives often chair these committees which undertake 3 functions:

1. Provide industry with assistance in the development of technologies;

2. Develop codes and standards; and

3. Assist in industry and market acceptance of the codes and standards.

These activities have proven to be extremely successful given the adoption and acceptance of code changes in recent years. The following examples highlight some of the efforts underway to encourage the future adoption of National energy efficiency standards and regulations:

Manitoba Hydro is a key player on the CSA Strategic Steering Committee on Performance, Energy Efficiency, and Renewables (SCOPEER), which is responsible for changes to National performance standards and legislation which have resulted in the improvement of energy utilization of numerous appliances. An example of the influence of this committee is in the residential refrigeration market. As a result of the efforts of this committee, working with Canadian manufacturers, refrigerator manufacturers market products which exceed the current minimum efficiency standards for inter-provincial exporting.

Beginning in September 2005, Manitoba Hydro chaired the newly created Manitoba Energy Code Advisory Committee which was tasked to provide recommendations for the adoption, development, and implementation of energy efficiency requirements for all new commercial construction (i.e. new buildings, additions to existing buildings, and major renovation of existing buildings) in Manitoba.

In the report "Building Energy, Building Leadership", the Committee recommended Manitoba adopt the Model National Energy Code for Buildings in the following three stages: (1) Adopt the Model National Energy Code for Buildings (1997) as a regulation under The Buildings and Mobile Homes Act, (2) Develop and adopt Manitoba Amendments to the Model National Energy Code for Buildings by January 1, 2009, and (3) Support and participate in a national initiative to update the Model National Energy Code for Buildings.

The Committee recommended that Manitoba adopt the energy code as a regulation under The Buildings and Mobile Homes Act, rather than as a regulation under The Energy Act because The Buildings and Mobile Homes Act supersedes all other provincial legislation with respect to requirements for buildings.

Manitoba Hydro and representatives of the Province of Manitoba are working together to develop an industry consultation plan and a strategy to implement the recommendations outlined in the report.

Further supporting the development of energy codes for buildings, Manitoba Hydro is a former chair of the Building Energy Codes Collaborative (BECC). BECC is a provincial-territorial-federal committee supported by the Council of Energy Ministers, the Assistant Deputy Minister Steering Committee on Energy Efficiency (ASCEE) and Natural Resources Canada. It consists of representatives from both the code ministries and the

energy ministries of provinces and territories working together to advance energy efficiency in building codes. In 2007 BECC was successful in securing the political and financial support necessary to convince the Canadian Commission on Building and Fire Codes to update the Model National Energy Code for Buildings. Currently, Manitoba, Ontario, Quebec and British Columbia are recognized as the most active and have made the most progress with respect to implementing energy efficiency requirements in buildings.

4.3.2 Provincial Activities

Initially a building code for residential homes was proposed by the Federal Government and was to be adopted by the Province of Manitoba in 1997. Due to a decline in new house starts and the perceived impact on building costs of a proposed Model National Energy Code for Houses (MNECH), it was anticipated that members of the new home construction industry would be reluctant to support the proposed MNECH. Recognizing the MNECH support may be low, Manitoba Hydro initiated and sponsored amendments to Insulation Tables for new houses in the Manitoba building code as an interim measure to shore up eroding insulation practices below the 53rd parallel. The interim measures improved insulation practices in new housing north of the 53rd parallel. As anticipated the MNECH was not adopted, however, Manitoba Hydro's amendments were introduced in Manitoba in November 1998 with the support of the new home construction industry.

In July 2006, the requirements under insulation tables for new houses of the Manitoba Building Code were adjusted to simplify the requirements. Manitoba Hydro played a key role in ensuring that efficiency requirements were not significantly diluted. Insulation requirements for homes heated primarily with natural gas increased; insulation requirements for electrically heated homes were only slightly decreased. As a result, Manitoba's minimum requirements for insulation in new homes are the highest in Canada.

In September 2007, Manitoba Hydro presented research on the life cycle benefits of improved basement insulation to homeowners and was successful at convincing the Building Standards Board of Manitoba to request R20 in foundation walls for all homes in Manitoba.

As of January 1st, 2010, The Manitoba Energy Act regulations state that all natural gas furnaces sold in Manitoba's commercial market must be at least 92% annual fuel utilization efficiency (AFUE) or greater. Meanwhile, Federal regulations require only a minimum efficiency of 90%. As a result, Manitoba Hydro's Commercial Gas Furnace program has had a direct impact on market transformation in Manitoba. For this reason, the additional 2% in energy savings relative to the Federal regulations have been claimed from all furnaces sold in Manitoba's residential & commercial market from January 1st, 2010 forward.

Energy Efficiency Codes and Standards Savings

Code	Rationale	2009/10 at meter	Cumulative
High Efficiency Motors	-MB Hydro becomes member of Coordinated Utilities Approach (CUA) in 1991	0.0 GW.h	16.2 GWh
	-Code Changed in Oct. 1997: minimum level of efficiency increased from 78.5-92.1% to 82.5-95.0%	0.0 MW	2.8 MW
	-2006/07 was the last year incremental savings were claimed for this code		
Appliances	-MB Hydro is a member of Strategic Steering Committee on Performance, Efficiency, and Renewables (SCOPEER)	39.4 GW.h	252.6 GW.h
	-Savings calculated based upon energy star efficiency imporements	5.5 MW	57.2 MW
		135,303 m^3	3,104,792 m^3
Commercial Lighting	-Influenced Federal Government code change improving efficiency of T12 lights from 40 watts to 34 watts	0.4 GW.h	94.5 GW.h
		0.1 MW	26.6 MW
New Homes	-Influenced MB Building Code to shore up existing insulation practices in new housing	2.8 GW.h	14.5 GW.h
		1.2 MW	5.4 MW
		266,335 m^3	266,335 m^3
Furnaces	-Influenced the MB Energy Act which states all residential & commercial market furnaces must be at least 92% AFUE	146,186 m^3	146,186 m^3
TOTAL		42.5 GW.h 6.8 MW 547,824 m^3	377.7 GW.h 91.9 MW 3,517,313 m^3

4.3.3 Energy Efficiency Codes & Standards Annual Energy and Demand Savings

The following section outlines the estimated energy and demand savings resulting from codes and standards improvements in the Manitoba marketplace. As part of the 2009/10 evaluation process, the assumptions and methodologies used in calculating historical codes and standards savings were reviewed and revised where appropriate to reflect more current market knowledge.

Exhibit 4.3.3 - A
Energy Efficiency Codes & Standards
Cumulative GW.h Savings Achieved
(at Customer Meter)

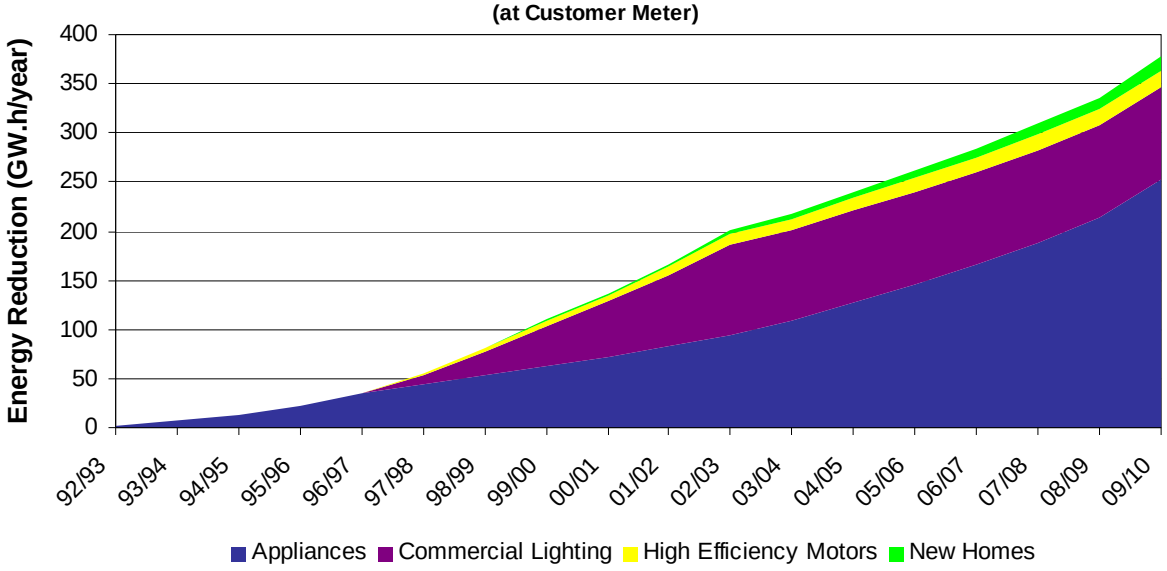


Exhibit 4.3.3 - B
Energy Efficiency Codes & Standards
Cumulativive MW Savings Achieved
(at Customer Meter)

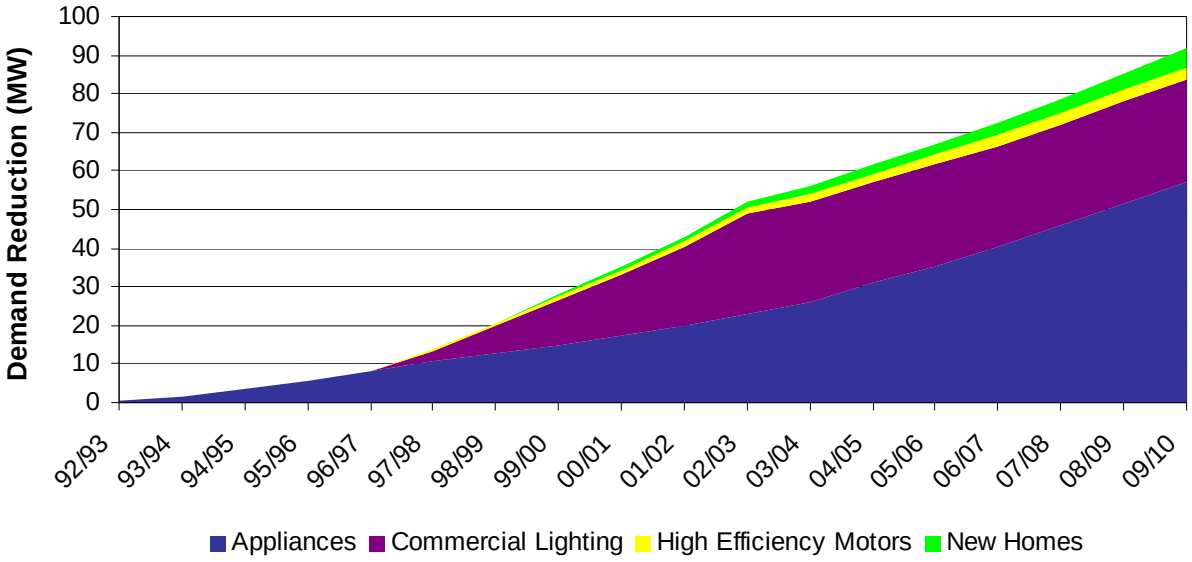
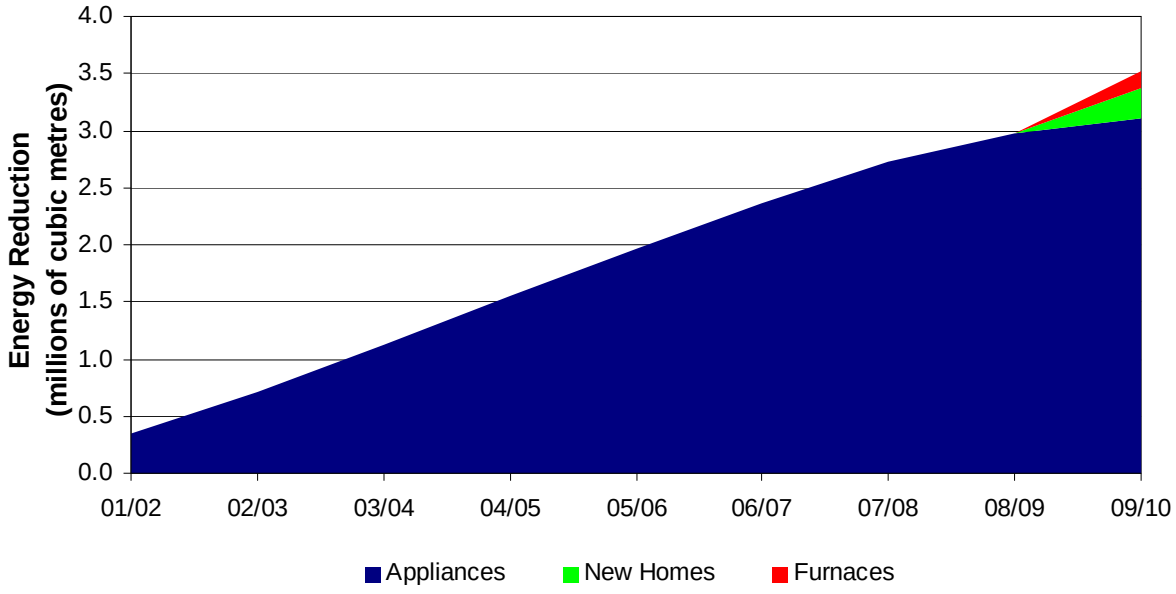


Exhibit 4.3.3 - C
Energy Efficiency Codes & Standards
Cumulative Millions of Cubic Metres Savings Achieved



Because there are many participants (utilities, governments, manufacturers, environmental groups, etc.) contributing to the formation of energy efficiency standards, it is difficult to allocate specific credit for energy and demand savings among the various participants. For this reason, Manitoba Hydro only reports the estimated load reduction results from changes to energy efficiency codes and standards. The estimated savings from codes and standards are not included in Power Smart economic metrics.

4.4 Incentive-Based Power Smart Programs

Power Smart incentive-based programs are designed to accelerate market awareness and acceptance of new energy efficiency standards and practices.

4.4.1 Power Smart Electric Program Results

The following sections outline the Power Smart program results in terms of electric energy and demand savings, benefit/cost analyses and average levelized costs.

4.4.1.1 Annual Energy Savings

Exhibits 4.4.1.1 A and B provide an overview of the energy savings achieved to 2009/10 by incentive-based Power Smart programs.

The following chart represents the contribution to savings that each sector made in 2009/10:

Exhibit 4.4.1.1 - A
% of Annual GW.h Savings - Electric Incentive-Based Programs

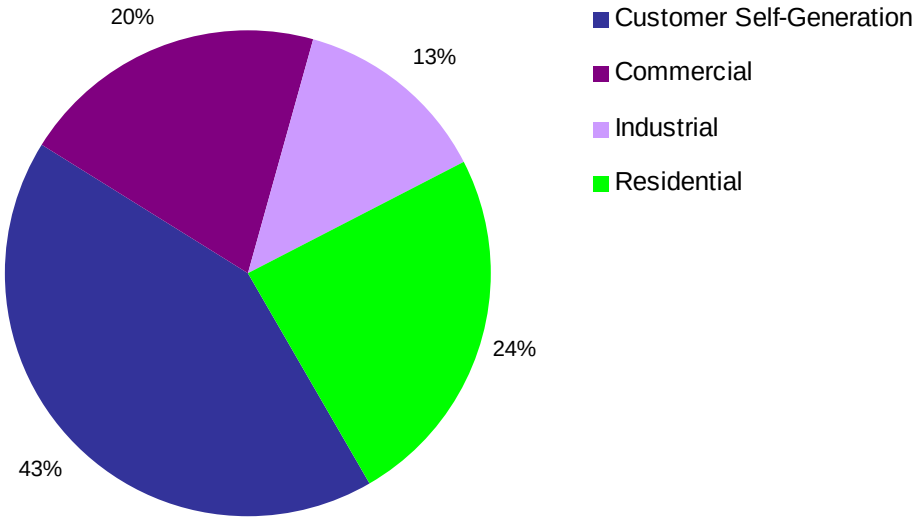


Exhibit 4.4.1.1 - B

Annual GW.h Savings - Electric Incentive Based Programs

	2009/10 Actual	2009/10 Plan^	Total*	2024/25 Plan^
		GW.h		
RESIDENTIAL				
Compact Fluorescent Lighting**	35.9	44.4	77.7	-
Home Insulation Program**	6.3	4.4	28.4	48.0
High Efficient Furnace/Boiler Program	1.3	0.6	1.3	3.1
Lower Income Energy Efficiency Program	0.9	7.5	2.0	12.4
New Home Program	0.6	1.7	4.3	27.1
Energy Efficient Light Fixtures**	0.6	0.6	2.6	3.1
Water & Energy Saver Program	-	2.2	-	25.6
Fridge Recycling Program	-	12.6	-	3.9
Residential Discontinued/Completed Programs**	0.8	2.0	53.9	45.1
	46.3	76.0	170.2	168.3
COMMERCIAL				
Commercial Lighting	20.6	32.6	239.5	515.5
Commercial Building Envelope	4.5	3.6	13.8	55.9
Commercial Earth Power Program**	3.4	1.6	23.6	35.7
Commercial Parking Lot Controllers	2.4	1.9	34.9	38.3
Internal Retrofit	1.6	2.8	21.5	39.4
Commercial Custom Measures	1.4	0.7	17.4	23.6
Commercial Refrigeration	1.3	1.6	5.5	57.4
Agricultural Heat Pads**	1.1	1.6	25.4	24.2
Commercial HVAC - Chillers & CO2 Sensors	0.5	1.0	5.3	24.4
City of Winnipeg Agreement	0.5	0.2	10.8	4.1
Spray Valves	0.4	1.4	5.2	-
Commercial Clothes Washers	0.3	0.3	0.3	2.5
Commercial Kitchen Appliances	0.3	0.2	0.5	3.4
Power Smart Shops	0.3	0.8	0.3	9.9
Commercial Building Optimization	0.2	0.9	0.6	16.0
Commercial Network Energy Management Program	0.0	5.2	0.0	12.7
New Buildings Program	-	-	-	30.6
Power Smart Energy Manager Program	-	1.9	-	3.9
Commercial Discontinued/Completed Programs	-	-	44.0	43.7
	38.9	58.4	448.7	941.1
INDUSTRIAL				
Performance Optimization Program	24.8	12.9	319.6	493.7
Efficient Motors (QMR)	-	-	-	-
Emergency Preparedness	-	-	-	28.5
Industrial Discontinued/Completed Programs	-	-	54.5	54.5
	24.8	12.9	374.1	576.6
EFFICIENCY PROGRAMS SUBTOTAL	109.9	147.3	992.9	1,686.1
CUSTOMER SELF-GENERATION PROGRAMS				
Bioenergy Optimization Program	80.1	67.0	80.1	74.8
	80.1	67.0	80.1	74.8
TOTAL (at customer meter)	190.0	214.3	1,073.0	1,760.8
TOTAL (at generation)	212.4	241.0	1,205.1	1,980.4

^ Plan estimates are from the *2009 Power Smart Plan*.

* Savings include actual + persisting results.

** Includes market transformation.

Note: Figures may not add due to rounding.

Overall, Power Smart incentive-based programs fell 24.3 GW.h below plan. Power Smart Incentive based programs are made up of efficiency based programs and customer self-generation. Efficiency programs were 37.4 GW.h below plan meanwhile customer self-generation was 13.1 GW.h ahead of plan.

The variances within Power Smart incentive-based efficiency programs in 2009/10 are highlighted below:

Delayed program launch of the Water & Energy Saver Program, Fridge Recycling Program and delayed program activity of the Power Smart Energy Manager Program accounted for 16.8 GW.h of the negative variance.

The Commercial Lighting Program did not meet annual energy savings by 12 GW.h. This can be attributed to a higher number of program participants who are taking on smaller lighting projects than in past years.

The Compact Fluorescent Lighting (CFL) Program fell short of planned energy savings by 8.5 GW.h or 19%. The School initiative exceeded their target by 13.1 GW.h, although the shortfall in the Instant Rebate initiative more than offset those gains. The Instant Rebate initiative was 20 GW.h behind plan.

The Lower Income Energy Efficiency Program was 6.6 GW.h behind plan due to lower than expected program driven sales. Program driven sales were 83% behind plan.

The Commercial Network Energy Management Program did not meet its energy savings targets by 5.2 GW.h. The program launch was delayed by several months and planned participation was overly optimistic.

Energy savings for the Performance Optimization Program were 11.9 GW.h or 92% above plan. This was largely due to excellent participation levels, more specifically, program driven sales achieved were 223% above plan.

4.4.1.2 Average Winter Peak Demand Savings

Exhibits 4.4.1.2 A and B highlight the demand savings of incentive-based Power Smart programs achieved to 2009/10. The demand savings are presented as an average of the winter AM and PM system peak savings.

Exhibit 4.4.1.2 - A
% of Average Winter MW Savings - Electric Incentive-Based Programs

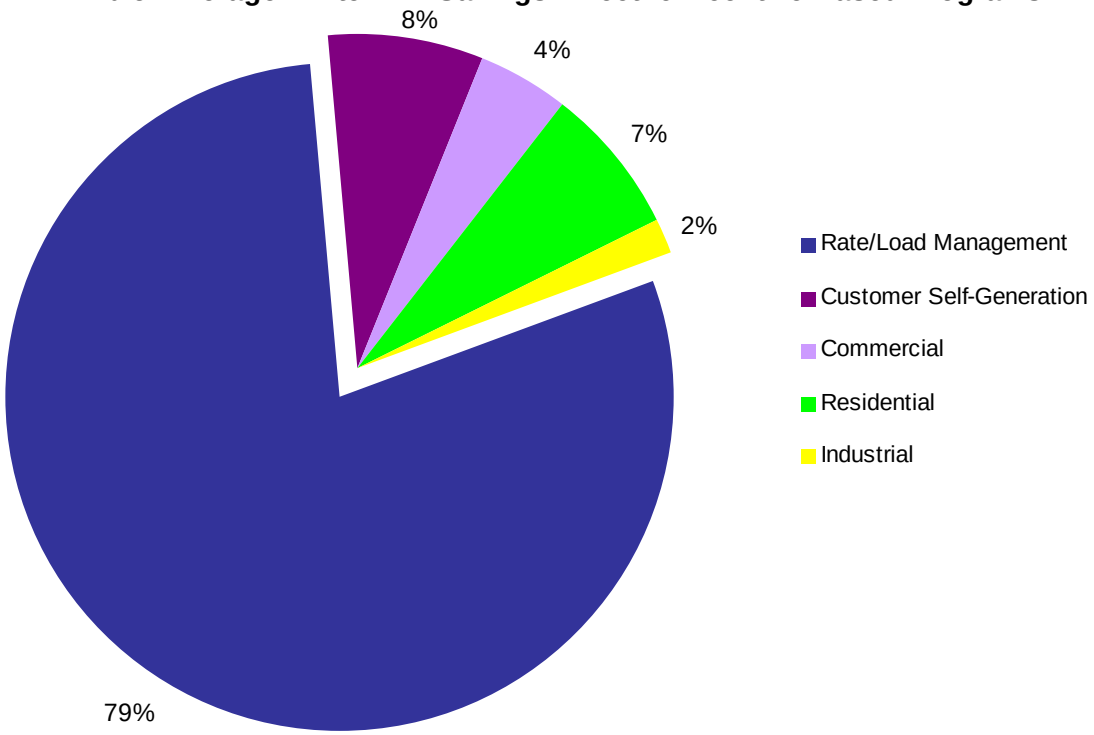


Exhibit 4.4.1.2 - B
Average Winter MW Savings - Electric Incentive Based Programs

	2009/10 Actual	2009/10 Plan^	Total*	2024/25 Plan^
		MW		
RESIDENTIAL				
Compact Fluorescent Lighting**	9.2	11.0	17.7	-
Home Insulation Program**	3.1	2.1	13.8	21.5
High Efficient Furnace/Boiler Program	0.4	0.2	0.4	1.0
Lower Income Energy Efficiency Program	0.3	1.7	0.7	3.2
New Home Program	0.2	0.6	1.2	5.1
Energy Efficient Light Fixtures**	0.1	0.1	0.4	0.7
Water & Energy Saver Program	-	0.4	-	4.2
Fridge Recycling Program	-	1.1	-	0.3
Residential Discontinued/Completed Programs**	0.1	0.4	4.4	3.4
	13.5	17.6	38.7	39.3
COMMERCIAL				
Commercial Lighting	3.8	8.6	42.3	116.1
Commercial Building Envelope	2.2	1.6	6.1	25.5
Commercial Earth Power Program**	1.0	0.7	10.3	15.8
Internal Retrofit	0.3	0.6	3.5	10.1
Commercial Refrigeration	0.3	0.2	1.6	6.4
Commercial Clothes Washers	0.2	0.2	0.2	1.9
City of Winnipeg Agreement	0.2	0.1	2.4	0.5
Agricultural Heat Pads**	0.1	0.2	3.6	3.5
Commercial Kitchen Appliances	0.1	0.1	0.1	1.1
Power Smart Shops	0.1	0.1	0.1	1.2
Spray Valves	0.0	0.2	0.3	-
Commercial Network Energy Management Program	0.0	0.8	0.0	2.0
Commercial Custom Measures	-	0.1	1.2	2.5
Commercial HVAC	-	0.0	-	0.0
Commercial Building Optimization	-	0.3	-	5.3
New Buildings Program	-	-	-	5.9
Power Smart Energy Manager Program	-	0.1	-	0.2
Commercial Discontinued/Completed Programs	-	-	11.0	10.9
	8.3	13.8	82.7	208.9
INDUSTRIAL				
Performance Optimization Program	3.3	2.0	72.0	100.2
Emergency Preparedness	-	-	-	28.5
Industrial Discontinued/Completed Programs	-	-	8.1	7.9
	3.3	2.0	80.2	136.6
EFFICIENCY PROGRAMS SUBTOTAL	25.1	33.3	201.6	384.8
CUSTOMER SELF-GENERATION PROGRAMS				
Bioenergy Optimization Program	14.3	7.3	14.3	9.4
	14.3	7.3	14.3	9.4
RATE/LOAD MANAGEMENT PROGRAMS				
Curtailable Rates	149.2	176.9	149.2	176.9
	149.2	176.9	149.2	176.9
TOTAL (at customer meter)	188.6	217.5	365.0	571.1
TOTAL (at generation)	208.3	240.5	406.4	638.2

^ Plan estimates are from the *2009 Power Smart Plan*.
* Savings include actual + persisting results.
** Includes market transformation.
Note: Figures may not add due to rounding.

Overall demand savings were 29 MW below plan. Power Smart incentive-based efficiency program activities in 2009/10 were 8 MW or 25% below plan. The greatest contributor to the variance was the Curtailable Rates program, which fell 28 MW below plan.

The biggest variances within various programs are highlighted below:

Demand savings for the Curtailable Rates program were 16% or 27.7 MW below plan primarily due to the indefinite shutdown during the 2nd quarter of 2009/10 of one of its four industrial participants.

The Compact Fluorescent Lighting (CFL) Program fell short of planned energy savings by 1.8 MW or 17%. The School initiative exceeded their target by 3.9 MW, although the shortfall in the Instant Rebate initiative more than offset those gains. The Instant Rebate initiative was 5 MW behind plan.

The Fridge Recycling Program did not launch in 2009/10 as originally forecast; as a result, the program did not report demand savings and fell 1.1 MW below plan.

The Commercial Lighting Program did not meet its demand savings target by 56% or 5 MW. This can be attributed to a higher number of program participants who took on smaller lighting projects than in past years.

Demand savings for the Performance Optimization Program were 70% or 1.3MW above plan; this is largely due to excellent participation levels, more specifically, incremental sales of 223% above plan.

4.4.1.3 Electric Rate Impact Measure - Benefit/Cost Analysis

Exhibits 4.4.1.3-A and B identify the benefit/cost ratios under the Rate Impact Measure (RIM) test by program. The calculation of the benefit/cost ratio was based on a 30-year evaluation period. Refer to APPENDIX F - 'Summary of Evaluation and Planning Reports' for further detail of assumptions and of the type of calculations used in evaluating programs. Refer to APPENDIX B- 'Explanation of Benefit/Cost Ratios used in DSM Economic Tests' for formulas and criteria used to determine cost-effectiveness.

Exhibit 4.4.1.3 - A
2009/10 RIM - Electric Incentive Based Programs

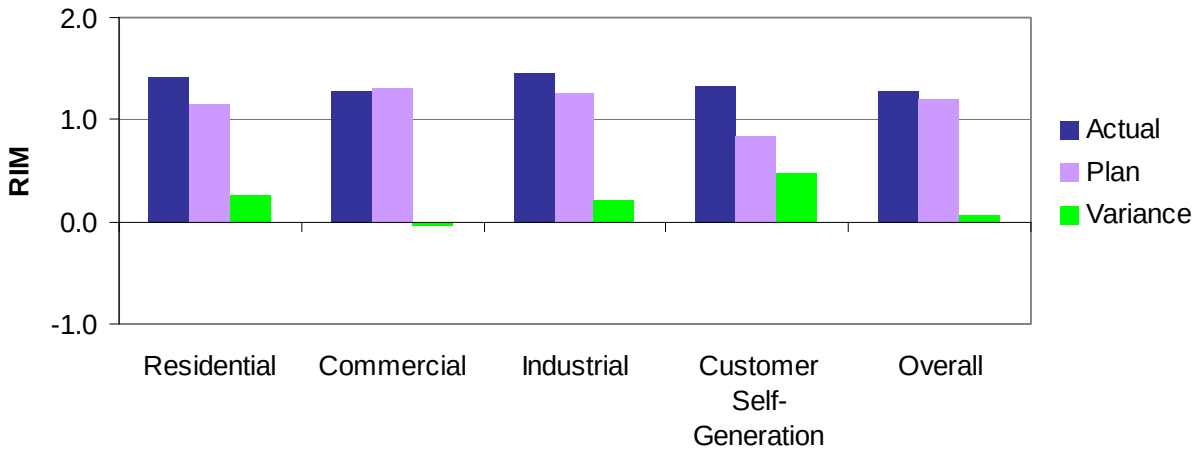


Exhibit 4.4.1.3 - B
Rate Impact Cost Benefit/Cost Analysis - Electric Incentive-Based Program

	Actual	2009/10 Plan^^	Total*	2024/25 Plan^^
			RIM	
RESIDENTIAL				
High Efficiency Furnace/Boiler Program	1.9	1.9	1.9	1.9
Home Insulation Program	1.7	1.6	1.5	1.6
Compact Fluorescent Lighting	1.3	1.3	1.1	1.3
New Home Program	0.9	1.1	0.7	1.4
Energy Efficient Light Fixtures	0.8	0.6	0.8	0.7
Lower Income Energy Efficiency Program**	1.7	1.4	1.4	1.4
Water & Energy Saver Program	-	1.1	-	1.1
Fridge Recycling Program	-	-	-	0.8
	1.4	1.2	1.3	1.2
COMMERCIAL				
Internal Retrofit	1.8	1.4	2.7	1.1
Commercial Earth Power Program	1.8	1.6	1.6	1.6
City of Winnipeg Agreement[ø]	1.6	1.4	0.7	1.5
Commercial Building Envelope	1.6	1.6	1.5	1.5
Commercial Custom Measures	1.6	1.2	1.2	1.2
Commercial Refrigeration	1.5	1.3	1.4	1.4
Agricultural Heat Pads	1.5	1.6	1.6	1.8
Commercial Clothes Washers	1.4	1.5	1.2	1.6
Spray Valves	1.4	1.4	1.4	1.4
Commercial Building Optimization	1.2	1.5	0.4	1.7
Commercial Lighting	1.1	1.3	1.1	1.4
Commercial Kitchen Appliances	1.0	1.0	1.0	1.3
Commercial Parking Lot Controllers	1.2	1.2	1.3	1.7
Commercial HVAC	0.8	0.9	1.0	1.1
Power Smart Shops	0.6	0.7	0.5	1.0
Commercial Network Energy Management Program	0.1	1.0	0.1	1.1
New Buildings Program	-	-	-	1.1
Power Smart Energy Manager Program	-	1.3	-	1.5
	1.3	1.3	1.2	1.4
INDUSTRIAL				
Performance Optimization Program	1.5	1.3	1.3	1.4
Emergency Preparedness	-	0.0	-	1.1
	1.5	1.3	1.3	1.3
DISCONTINUED/COMPLETED PROGRAMS	0.8	0.0	0.7	-
CUSTOMER SELF-GENERATION PROGRAMS				
Bioenergy Optimization Program	1.3	0.9	1.3	1.4
OVERALL PROGRAM COSTS	1.3	1.2	1.2	1.3
OVERALL PROGRAM COSTS + SUPPORT COSTS^	1.3	1.2	1.1	1.3

* "Total" values represent the results of the program/portfolio since its inception.
** Excludes all Affordable Energy Fund expenditures. LIEEP's 'Actual' RIM, including AEF costs was 1.1.
^ Support costs contain Customer Service Initiatives and Basic Information Services and program support costs.
^^ Plan estimates are from the *2009 Power Smart Plan*.
ø Includes the present value of projected future commitment payment receipts.
Note: Benefit/cost analysis is not calculated for rate/load management programs.

4.4.1.4 Electric Average Levelized Utility Costs - ¢/kW.h Saved

Exhibits 4.4.1.4-A and B highlight the average levelized cost of 2009/10 electric incentive-based programs in ¢/kW.h. The calculation of ¢/kW.h saved was based upon current program kW.h savings at generation over a 30-year evaluation period. Refer to APPENDIX E - 'Summary of Evaluation and Planning Reports' for further detail of assumptions and of the type of calculations used in evaluating programs. The utility costs presented do not include costs associated with customer service initiatives, standards activities, or the customer costs of demand-side management measures.

Exhibit 4.4.1.4 - A
2009/10 Average Levelized Utility Cost
at generation

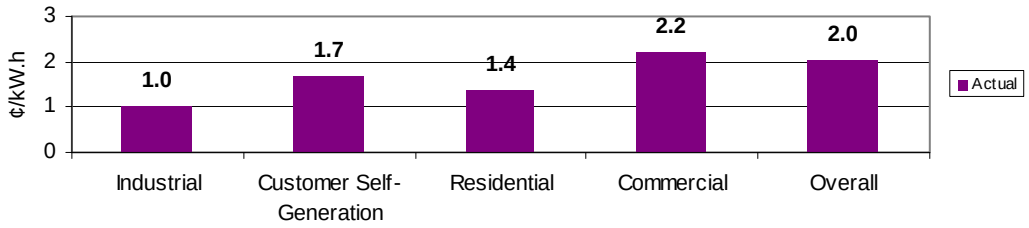


Exhibit 4.4.1.4 - B
Average Levelized Utility Cost at Generation - ¢/kW.h saved by Power Smart Program

	2009/10 Actual	Total***	2024/25 Plan^^
	¢/kW.h		
RESIDENTIAL			
New Home Program	5.9	8.5	0.6
Energy Efficient Light Fixtures	3.7	4.4	5.3
Home Insulation Program	1.6	2.6	2.2
Lower Income Energy Efficiency Program*	0.9	2.3	0.6
Compact Fluorescent Lighting	0.9	1.5	0.8
Water & Energy Saver Program	-	-	1.3
Fridge Recycling Program	-	-	2.5
Discontinued/Completed Programs	4.3	0.7	0.7
	1.4	1.4	1.4
COMMERCIAL			
Commercial Clothes Washers	4.4	7.5	3.1
Internal Retrofit	4.1	2.5	2.2
Commercial Kitchen Appliances	3.0	3.7	2.6
Commercial Lighting	2.6	1.4	1.7
Commercial HVAC	2.0	1.6	1.0
Commercial Building Optimization	1.9	6.9	1.4
Commercial Parking Lot Controllers	1.8	1.1	0.5
Commercial Building Envelope	1.8	2.4	3.2
Commercial Custom Measures	1.1	0.8	2.5
Agricultural Heat Pads	0.9	0.3	0.2
Commercial Refrigeration	0.9	1.7	0.6
Commercial Earth Power Program	0.8	1.3	2.3
City of Winnipeg Agreement	0.7	8.4	1.1
Spray Valves	0.3	0.2	0.3
New Buildings Program**	n/a	n/a	3.2
Power Smart Energy Manager Program**	n/a	n/a	0.6
Commercial Network Energy Management Program **	n/a	n/a	1.4
Power Smart Shops**	n/a	n/a	2.1
Discontinued/Completed Programs	-	2.7	n/a
	2.2	1.5	1.8
INDUSTRIAL			
Performance Optimization Program	1.0	0.7	1.6
Emergency Preparedness	-	-	6.3
Discontinued/Completed Programs	-	1.1	-
	1.0	0.7	2.2
CUSTOMER SELF-GENERATION PROGRAMS			
Bioenergy	1.7	1.6	1.6
OVERALL: PROGRAM COSTS	1.7	1.1	1.7
OVERALL: PROGRAM COSTS + SUPPORT COSTS^	2.0	1.5	1.9

* Excludes all Affordable Energy Fund expenditures. LIEEP's 'Actual' levelized cost, including AEF was 5.2 ¢/kW.h.
** Programs in the start-up phase are not evaluated on average levelized utility costs metric because the results can be misleading.
*** "Total" values represent the results of the program/portfolio since its inception.
^ Support costs contain Customer Service Initiatives and Basic Information Services and program support costs.
^^ Plan estimates are from the *2009 Power Smart Plan.*
Note: Average levelized cost analysis is not provided for rate/load management programs.

4.4.2 Power Smart Natural Gas Program Results

The following sections outline the Power Smart program results in terms of natural gas energy savings, benefit/cost analyses and average levelized costs.

4.4.2.1 Annual Natural Gas Energy Savings

Exhibits 4.4.2.1-A and B provide an overview of the energy savings achieved to 2009/10 by incentive-based Power Smart programs.

The following chart represents the contribution to savings each sector made in 2009/10:

Exhibit 4.4.2.1 - A
% of Annual Natural Gas Savings by Incentive-Based Programs

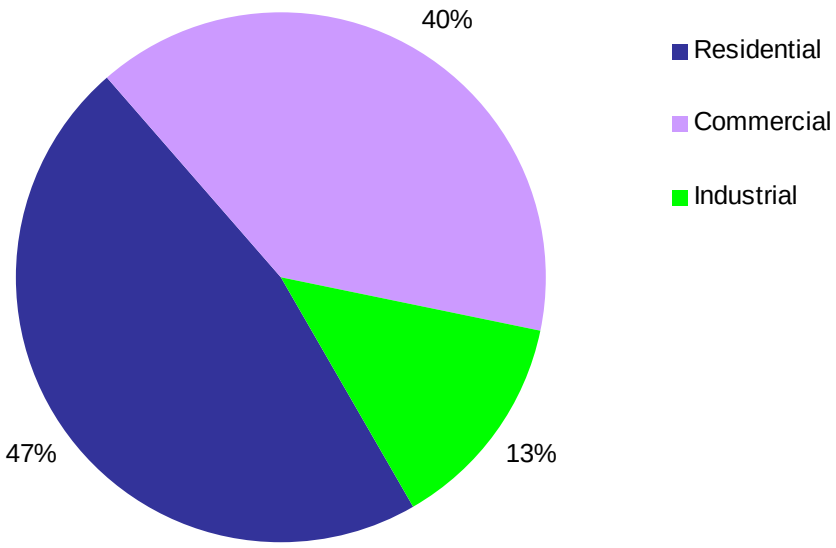


Exhibit 4.4.2.1 - B
Annual Natural Gas Savings - Incentive-Based Programs

	2009/10 Actual	2009/10 Plan^	Total*	2024/25 Plan^
		millions of cubic metres		
RESIDENTIAL				
Home Insulation Program**	2.0	1.3	7.6	14.8
High Efficiency Furnace/Boiler Program	1.2	0.6	6.9	7.9
Lower Income Energy Efficiency Program	0.6	1.8	0.7	2.2
New Home Program	0.1	0.1	0.4	7.8
Water & Energy Saver Program	-	0.3	-	3.1
Residential Discontinued/Completed Programs	-	0.1	0.2	0.2
	3.9	4.2	15.8	36.0
COMMERCIAL				
Commercial HVAC	1.4	1.7	6.2	35.1
Commercial Building Envelope	1.4	1.5	3.7	25.1
Spray Valves	0.3	0.3	2.4	-
Commercial Building Optimization	0.1	0.2	0.2	3.5
Commercial Custom Measures	0.1	0.1	0.1	0.7
City of Winnipeg Agreement	0.0	0.0	0.7	0.1
Commercial Kitchen Appliances	0.0	0.0	0.0	1.2
Power Smart Shops	0.0	0.0	0.0	0.2
New Buildings Program	-	0.0	-	2.1
Power Smart Energy Manager Program	-	0.1	-	0.3
Commercial Clothes Washers	-	0.0	-	0.2
Commercial Discontinued/Completed Programs	-	-	-	-
	3.3	4.0	13.4	68.5
INDUSTRIAL				
Natural Gas Optimization Program	1.1	0.7	4.9	6.1
Industrial Discontinued/Completed Programs	-	-	-	-
	1.1	0.7	4.9	6.1
EFFICIENCY PROGRAMS SUBTOTAL	8.2	8.9	34.1	110.6
CUSTOMER SELF-GENERATION PROGRAMS				
Bioenergy	-	-	-	3.6
	-	-	-	3.6
INTERACTIVE EFFECTS WITH ELECTRICITY PROGRAMS				
RESIDENTIAL				
Fridge Recycling Program	-	(0.8)	-	(0.3)
New Home Program	(0.0)	(0.0)	(0.0)	(0.1)
Energy Efficient Light Fixtures	(0.0)	(0.0)	(0.2)	(0.3)
Lower Income Energy Efficiency Program	(0.1)	-	(0.1)	-
Compact Fluorescent Lighting	(3.0)	(4.1)	(6.5)	-
Residential Discontinued/Completed Programs	0.0	(0.0)	0.2	(0.0)
	(3.2)	(5.0)	(6.6)	(0.6)
COMMERCIAL				
Commercial Refrigeration	0.0	0.1	0.3	2.5
Commercial Clothes Washers	0.0	-	0.0	-
City of Winnipeg Agreement	(0.0)	-	(0.1)	-
Commercial Network Energy Management Program	(0.0)	(0.1)	(0.0)	(0.2)
Power Smart Shops	(0.0)	(0.0)	(0.0)	(0.2)
Commercial Lighting	(0.2)	(0.2)	(2.1)	(3.1)
	(0.1)	(0.2)	(1.9)	(1.0)
INTERACTIVE EFFECTS SUBTOTAL	(3.3)	(5.2)	(8.6)	(1.6)
NET IMPACTS				
Residential Programs	0.72	(0.83)	9.18	35.33
Commercial Programs	3.15	3.83	11.45	67.50
Industrial Programs	1.1	0.7	4.9	6.1
Customer Self-Generation Programs	-	-	-	3.6
NET IMPACT OVERALL	5.0	3.7	25.6	112.6

^ Plan estimates are from the *2009 Power Smart Plan*.
* Savings include actual + persisting results.
** Includes market transformation.
Note: Figures may not add due to rounding.

Power Smart incentive-based efficiency program activity in 2009/10 provided 8.2 million cubic metres of natural gas savings, 8% below plan.

Although the overall performance of all Power Smart Programs was 8.2 million cubic metres, only 0.7 million cubic metres below the planned target of 8.9 million cubic metres, some program variances are highlighted below:

The High Efficiency Furnace/Boiler Program exceeded planned energy savings by 0.6 million cubic metres of natural gas due program participation being 172% above Plan.

The Home Insulation Program exceeded its planned natural gas targets by 0.7 million cubic metres, due mostly to net annual natural gas program driven sales being 46% above Plan.

The Lower Income Energy Efficiency Program's actual natural gas savings were 1.2 million cubic metres below the planned target of 1.8 million cubic metres. In 2009/10, the Lower Income Energy Efficiency Program achieved 65% fewer annual program driven sales, which correlates to the amount of natural gas savings achieved being approximately a third of target.

The Commercial HVAC Program's 1.4 million cubic metres savings were 0.3 million cubic metres below plan due to over-aggressive planned commercial furnace participation and due to commercial boiler projects being more small scale than planned.

Delayed program launch of the Water & Energy Saver program and delayed program activity in the Power Smart Energy Manager program account for a negative variance of 0.4 million cubic metres.

Some Power Smart electricity programs have interactive effects which can result in an increase or decrease in natural gas consumption. For example, a more energy efficient lighting system emits less heat, requiring more energy to heat the space. In cases where the heat is produced through electric heating sources, the interactive effect is taken into account when calculating the anticipated electricity savings that will result from the program. In cases where the heat is produced through natural gas heating systems, the interactive effects are reported here. These interactive effects represent the increase in natural gas consumption for gas-heated homes from installing energy efficient lighting systems.

In 2009/10, interactive effects increased consumption by 3.3 million cubic metres, reducing integrated incentive-based natural gas savings to 5.0 million cubic metres. Interactive effects were lower than planned by 1.4 million cubic metres primarily due to the CFL program, where incremental sales in the residential instant rebate program fell 61% short of target.

4.4.2.2 Natural Gas Rate Impact Measure - Benefit/Cost Analysis

Exhibits 4.4.2.2-A and B identify the benefit/cost ratios under the Rate Impact Measure (RIM) test. The calculation of the benefit/cost ratio was based on a 30-year evaluation period. Refer to APPENDIX F- 'Summary of Evaluation and Planning Reports' for further detail of assumptions and the type of calculations used in evaluating programs. Refer to APPENDIX B - 'Explanation of Benefit/Cost Ratios used in DSM Economic Tests' for formulas and criteria used to determine cost-effectiveness.

Exhibit 4.4.2.2 - A
2009/10 RIM - Natural Gas Incentive-Based Programs

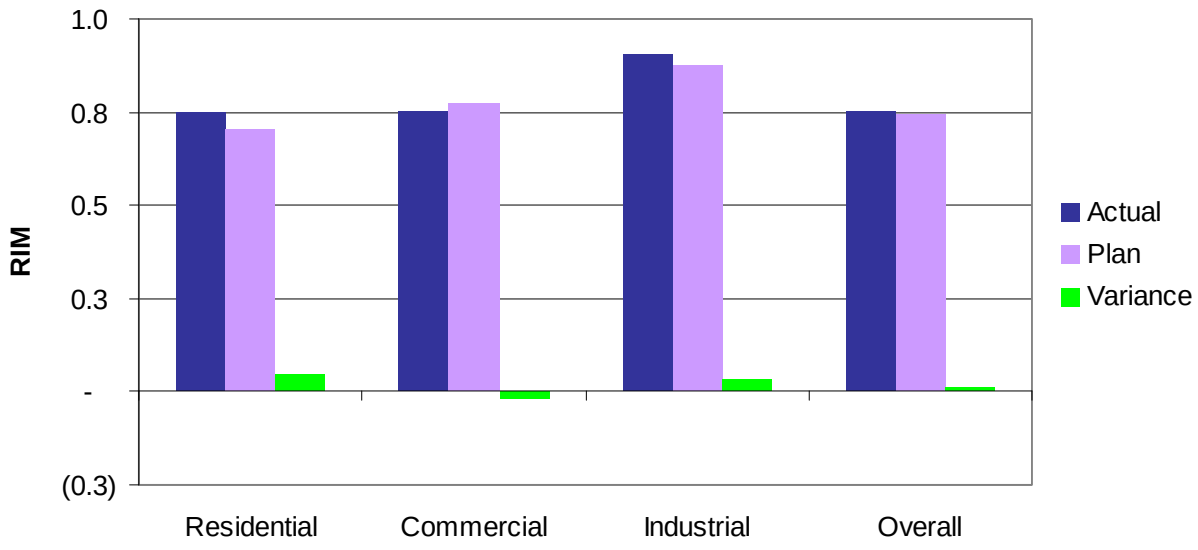


Exhibit 4.4.2.2 - B
Rate Impact Cost Benefit/Cost Analysis - Natural Gas Incentive-Based Program

	Actual	2009/10 Plan^^	Total*	2024/25 Plan^^
		RIM		
RESIDENTIAL				
New Home Program	0.8	0.7	0.7	1.0
High Efficiency Furnace/Boiler Program	0.8	0.7	0.7	0.8
Home Insulation Program	0.8	0.7	0.7	0.7
Lower Income Energy Efficiency Program**	0.6	0.6	0.5	0.4
Water & Energy Saver Program	-	-	-	0.7
	0.7	0.7	0.7	0.7
COMMERCIAL				
City of Winnipeg Agreement†	1.0	-	1.0	-
Spray Valves	0.9	0.9	0.9	0.9
Commercial HVAC	0.8	0.8	0.8	0.9
Commercial Custom Measures	0.7	0.7	0.7	0.7
Commercial Building Envelope	0.7	0.8	0.7	
Commercial Building Optimization	0.5	0.6	0.4	0.7
Commercial Kitchen Appliances	0.4	0.6	0.5	0.8
Power Smart Shops	0.2	0.7	0.2	0.8
New Buildings Program	-	-	-	0.9
Power Smart Energy Manager Program	-	0.8	-	0.9
	0.8	0.8	0.8	0.8
INDUSTRIAL				
Natural Gas Optimization Program	0.9	0.9	0.9	0.9
	0.9	0.9	0.9	0.9
DISCONTINUED/COMPLETED PROGRAMS	-	-	0.6	0.9
CUSTOMER SELF-GENERATION				
Bioenergy Optimization Program	-	-	-	0.9
OVERALL: PROGRAM COSTS	0.8	0.7	0.7	0.8
OVERALL: PROGRAM COSTS incl. INTERACTIVE EFFECTS	0.8	0.7	0.7	0.7
OVERALL: PROGRAM COSTS + SUPPORT COSTS incl. INTERACTIVE EFFECTS^	0.8	0.7	0.7	0.7

^ Support costs contain Customer Service Initiatives and Basic Information Services and program support costs.
^^ Plan estimates are from the *2009 Power Smart Plan*.
* "Total" values represent the results of the program/portfolio since its inception.
** Includes all Furnace Replacement Program expenditures. LIEEP's 'Actual' RIM, including apportioned AEF, without Furnace Replacement Program was 0.5. LIEEP's 'Actual' RIM with Furnace Replacement Program only was 0.3. LIEEP's 'Actual' RIM, including apportioned AEF and Furnace Replacement Program was 0.5.
† Includes only natural gas bill reduction costs. All other costs were accounted for within electric cost elements.

4.4.2.3 Natural Gas Average Levelized Utility Costs - ¢/cubic metres Saved

Exhibits 4.4.2.3-A and B highlight the average levelized cost of incentive-based programs implemented prior to 2009/10 in ¢/cubic metres. The calculation of ¢/cubic metres saved was based upon current program natural gas savings over a 30-year evaluation period. Refer to APPENDIX E - 'Summary of Evaluation and Planning Reports' for further details of assumptions and of the types of calculations used in evaluating programs. The utility costs presented do not include costs associated with future Power Smart incentive-based programs, customer service initiatives, standards activities, or the customer costs of demand-side management measures.

Exhibit 4.4.2.3 - A
2009/10 Average Levelized Utility Cost (¢/m³)

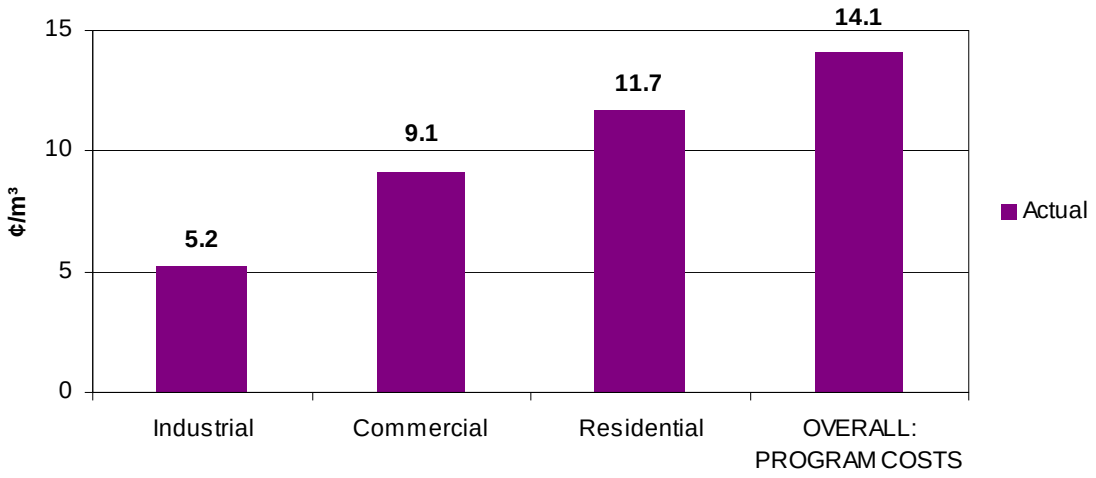


Exhibit 4.4.2.3 - B

Average Levelized Utility Cost - ¢/m³ saved by Power Smart Program

	2009/10 Actual	Total***	2024/25 Plan^^
	¢/m^3		
RESIDENTIAL			
Lower Income Energy Efficiency Program*	23.6	32.0	20.2
Home Insulation Program	10.1	9.8	17.3
High Efficiency Furnace/Boiler Program	9.9	9.3	6.7
New Home Program	8.9	10.2	1.0
Water & Energy Saver Program	-	-	11.4
	11.7	10.3	11.4
COMMERCIAL			
Commercial Kitchen Appliances	44.0	31.3	6.4
Commercial Building Optimization	27.2	48.8	14.7
Commercial Custom Measures	12.3	12.3	15.5
Commercial Building Envelope	11.0	10.3	9.8
Commercial HVAC	6.0	6.0	4.6
Spray Valves	1.3	1.8	2.6
New Buildings Program**	n/a	n/a	5.7
Power Smart Energy Manager Program**	n/a	n/a	3.1
Power Smart Shops**	n/a	n/a	5.4
	9.1	7.4	7.2
INDUSTRIAL			
Natural Gas Optimization Program	5.2	2.5	5.5
DISCONTINUED/COMPLETED PROGRAMS	-	17.1	-
OVERALL: PROGRAM COSTS	10.1	8.3	8.2
OVERALL: PROGRAM COSTS incl. INTERACTIVE EFFECTS†	11.8	9.6	9.0
OVERALL: PROGRAM COSTS + SUPPORT COSTS incl. INTERACTIVE EFFECTS^	14.1	12.6	11.3

* Includes all Furnace Replacement Program expenditures. LIEEP's 'Actual' levelized cost, including apportioned AEF, without Furnace Replacement Program was 38.4 ¢/m^3. LIEEP's 'Actual' levelized cost with Furnace Replacement Program only was 100.4 ¢/m^3. LIEEP's 'Actual' levelized cost, including apportioned AEF and Furnace Replacement Program was 47.8 ¢/m^3.

** Programs in the start-up phase are not evaluated against average levelized utility costs metric because the results can be misleading.

*** "Total" values represent the results of the program/portfolio since its inception.

^ Support costs contain Customer Service Initiatives and Basic Information Services and program support costs.

^^ Plan estimates are from the *2009 Power Smart Plan*.

† Increased or decreased natural gas benefits resulting from electric incentive-based programs have been included in the overall calculation.

4.4.3 Power Smart Combined Electricity & Natural Gas Program Results

Total Resource Cost - Benefit/Cost Analysis

Exhibits 4.4.3-A and B show the combined electricity and natural gas benefit/cost analysis results under the Total Resource Cost (TRC) test by program. The calculation of the benefit/cost ratio was based on a 30-year evaluation period.

Exhibit 4.4.3 - A
2009/10 TRC - Combined Electric & Gas Incentive-Based Programs

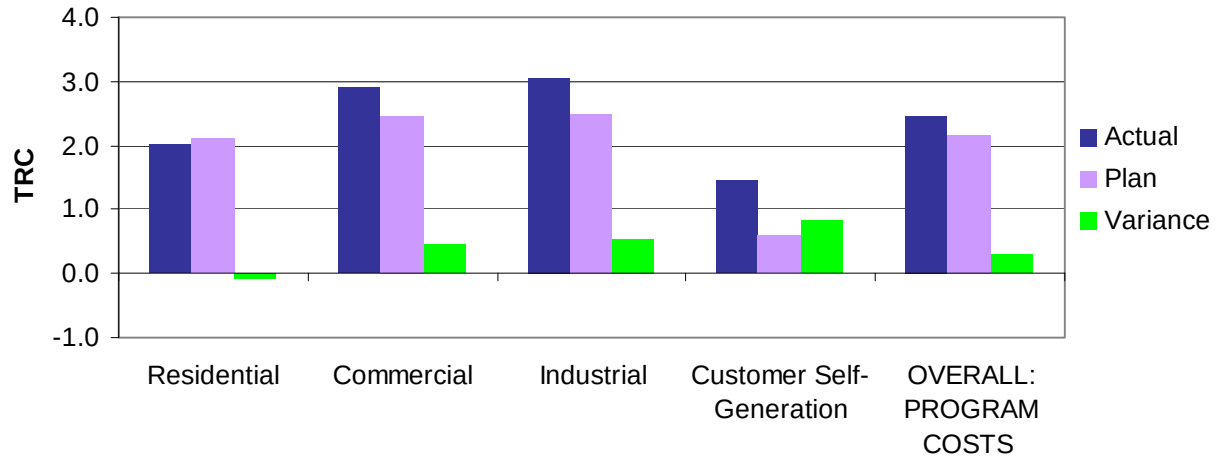


Exhibit 4.4.3 - B
Total Resource Cost Benefit Analysis - Combined Electric & Gas Incentive-Based Program

	Actual	2009/10 Plan^^	Total****	2024/25 Plan^^
			TRC	
RESIDENTIAL				
Compact Fluorescent Lighting**	11.0	9.3	3.6	9.7
Home Insulation Program**	3.0	3.0	2.9	2.7
Energy Efficient Light Fixtures**	2.3	1.0	1.4	1.5
High Efficiency Furnace/Boiler Program	1.3	1.2	1.3	2.3
New Home Program	0.9	1.3	1.0	1.4
Lower Income Energy Efficiency Program*†	0.6	1.0	0.6	1.2
Water & Energy Saver Program	-	4.7	-	8.4
Fridge Recycling Program	-	1.0	-	1.0
	2.0	2.1	2.0	2.3
COMMERCIAL				
Spray Valves†	77.5	23.1	57.9	51.7
Agricultural Heat Pads**	26.8	41.2	45.5	143.9
Commercial Refrigeration	4.7	6.4	3.7	6.8
City of Winnipeg Agreement***†	3.8	5.9	1.5	8.2
Commercial Building Envelope	3.2	1.9	3.0	1.7
Commercial HVAC**	3.2	3.4	3.2	3.5
Commercial Lighting	3.0	2.7	2.4	2.4
Commercial Parking Lot Controllers	2.5	2.7	3.6	3.7
Commercial Earth Power Program**	2.3	2.5	1.9	2.7
Commercial Kitchen Appliances†	4.4	1.5	4.0	2.4
Internal Retrofit	1.8	1.4	2.5	1.1
Commercial Building Optimization	1.6	2.0	0.6	2.7
Commercial Clothes Washers†	2.2	0.7	1.8	2.2
Commercial Custom Measures	1.1	2.0	1.6	2.0
Power Smart Shops†	0.9	1.1	0.7	1.9
Commercial Network Energy Management Program	0.1	2.9	0.1	3.2
Power Smart Energy Manager Program	-	2.6	-	3.3
New Buildings Program	-	-	-	1.7
	2.9	2.5	2.6	2.3
INDUSTRIAL				
Performance Optimization Program	3.6	3.1	3.5	3.8
Natural Gas Optimization Program	1.7	1.5	2.5	1.5
Emergency Preparedness	-	-	-	2.4
	3.1	2.5	3.4	3.0
DISCONTINUED/COMPLETED PROGRAMS**†	5.2	-	1.9	-
	5.2		1.9	
CUSTOMER SELF-GENERATION PROGRAMS				
Bioenergy Optimization Program	1.4	0.6	1.4	1.8
	1.4	0.6	1.4	1.8
OVERALL: PROGRAM COSTS	2.5	2.2	2.5	2.3
OVERALL: PROGRAM COSTS + SUPPORT COSTS^	2.2	2.1	2.2	2.2

* LIEEP's 'Actual' TRC, without the Furnace Replacement Program was 0.8. LIEEP's Furnace Replacement Program's 'Actual' TRC was 0.2.
** Includes market transformation.
*** Includes the present value of projected future commitment payment receipts.
**** "Total" values represent the results of the program/portfolio since its inception.
† Includes water savings benefits.
^ Support costs contain Customer Service Initiatives and Basic Information Services and program support costs.
^^ Plan estimates are from the *2009 Power Smart Plan*.
Note: Increased or decreased natural gas benefits resulting from electric incentive-based programs have been included in the overall calculation.
Benefit/cost analysis is not calculated for rate/load management programs.

For 2009/10, the combined overall TRC benefit/cost ratio including support costs was 2.2, which is above the plan target. Results indicate that all evaluated energy efficiency Power Smart programs, except the Lower Income Energy Efficiency Program, the New Home Program, Power Smart Shops, and Network Energy Management Program were cost-effective under the Total Resource Cost test in 2009/10.

5.0 Total Power Smart Utility Costs

Total utility costs include all costs incurred by the utility in the planning, development, design, implementation, and evaluation of Power Smart programs.

Program costs are costs attributed to a specific program and include program administration costs and incentive costs, while support costs are costs of activities supporting Power Smart programs which cannot be wholly assigned to any one specific program.

These costs include activities such as Power Smart promotions (general branding), promoting sustainability and standards, and demand side management administration (overall planning and evaluation). Support costs also include costs attributed to running Customer Service Initiative programs and the basic information portions of the efficiency programs.

5.1 Summary of Total Power Smart Utility Costs

Exhibit 5.1 summarizes the utility costs of programs cumulative to 2009/10. The reported utility costs cumulative to 2009/10 are presented in nominal dollars and detail actual accounting expenditures to 2009/10 for all Power Smart initiatives and activities.

Exhibit 5.1
Summary of Utility Costs cumulative to 2009/10

UTILITY COSTS	Cumulative *millions of nominal dollars*
TOTAL UTILITY COSTS	
Program Cost	278.0
Support Cost	59.2
	337.2
TOTAL UTILITY COSTS	337.2

Note: Support costs include both customer service initiatives and support activity costs.
As of April 1, 2004, natural gas programs were added to the Power Smart portfolio.
Figures may not add due to rounding.

As of March 31st, 2010, Manitoba Hydro had invested $337 million in Power Smart. The highest component of this expenditure was the program utility costs at $278 million, which is 82% of the total expenditures cumulative to 2009/10.

5.2 Utility Costs by Program

Exhibits 5.2-A and B outline the costs to the utility for Power Smart programs implemented between April 1, 1989 and March 31, 2010.

Exhibit 5.2 - A
Utility Costs for Support, Basic Information Services & Customer Service Initiatives & Standards

	Actual 2009$	Cumulative nominal $
CUSTOMER SERVICE INITIATIVES		
Customer Service Initiatives & Standards Electric Cost	*236*	*2,096*
Customer Service Initiatives & Standards Natural Gas Cost	*-88*	*2,742*
	147	4,838
BASIC INFORMATION SERVICES		
Basic Information Services Electric Cost	*1,684*	*16,110*
Basic Information Services Gas Cost	*483*	*3,699*
	2,167	19,809
Discontinued/Completed Basic Information Services		
Discontinued/Completed Basic Information Services Electric Cost	*0*	*2,884*
Discontinued/Completed Basic Information Services Gas Cost	*0*	*20*
	0	2,904
SUPPORT COSTS		
Power Smart Communications		
Power Smart Communications Electric Cost	*858*	*13,333*
Power Smart Communications Natural Gas Cost	*702*	*2,755*
	1,561	16,087
Residential Retrofit		
Residential Retrofit Electric Cost	*82*	*368*
Residential Retrofit Natural Gas Cost	*153*	*580*
	236	948
Retrofit Demonstrations		
Retrofit Demonstrations Electric Cost	*1*	*48*
Retrofit Demonstrations Natural Gas Cost	*0*	*80*
	1	128
Integrated Plan/Targets		
Integrated Plan/Targets Electric Cost	*254*	*3,152*
Integrated Plan/Targets Natural Gas Cost	*208*	*543*
	462	3,695
DSM Administration		
DSM Administration Electric Cost	*206*	*3,421*
DSM Administration Natural Gas Cost	*168*	*753*
	374	4,174
DSM Tracking System		
DSM Tracking System Electric Cost	*19*	*374*
DSM Tracking System Natural Gas Cost	*16*	*23*
	35	396
Commercial Audits		
Commercial Audits Electric Cost	*0*	*133*
Commercial Audits Natural Gas Cost	*1*	*47*
	1	180
Energy Efficiency Screening Studies		
Energy Efficiency Screening Studies Electric Cost	*13*	*13*
Energy Efficiency Screening Studies Gas Cost	*8*	*8*
	21	21
Power Smart Residential Support		
Power Smart Residential Support Electric Cost	*28*	*28*
Power Smart Residential Support Gas Cost	*42*	*42*
	70	70
Sustainabilities & Standards		
Sustainabilities & Standards Electric Cost	*189*	*424*
Sustainabilities & Standards Natural Gas Cost	*155*	*581*
	344	1,005
Power Smart for Business		
Power Smart for Business Electric Cost	*196*	*1,258*
Power Smart for Business Natural Gas Cost	*131*	*506*
	326	1,764
Discontinued/Completed Support Costs		
Discontinued/Completed Support Costs Electric Cost	*0*	*3,157*
Discontinued/Completed Support Costs Natural Gas Cost	*0*	*0*
	0	3,157
Total Support Costs & CSI & Standards Electric Cost	*3,766*	*46,798*
Total Support Costs & CSI & Standards Gas Cost	*1,978*	*12,378*
TOTAL SUPPORT COSTS & CUSTOMER SERVICE INITIATIVES & STANDARDS	5,744	59,176

Exhibit 5.2 - B

Utility Cost of Programs

	Actual 2009$	Cumulative nominal $
	thousands of dollars	
EFFICIENCY PROGRAMS		
RESIDENTIAL		
Home Insulation Program		
Home Insulation Program Electric Cost	*1,675*	*9,666*
Home Insulation Program Natural Gas Cost	*2,945*	*10,853*
	4,621	20,520
New Home Program		
New Homes Electric Cost	*575*	*4,403*
New Homes Natural Gas Cost	*87*	*483*
	661	4,887
High Efficiency Furnace/Boiler Program (Natural Gas)	1,531	8,597
Compact Fluorescent Lighting	1,578	6,282
Energy Efficient Light Fixtures	185	1,079
Energy Efficient Appliances	397	5,539
Lower Income Energy Efficiency Program		
First Nation Program	*39*	*65*
Lower Income Energy Efficiency Program Electric Cost	*72*	*594*
Lower Income Energy Efficiency Program Natural Gas Cost	*737*	*1,144*
	848	1,803
Water & Energy Saver Program		
WESP Electric Cost	*49*	*156*
WESP Gas Cost	*40*	*40*
	90	197
Fridge Recycling Program	11	153
Residential Exploratory Programs		
Residential Exploratory Program Electric Cost	*20*	*20*
Residential Exploratory Program Gas Cost	*0*	*0*
	20	20
Discontinued/Completed Residential Program Costs		
Discontinued/Completed Residential Program Electric Cost	*23*	*3,033*
Discontinued/Completed Residential Program Gas Cost	*1*	*334*
	24	3,367
Total Residential Program Electric Cost	*4,625*	*30,991*
Total Residential Program Gas Cost	*5,342*	*21,453*
RESIDENTIAL EFFICIENCY PROGRAM SUBTOTAL	9,967	52,444

Exhibit 5.2 - B (Continued)
Utility Cost of Programs

	Actual 2009$	Cumulative nominal $
	thousands of dollars	
COMMERCIAL		
Commercial Custom Measures		
Commercial Custom Measures Electric Cost	*210*	*2,219*
Commercial Custom Measures Natural Gas Cost	*140*	*231*
	350	2,450
Commercial Insulation		
Commercial Insulation Electric Cost	*228*	*1,210*
Commercial Insulation Natural Gas Cost	*1,242*	*3,045*
	1,471	4,254
Commercial Windows		
Commercial Windows Electric Cost	*1,008*	*2,611*
Commercial Windows Natural Gas Cost	*779*	*1,812*
	1,787	4,423
Commercial Parking Lot Controllers	508	5,623
Commercial Earth Power Program	383	3,633
Commercial HVAC		
Commercial HVAC Electric Cost	*159*	*1,221*
Commercial HVAC Natural Gas Cost	*1,091*	*4,733*
	1,250	5,954
CO2 Sensors		
CO2 Sensors Electric Cost	*1*	*2*
CO2 Sensors Gas Cost	*28*	*38*
	30	40
Internal Retrofit*	3,066	26,181
Commercial Lighting	7,253	54,898
Agricultural Heat Pads	115	886
City of Winnipeg Agreement	45	10,618
Commercial Refrigeration	183	1,138
Spray Valves		
Spray Valves Electric Cost	*9*	*87*
Spray Valves Natural Gas Cost	*27*	*334*
	36	421
Commercial Building Optimization Program		
Commercial Building Optimization Program Electric Cost	*26*	*330*
Commercial Building Optimization Program Natural Gas Cost	*234*	*895*
	260	1,226
Power Smart Energy Manager Program		
Power Smart Energy Manager Program Electric Cost	*86*	*280*
Power Smart Energy Manager Program Natural Gas Cost	*71*	*290*
	157	571
New Buildings Program		
New Buildings Electric Cost	*162*	*409*
New Buildings Program Natural Gas Cost	*108*	*316*
	269	724
Commercial Clothes Washers	136	257
Commercial Kitchen Appliances		
Commercial Kitchen Appliances Electric Cost	*82*	*180*
Commercial Kitchen Appliances Natural Gas Cost	*55*	*112*
	137	292
Power Smart Shops		
Power Smart Shops Electric Cost	*241*	*303*
Power Smart Shops Natural Gas Cost	*80*	*97*
	322	399
Commercial Network Energy Management Program	68	91
Commercial Exploratory Programs		
Commercial Exploratory Program Electric Cost	*0*	*0*
Commercial Exploratory Program Gas Cost	*22*	*22*
	22	22
Discontinued/Completed Commercial Programs		
Discontinued/CompletedCommercial Program Electric Cost	*0*	*8,797*
Discontinued/Completed Commercial Program Gas Cost	*0*	*0*
	0	8,797
Total Commercial Program Electric Cost	*13,971*	*120,974*
Total Commercial Program Gas Cost	*3,878*	*11,924*
COMMERCIAL EFFICIENCY PROGRAM SUBTOTAL	17,849	132,898

Exhibit 5.2 - B (Continued)
Utility Cost of Programs

	Actual 2009$	Cumulative nominal $
	thousands of dollars	
INDUSTRIAL		
Performance Optimization Program	2,910	23,214
Natural Gas Optimization Program	597	1,397
Emergency Preparedness	70	151
	3,577	24,762
Industrial Exploratory Programs		
Industrial Exploratory Program Electric Cost	*0*	*0*
Industrial Exploratory Program Gas Cost	*0*	*0*
	0	0
Discontinued/Completed Industrial Programs		
Discontinued/Completed Industrial Program Electric Cost	*0*	*2,708*
Discontinued/Completed Industrial Program Gas Cost	*0*	*0*
	0	2,708
Total Industrial Program Electric Cost	*2,980*	*26,072*
Total Industrial Program Gas Cost	*597*	*1,397*
INDUSTRIAL EFFICIENCY PROGRAM SUBTOTAL	3,577	27,469
EFFICIENCY PROGRAMS COSTS		
Total Efficiency Program Electric Cost	*21,576*	*178,036*
Total Efficiency Program Gas Cost	*9,817*	*34,775*
EFFICIENCY PROGRAM SUBTOTAL	31,393	212,811
CUSTOMER SELF GENERATION		
Bioenergy Optimization Program		
Bioenergy Optimization Program Electric Cost	*1,488*	*6,527*
Bioenergy Optimization Program Natural Gas Cost	*0*	*112*
	1,488	6,638
RATE/LOAD MANAGEMENT PROGRAMS		
Curtailable Rates	*5,767*	*58,563*
	5,767	58,563
TOTAL PROGRAM COSTS		
Total Program Electric Cost	*28,831*	*243,126*
Total Program Gas Cost	*9,817*	*34,886*
TOTAL PROGRAM COSTS	38,648	278,012

* Includes 2 million for Downtown Office Project which was not allocated to the Internal Retrofit Program in 2009/10.
Note: As of April 1, 2004, natural gas programs were added to the Power Smart portfolio.
Figures may not add due to rounding.

5.3 Utility Costs by Energy Source

Exhibit 5.3
Summary of Electricity & Natural Gas Utility Costs

	Actual 2009$	Cumulative nominal $
	millions of dollars	
ELECTRICITY		
Program Cost	28.8	243.1
Support Cost	3.8	46.8
	32.6	289.9
NATURAL GAS		
Program Cost	9.8	34.9
Support Cost	2.0	12.4
	11.8	47.3
TOTAL UTILITY COSTS (ELECTRICITY + NATURAL GAS)	44.4	337.2

Note: Support costs include both customer service initiatives and support activity costs.

Total Power Smart electricity initiatives represent 73% of total Power Smart Expenditures in 2009/10 and 86% of cumulative Power Smart expenditures to date.

5.4 The Affordable Energy Fund

The Affordable Energy Fund was established during 2006/07 through the Winter Heating Cost Control Act and it supports Manitoba Hydro's sustainable development initiatives. The purpose of the Fund is to provide support for programs and services that achieve specific objectives including encouraging energy efficiency and conservation through programs and services for rural and northern Manitobans, low income customers and seniors and encouraging the use of alternative energy sources such as renewable energy.

Exhibit 5.4 provides a summary of Affordable expenditures:

Exhibit 5.4

Summary of Affordable Energy Expenditures

	2006/07	2007/08	2008/09	2009/10	Cumulative
			thousands of nominal dollars		
Lower Income Expenditures					
Lower Income/Community Based Initiative	256	219	893	1,672	3,039
Community Support and Outreach	0	0	35	130	166
	256	219	928	1,802	3,205
Support Expenditures					
Geothermal Support	619	270	92	104	1,086
Oil and Propane Heated Residential Homes	0	75	85	31	190
Special Projects					
Residential Energy Assessment Service	*0*	*61*	*241*	*85*	*387*
Oil and Propane Furnace Replacement	*0*	*0*	*6*	*36*	*42*
Solar Water Heating	*0*	*0*	*89*	*119*	*208*
Power Smart Residential Loan	*0*	*0*	*0*	*130*	*130*
	619	406	513	506	2,044
Community Energy Development	0	0	0	750	750
TOTAL EXPENDITURES	875	625	1,441	3,058	5,999

5.5 Lower Income Furnace Replacement

The Lower Income Furnace Replacement Budget was established during 2007/08 as a result of Public Utility Board Order 99/07. The purpose of the budget is to establish and administer a natural gas Furnace Replacement Program for low income customers.

Exhibit 5.5 outlines the Lower Income Furnace Replacement Expenditures:

Exhibit 5.5

Summary of Furnace Replacement Expenditures

	2008/09	2009/10	Cumulative
		thousands of nominal dollars	
Natural Gas Furnace Replacement	264	815	1,079
TOTAL EXPENDITURES	264	815	1,079

APPENDIX A

Sources of Evaluation and Planning Estimates

Many sources are used to identify the evaluation estimates of load savings and utility costs resulting from Power Smart programs. These include:

Sources of Evaluation

Impact Evaluation Reports

Impact evaluation reports are prepared for Power Smart programs to identify net program load savings and costs as well as the cost-effectiveness of these savings. Net savings and costs differ from gross savings and costs as they take into consideration factors such as free riders, free drivers, heating/cooling interactive effects, and persistence effects.

A number of variables potentially affect the cost effectiveness of Power Smart programs. These variables are electric energy, demand or natural gas reduction, hours of operation, measure persistence, average measure life, measure reinvestment, and changes in marginal cost values.

Life-to-Date Expenditure Report

The utility costs cumulative to 2009/10 are tracked annually from the Annual DSM Expenditure Report.

Engineering Estimates

As experts in various technologies, engineering expertise is used to quantify usage and savings data. Computer simulation and modeling may also be used.

Sales & Market Data

Includes in-depth market knowledge of specialists, product specifications and ratings, sales and replacement data.

Sources of Planning Estimates

2009/10 Electric Planning Estimates

The 2009/10 electric planning estimates were taken from the *2009 Power Smart Plan.*

In all cases the *2009 Power Smart Plan* volumes and estimates were used regardless of delays in programs launches and modifications.

Consistent usage of the same plan helps reduce the probability of errors and provides a verifiable public target to compare against. Ensuring the same source information helps ensure a realistic and objective evaluation of the programs/portfolio was conducted and improves the reliability and verifiability of the Power Smart Annual Review.

2009/10 Natural Gas Planning Estimates

The 2009/10 natural gas planning estimates were taken from the *2009 Power Smart Plan*.

In all cases the *2009 Power Smart Plan* volumes and estimates were used regardless of delays in program launches and modifications.

2024/25 Planning Estimates

The 2024/25 electric planning targets for energy and demand savings are from the *2009 Power Smart Plan* report which includes forecasts for 2009/10 through to 2024/25. The 1992/93 through to 2008/09 planning estimates for energy and demand savings are from the respective Power Smart Resource Options reports or Power Smart Plan. Electric long range planning targets did not exist prior to 1992/93.

The 2024/25 natural gas planning targets are from the approved DSM option in the *2009 Power Smart Plan* report which includes forecasts for 2009/10 through to 2024/25. Natural gas long range planning targets did not exist prior to 2005/06.

Consistent usage of the same plan helps reduce the probability of errors and provides a verifiable public target to compare against. Maintaining the same source information helps ensure a realistic and objective evaluation of the programs/portfolio was conducted and improves the reliability and verifiability of the Power Smart Annual Review.

The 2009/10 to 2024/25 planning estimates for utility costs are included in the current Integrated Financial Forecast report (IFF09-1).

The 2008/09 and 2007/08 planning estimates are from IFF08-1 and IFF07-1 respectively. The 1990/91 to 2006/07 planning estimates are from IFF90-4, IFF91-4, IFF92-4, IFF93-3, IFF94-2, IFF95-1, IFF96-1, IFF97-1, IFF98-1, IFF99-1, IFF00-1, IFF01-1, IFF02-1, IFF03-1 and IFF05-1, IFF06-1 respectively. The 2009/10 planning estimates are from the *2009 Power Smart Plan* report.

APPENDIX B

Explanation of Benefit-Cost Ratios Used in DSM Economic Tests

Total Resource Cost (TRC) Test

The Total Resource Cost (TRC) test is used to assess the benefits of an energy efficiency program irrespective of who realizes the benefits and who pays the costs. Any economic transfers between Manitoba Hydro and the participating customer are excluded from the calculation.

The TRC is calculated based on the following formula:

$$TRC = \frac{PV(\text{Marginal Benefits})}{PV(\text{Total Program Administration Costs} + \text{Incremental Product Costs})}$$

Where:

- For electricity, the Marginal Benefits include the revenue realized by Manitoba Hydro from conserved electricity being sold in the export market, the avoided cost of new infrastructure (e.g. electric transmission facilities) and measurable non-energy benefits (e.g. water savings).
- For natural gas, the Marginal Benefits include Manitoba Hydro's avoided cost of purchasing natural gas, avoided transportation costs, the value of reduced greenhouse gas emissions (GHGs) and measurable non-energy benefits (e.g. water savings).
- Total Program Administration Costs include the administrative costs involved in program planning, design, marketing, implementation and evaluation. It includes all costs associated with offering the Power Smart program except for customer incentive costs.
    - Note: The City of Winnipeg Program evaluation treated commitment payments paid by Manitoba Hydro as administration costs. Projected future commitment payment cash inflows to Manitoba Hydro were netted against commitment payments made to the City of Winnipeg.
- Incremental Product Costs include the total incremental costs associated with implementing a Power Smart measure. It is the difference in costs between the energy efficient technology and the standard technology that would have been installed in the absence of the program.

Rate Impact Measure (RIM) Test

The Rate Impact Measure (RIM) test is used to provide an indication of the long term impact of an energy efficiency program on energy rates. The test indicates the cost effectiveness of a program from the ratepayer's perspective. All program related savings and costs incurred by the utility, including revenue loss and incentive payments, are taken into account in this assessment.

The RIM is calculated based on the following formula:

$$RIM = \frac{PV(\text{Utility Marginal Benefits})}{PV(\text{Revenue Loss + Utility Program Administration Costs + Incentives})}$$

Where:

- For electricity, the Utility Marginal Benefits include the revenue realized by Manitoba Hydro from conserved electricity being sold in the export market and the avoided cost of new infrastructure (e.g. electric transmission facilities).
- For natural gas, the Utility Marginal Benefits include Manitoba Hydro's avoided cost of purchasing natural gas, avoided transportation costs and the value of reduced greenhouse gas emissions (GHGs).
- Revenue Loss includes Manitoba Hydro's lost revenue associated with the participants' reduced energy consumption (i.e. customer bill reductions).
- Utility Program Administration Costs include the costs to Manitoba Hydro associated with program planning, design, marketing, implementation and evaluation. It includes all costs associated with offering the Power Smart program except for customer incentive costs.
- Incentives include the funds transferred from Manitoba Hydro to the participant associated with implementing the Power Smart measure.

Levelized Utility Cost (LUC)

The Levelized Utility Costs (LUC) is used to provide an economic cost value for the energy saved through an energy efficiency program. The LUC provides the total cost of the conserved energy on a per unit basis levelized over a fixed time period. The cost value allows for a comparison to other supply options and other DSM programs occurring over different time frames.

The LUC is calculated based on the following formula:

$$LUC = \frac{PV\ (Utility\ Program\ Administration\ Costs + Incentives)}{PV\ (Energy)}$$

Where:

- Utility Program Administration Costs include the costs to Manitoba Hydro associated with program planning, design, marketing, implementation and evaluation. It includes all costs associated with offering the Power Smart program except for customer incentive costs.
- Incentives include the funds transferred from Manitoba Hydro to the participant associated with implementing the Power Smart measure.
- Energy includes the annual energy savings associated with the energy efficiency measure.

APPENDIX C

Total Power Smart Participation

Power Smart Participants- Annual Increments*†	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	**2009/10**	***Cumulative***
Residential																						
Residential CSI																						
Home Comfort & Energy Savings Program																						
Power Smart Residential Loan Program													4,873	3,386	4,211	5,114	6,325	7,222	7,427	7,391	6,453	52,402
Mail In/On-Line Energy Assessments													570	532	338	378	234	455	421	251	153	3,332
Home Comfort & Energy Savings Program Subtotal													5,443	3,918	4,549	5,492	6,559	7,677	7,848	7,642	6,606	55,734
ecoENERGY Program[i]													411	1,094	4,085	5,298	6,939	5,001	3,171	4,967	7,009	37,975
WISE Home Program													297	506	570	900	859	612	312	425	450	4,931
Residential Earth Power Program																						
Residential Earth Power Loan														35	92	185	139	85	224	207	114	1,081
Energy Saver Presentations[ii]													58	1,156	453	467	337	610	392	291	192	3,956
New Homes Workshops													40	305	116	158	119	116	0	0	0	854
Solar Water Heating																					18	18
Residential CSI SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	6,249	7,014	9,865	12,500	14,952	14,101	11,947	13,532	14,389	104,549
Residential CSI Discontinued/Completed Programs																						
R-2000 Home Program[ii]													12	19	32							63
Residential Earth Power Program																						
Earth Power Consumer Workshops																150	475	63	0	0	0	688
Residential CSI Discontinued/Completed Programs SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	12	19	32	150	475	63	0	0	0	751
RESIDENTIAL CSI TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	6,261	7,033	9,897	12,650	15,427	14,164	11,947	13,532	14,389	105,300
Residential Incentive-Based Programs																						
New Home Program																36	126	217	204	220	205	1,008
Home Insulation Program																459	1,419	5,211	4,551	4,578	5,093	21,311
Compact Fluorescent Lighting Program																21,663	26,623	17,296	28,933	73,228	99,817	267,560
Energy Efficient Light Fixtures Program																		1,047	2,380	2,691	1,126	7,244
High Efficiency Furnace/Boiler Program																	1,228	7,028	6,630	7,295	5,190	27,371
Water & Energy Saver Program																				0	0	0
Lower Income Energy Efficiency Program																			139	143	716	998
Residential Incentive-Based Programs SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22,158	29,396	30,799	42,837	88,155	112,147	325,492
Residential Incentive-Based Discontinued/Completed Programs																						
Programmable Thermostat Program																		4,948	2,230			7,178
Outdoor Timer	6,169	8,954	8,134	4,812	4,160																	32,229
Refrigerator/Freezer Buy-Back Pilot			474																		0	474
Energy Efficient Water Tank/ Water Savings Measures of the 'No Worry Plan'								201	709	681											0	1,591
Seasonal LED Program																	1,900	10,880	8,144	4,956	0	25,880
Energy Efficient Appliances																		10,374	15,436	13,277	2,451	41,538
Residential Incentive-Based Discontinued/Completed Programs SUBTOTAL	6,169	8,954	8,608	4,812	4,160	0	0	201	709	681	0	0	0	0	0	0	1,900	26,202	25,810	18,233	2,451	108,890
Residential Incentive-Based TOTAL	6,169	8,954	8,608	4,812	4,160	0	0	201	709	681	0	0	0	0	0	22,158	31,296	57,001	68,647	106,388	114,598	434,382
Residential TOTAL	6,169	8,954	8,608	4,812	4,160	0	0	201	709	681	0	0	6,261	7,033	9,897	34,808	46,723	71,165	80,594	119,920	128,987	539,682
Commercial																						
Commercial CSI																						
Religious Buildings Initiative													14	6	25	13	34	63	40	19	9	223
Power Smart Recreation Facility Survey													30	5	6	5	4	5	6	4	1	66
Commercial CSI SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	44	11	31	18	38	68	46	23	10	289
Commercial CSI Discontinued/Completed Programs																						
Power Smart Energy Manageriii												18		20								38
Commercial CSI Discontinued/Completed Programs SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	18	0	20	0	0	0	0	0	0	0	38
Commercial CSI TOTAL	0	0	0	0	0	0	0	0	0	0	0	18	44	31	31	18	38	68	46	23	10	327

Power Smart Participants- Annual Increments*†	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Cumulative
Commercial Incentive-Based Programs																						
Commercial Custom Measures***																		4	3	1	13	21
Building Envelope***																		172	179	244	371	966
Commercial HVAC***																		99	112	131	107	449
Internal Retrofit[iv]				8	15	21	30	24	49	60	37	52	42	55	31	135	425	59	32	68	42	1,185
Spray Valves																		656	202	224	97	1,179
Commercial Lighting Program[iv]				129	634	556	488	264	235	384	178	122	152	184	373	742	871	999	1,116	1,292	1,111	9,830
Building Optimization Program																				1	2	3
Commercial Earth Power Program***																		28	15	11	23	77
Parking Lot Controllers***																		253	296	89	137	775
Commercial Refrigeration																		12	27	17	41	97
Agricultural Heat Pads										18	22	7	11	14	10	12	9	5	6	4	10	128
City of Winnipeg Agreement[iv]														4	5	11	274	9	7	1	4	315
Power Smart Energy Manager Program																				0	0	0
Commercial Kitchen Appliances																				21	27	48
Commercial Clothes Washers																				9	160	169
New Buildings Program																				0	0	0
Commercial Network Energy Manager Program																				0	6	6
Power Smart Shops																				0	330	330
Commercial Incentive-Based Programs SUBTOTAL	0	0	0	137	649	577	518	288	284	462	237	181	205	257	419	900	1,579	2,296	1,995	2,113	2,481	15,578
Commercial Incentive-Based Discontinued/Completed Programs																						
Sentinel Lighting Conversion			65	63	70																	199
Roadway Lighting				73	71	55																199
Commercial Construction & Renovation[iv/***]								46	41	40	54	42	56	76	88	102	232					777
Livestock Waterer					129	96	57															282
Agricultural Demand Controller					24	10																34
Infrared Heat Lamps					1,016																	1,016
Commercial Incentive-Based Discontinued/Completed Programs SUBTOTAL	0	0	65	136	1,310	161	57	46	41	40	54	42	56	76	88	102	232	0	0	0	0	2,507
Commercial Incentive-Based TOTAL	0	0	65	273	1,959	738	575	334	325	502	291	223	261	333	507	1,002	1,811	2,296	1,995	2,113	2,481	18,085
Commercial TOTAL	0	0	65	273	1,959	738	575	334	325	502	291	241	305	364	538	1,020	1,849	2,364	2,041	2,136	2,491	18,412
Industrial																						
Industrial Incentive-Based Programs																						
Performance Optimization Program[iv]					3	1	4	4	4	8	2	7	15	22	28	44	46	44	66	84	97	479
Natural Gas Optimization Program																			10	10	14	34
Industrial Incentive-Based Programs SUBTOTAL	0	0	0	0	3	1	4	4	4	8	2	7	15	22	28	44	46	44	76	94	111	513
Industrial Incentive-Based Discontinued/Completed Programs																						
High Efficiency Motor[iv]			24	157	199	228	181	178	191													1,158
Industrial Incentive-Based Discontinued/Completed Programs SUBTOTAL	0	0	24	157	199	228	181	178	191	0	0	0	0	0	0	0	0	0	0	0	0	1,158
Customer Self Generation Programs																						
Bioenergy Optimization Program																		1	1	1	1	1
Customer Self Generation Programs TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
Rate/Load Management Programs																						
Curtailable Rates[v]											2	2	2	3	4	4	4	4	4	4	4	5
Rate/Load Management Programs TOTAL	0	0	0	0	0	0	0	0	0	0	2	2	2	3	4	4	4	4	4	4	4	5
Industrial TOTAL	0	0	24	157	202	229	185	182	195	8	4	9	17	25	32	48	50	49	81	99	116	1,677
CSI PROGRAMS ACTIVE & DISCONTINUED/COMPLETED SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	18	6,305	7,064	9,928	12,668	15,465	14,232	11,993	13,555	14,399	105,627
INCENTIVE PROGRAMS ACTIVE & DISCONTINUED/COMPLETED SUBTOTAL	6,169	8,954	8,697	5,242	6,321	967	760	717	1,229	1,191	295	232	278	358	539	23,208	33,157	59,346	70,723	108,600	117,195	454,144
ALL PROGRAMS ACTIVE & DISCONTINUED/COMPLETED TOTAL	**6,169**	**8,954**	**8,697**	**5,242**	**6,321**	**967**	**760**	**717**	**1,229**	**1,191**	**295**	**250**	**6,583**	**7,422**	**10,467**	**35,876**	**48,622**	**73,578**	**82,716**	**122,155**	**131,594**	**559,771**

* Participant numbers include free riders but exclude free drivers and market transformation.

† Customers may participate in more than one Power Smart Program.

[i] The program offering in-home energy assessments prior to 2007/08 was known as the EnerGuide for Houses program

[ii] Starting in 2004/05 the R2000 Program was grouped into the Power Smart New Home Program

[iii] Power Smart Energy Manager Program participation is measured by schools. Schools that joined the program in 2000/01 participated for 4 years and schools that joined in 2002/03 participated for 2 years.

[iv] Participation is measured by completed projects.

[v] Annual participation represents the number of customers who participate each year. Since most customers participate year after year, the cumulative number represents the actual number of customers who have participated to date.

[vi] Formerly known as the Home Energy Saver Workshop

** A summation of annual participation columns will not necessarily correspond with the total participation to date. This is a result of the Curtailable Rates Program participation (see footnote v).

Note: Participation in the CFL Program is defined as 1 household.

APPENDIX D

Synopsis of Discontinued Power Smart Incentive-Based Programs

Residential Programs

Energy Efficient Water Tank Measures Component of the "No Worry Plan"

Encouraged residential customers with electric hot water heaters to purchase, finance or lease the highest available energy efficient heater when replacing their electric heaters or installing new ones.

Energy Efficient Water Saving Measures Component of the "No Worry Plan"

Encouraged customers of the "No Worry Plan" Hot Water Tank Program to install energy saving devices (faucet aerators, heat traps, energy efficient shower heads, pipe wrap) as part of a bonus package when installing their new water tanks.

Outdoor Timer

Encouraged the use of outdoor timers to control block heaters and interior car warmers at existing homes.

Programmable Thermostat Program

This program encourages residential customers to replace non-programmable thermostats with ENERGY STAR programmable models.

Refrigerator/Freezer Buy-Back Pilot Project

Encouraged the removal of older, inefficient second refrigerators and freezers in existing homes.

Residential Showerhead Pilot

Encouraged the installation of energy efficient showerheads in existing homes.

Seasonal LED Program

Encouraged residential customers to replace existing seasonal light strings on their home with energy efficient light strings.

Energy Efficient Appliances

The Appliance program provides financial incentives to residential customers when purchasing ENERGY STAR® qualified clothes washers and chest freezers.

Commercial Programs

Agricultural Demand Controller

Encouraged large agricultural operations to install demand controllers to reduce peak demand consumption.

Commercial Showerhead Pilot

Encouraged commercial operations to retrofit shower facilities with energy efficient showerheads.

Infrared Heat Lamps

Encouraged swine farrowing operations to use energy efficient heat lamps in place of standard heat lamps to reduce energy and demand consumption.

Livestock Waterer

Encouraged dairy and cattle operations to install energy efficient waterers to reduce demand and energy consumption.

Roadway Lighting

Converted existing incandescent and mercury vapour street lighting to efficient high pressure sodium.

Sentinel Lighting Conversion

Encouraged the conversion of yard lighting and sentinel lighting from mercury vapour and incandescent lighting to efficient high pressure sodium.

Industrial Programs

High Efficiency Motors

Encouraged the installation of high efficiency motors in industrial and commercial operations.

APPENDIX E

Curtailable Rates Program Information & Methodology

- The Curtailable Rates Program provides incentives to large industrial customers who curtail their electrical load when called upon by Manitoba Hydro. Incentives are provided by way of a credit on the customer's monthly energy bill.

- 2009/10 reported demand savings for the Curtailable Rates Program are based on a methodology where curtailments throughout the year are analyzed to determine the amount of curtailable load that can be expected to be on the system at the time a curtailment is called. This methodology has been in place since 2000/01. For previous methodology details, refer to the appropriate Power Smart Annual Review.

- Curtailable Rates Program targets are from the current approved *2009 Power Smart Plan* report.

- Curtailable Rate Program targets and savings are adjusted for efficiency. This adjustment is made to equate load available for curtailment to that of an actual generator. Curtailments are not as efficient since there is potential risk customers may not curtail at all or may not curtail in time for Manitoba Hydro's system peak. The efficiency factor is based on the curtailment option selected by the customer.

- Savings resulting from the Curtailable Rates Program are available as long as the service offering continues, whether or not actual curtailments are made at the time of system peak or at any other time. Curtailments may be made: to re-establish contingency reserves; to maintain planning reserve obligations; to protect firm load when reserves are insufficient to avoid curtailing firm load; and to meet Manitoba Hydro's non-spinning reserves to the extent necessary. The expected availability of this load and not the timing of its dispatch determine the future benefits of demand savings for this program.

- Under the 2009/10 Power Smart Annual Review, the Curtailable Rates Program has been treated as an incentive-based program. This is consistent with treatment in the current approved *2009 Power Smart Plan* report. As a rate/load management program, certain economic indicators such as TRC and RIM are not reported.

APPENDIX F

GW.h Energy Savings - Incentive Based Programs

2009/10 Annual Energy Savings - GW.h
Electric Incentive Based Programs

	2009/10	2010/11	2011/12	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	At Generation 2009/10	At Generation 2024/25
RESIDENTIAL																		
Compact Fluorescent Lighting	35.9	35.9	35.9	35.9	35.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.9	0.0
Home Insulation	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.2	7.2
High Efficiency Furnace & Boiler	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4
Low Income	0.9	0.9	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	1.0	0.6
New Homes	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7
Energy Efficient Light Fixtures	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6	0.1
Water & Energy Saver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	45.5	45.5	45.5	45.5	45.5	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	8.9	8.9	51.8	10.1
DISCONTINUED/COMPLETED																		
Appliances	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8
Seasonal LED Lighting	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Outdoor Timer	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Res Hot Water	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Heater Rental	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermostat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retrofit/Demonstration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RBB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0
RESIDENTIAL TOTAL	46.3	46.3	46.3	46.3	46.3	10.3	10.3	10.3	9.9	9.9	9.9	9.9	9.9	9.9	9.7	9.7	52.8	11.1
COMMERCIAL																		
Commercial Lighting	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	23.5	23.5
Commercial Geothermal	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.9	3.9
Commercial Insulation*	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8	2.8
Parking Lot Controllers	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.0	2.8	0.0
Commercial Windows*	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.3
Internal Retrofit	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.9
Custom	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.7	1.7
Commercial Refigeration	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4
Agricultural Heat Pads	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	1.3	0.0
HVAC - Chillers	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6
City of Winnipeg Agreement	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.6	0.3
Spray Valves	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
Commercial Clothes Washers	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.4	0.0
Commercial Kitchen Appliances	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.0
Power Smart Shops	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
Commercial Building Optimization	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Network Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
New Construction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	38.9	38.9	38.9	38.9	38.9	38.8	38.8	38.8	38.8	38.8	38.0	38.0	37.2	37.2	37.2	33.6	44.3	38.3
DISCONTINUED/COMPLETED																		
Commercial Showerhead 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Infrared Heat Lamp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Livestock Waterer	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roadway Lighting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sentinel Lighting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commerical Air Barrier	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Demand Controller	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commerical Air Conditioning	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aboriginal Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COMMERCIAL TOTAL	38.9	38.9	38.9	38.9	38.9	38.8	38.8	38.8	38.8	38.8	38.0	38.0	37.2	37.2	37.2	33.6	44.3	38.3
INDUSTRIAL																		
Performance Optimization	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	4.1	27.2	4.5
Emergency Preparedness	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	4.1	27.2	4.5
DISCONTINUED/COMPLETED																		
Industrial (Basic)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retrofit/Demonstration GSL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
High Efficiency Motors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Efficient Motors (QMR)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDUSTRIAL TOTAL	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0
EFFICIENCY PROGRAMS SUBTOTAL	109.9	109.9	109.9	109.9	109.9	73.9	73.9	73.8	73.4	73.4	72.6	72.6	71.8	71.8	71.6	47.4	124.3	53.9
CUSTOMER SELF-GENERATION PROGRAMS																		
BioEnergy Optimization Program	80.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.1	0.0
	80.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.1	0.0
RATE/LOAD MANAGEMENT PROGRAMS																		
Curtailable Rates	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GW.h IMPACTS (at meter)	190.0	109.9	109.9	109.9	109.9	73.9	73.9	73.8	73.4	73.4	72.6	72.6	71.8	71.8	71.6	47.4	N/A	N/A
GW.h IMPACTS (at generation)	212.4	124.3	124.3	124.3	124.3	83.2	83.2	83.2	82.7	82.7	81.8	81.8	80.9	80.9	80.7	53.9	212.4	53.9

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

Persisting Energy Savings - GW.h
Electric Incentive Based Programs

	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	At Generation 2009/10	At Generation 2024/25
RESIDENTIAL																							
Compact Fluorescent Lighting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	15.4	20.6	28.1	49.9	41.9	47.7	0.0
Home Insulation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.2	10.7	16.5	22.1	22.1	25.2	25.2
Energy Efficient Light Fixtures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.9	2.9	3.7	3.4	3.9	4.2
New Homes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	2.1	2.6	3.0	1.2
Low Income	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1	1.4	1.6	1.1
Water & Energy Saver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	1.3
High Efficiency Furnace & Boiler	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	20.3	33.4	49.0	78.9	72.1	82.2	33.0
DISCONTINUED/COMPLETED																							
Appliances	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.6	12.1	12.1	13.8	0.5
Seasonal LED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	2.3	3.1	3.1	3.5	3.5
Outdoor Timer	5.0	8.9	15.3	20.6	24.8	29.2	30.9	34.7	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	41.6	41.6
Res Hot Water	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6
Water Heater Rental	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Thermostat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.4	0.4	0.4
Retrofit/Demonstration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RBB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	5.0	8.9	15.7	21.0	25.1	29.6	31.3	35.1	37.2	37.5	37.6	37.6	37.6	37.6	37.6	37.6	37.7	42.7	47.8	53.1	53.1	60.5	47.1
RESIDENTIAL TOTAL	5.0	8.9	15.7	21.0	25.1	29.6	31.3	35.1	37.2	37.5	37.6	37.6	37.6	37.6	37.6	47.5	57.9	76.1	96.9	132.0	125.1	142.7	80.1
COMMERCIAL																							
Commercial Lighting	0.0	0.0	0.0	2.9	17.0	35.9	55.0	61.2	67.4	85.4	90.8	94.9	100.2	105.6	116.2	132.6	153.1	175.8	193.9	218.9	218.9	249.5	249.3
Commercial Insulation*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.7	4.1	4.4	5.9	6.8	8.8	11.5	20.0	27.9	30.5	32.4	31.5	35.9	28.0
Commercial Windows*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	5.5	6.7	9.2	11.6	12.9	15.4	16.4	17.0	21.8	24.3	22.9	26.1	16.6
Agricultural Heat Pads	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	1.8	2.9	3.2	4.0	5.1	7.8	8.8	11.1	15.3	18.6	20.2	21.2	24.1	26.9
Parking Lot Controllers	0.0	0.0	0.0	0.2	1.2	2.7	3.3	3.8	4.3	4.9	5.4	5.9	6.1	6.9	9.4	12.2	14.4	17.0	18.0	19.8	19.4	22.1	21.5
Spray Valves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	2.6	10.0	10.8	11.7	12.2	12.8	12.8	12.9	13.1	15.4	15.9	15.7	17.9	16.8
Internal Retrofit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.2	7.6	9.6	10.1	10.3	9.4	10.7	7.0
Commercial Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.6	0.7	0.9	1.0	1.4	1.8	2.3	3.2	3.9	4.5	5.2	6.0	6.9	6.5
Commercial Refigeration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.9	4.1	5.4	6.2	7.5
HVAC - Chillers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.0	4.3	5.0	5.7	3.7
Custom	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.7	4.1	4.3	4.8	4.9	5.5	5.8
Commercial Building Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.9	4.8	4.8	5.5	0.0
City of Winnipeg Agreement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.4	0.0
Commercial Kitchen Appliances	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0
Commercial Clothes Washers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
New Construction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Network Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Shops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	3.1	18.2	38.6	58.3	66.6	75.2	102.4	119.3	126.7	138.2	149.5	170.2	199.1	242.3	287.6	324.8	365.8	365.8	417.0	389.4
DISCONTINUED/COMPLETED																							
Commercial Showerhead 2	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6
Infrared Heat Lamp	0.0	0.0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.2	4.2
Livestock Waterer	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
Roadway Lighting	0.0	0.0	3.9	13.5	23.2	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	34.0	34.0
Sentinel Lighting	0.0	0.0	2.3	4.7	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.5	8.5
Commerical Air Barrier	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9
Agricultural Demand Controller	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commerical Air Conditioning	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
Aboriginal Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	11.3	23.4	35.8	42.7	42.8	43.1	43.1	43.1	43.2	43.3	43.5	43.7	43.8	43.9	44.0	44.0	44.0	44.0	44.0	50.2	49.8
COMMERCIAL TOTAL	0.0	0.0	11.3	26.5	54.0	81.3	101.1	109.6	118.3	145.5	162.5	170.0	181.7	193.2	214.0	243.1	286.3	331.5	368.9	409.8	409.8	467.2	439.1
INDUSTRIAL																							
Performance Optimization	0.0	0.0	0.0	0.0	0.0	2.4	7.2	35.1	43.5	85.9	107.7	110.8	142.9	170.5	181.5	207.6	238.6	249.3	276.4	294.9	294.9	324.3	274.2
Emergency Preparedness	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	2.4	7.2	35.1	43.5	85.9	107.7	110.8	142.9	170.5	181.5	207.6	238.6	249.3	276.4	294.9	294.9	324.3	274.2
DISCONTINUED/COMPLETED																							
Industrial (Basic)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retrofit/Demonstration GSL	0.0	0.0	0.0	0.1	0.7	9.7	32.7	32.7	32.7	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.0	33.0	33.0	36.3	36.3
High Efficiency Motors	0.0	0.0	0.4	4.8	7.7	10.3	13.3	17.9	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	23.6	23.6
Efficient Motors (QMR)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.4	4.9	8.3	20.0	46.0	50.6	54.2	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	59.9	59.9
INDUSTRIAL TOTAL	0.0	0.0	0.4	4.9	8.3	22.4	53.2	85.7	97.7	140.4	162.2	165.4	197.5	225.1	236.0	262.2	293.1	303.9	330.9	349.3	349.3	384.3	334.1
EFFICIENCY PROGRAMS SUBTOTAL	5.0	8.9	27.4	52.3	87.5	133.3	185.6	230.4	253.2	323.5	362.3	373.0	416.8	455.8	487.6	552.7	637.4	711.5	796.6	891.1	884.3	994.1	853.3
CUSTOMER SELF-GENERATION PROGRAMS																							
BioEnergy Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	120.1	84.2	94.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	120.1	84.2	94.0	0.0	0.0	0.0
RATE/LOAD MANAGEMENT PROGRAMS																							
Curtailable Rates	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GW.h IMPACTS (at meter)	5.0	8.9	27.4	52.3	87.5	133.3	185.6	230.4	253.2	323.5	362.3	373.0	416.8	455.8	487.6	552.7	647.6	831.6	880.8	985.1	884.3	N/A	N/A
GW.h IMPACTS (at generation)	5.7	10.2	31.2	59.4	99.4	151.1	209.4	259.3	284.7	363.1	406.6	418.6	467.2	510.7	546.4	619.6	726.2	931.1	987.5	1105.3	994.1	994.1	853.3

Note: Subotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

Persisting Energy Savings - GW.h
Electric Incentive Based Programs

	2010/11	2011/12	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	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39
RESIDENTIAL																													
Compact Fluorescent Lighting	34.6	29.3	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Home Insulation	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	20.3	17.8	17.8	12.1	6.5
Energy Efficient Light Fixtures	3.4	3.4	3.4	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.1	3.1	2.1	1.3	
New Homes	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Income	1.4	1.4	1.4	1.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	0.4	0.4	0.4	0.4	0.0
Water & Energy Saver	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
High Efficiency Furnace & Boiler	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	64.8	59.6	52.1	30.2	30.2	30.2	30.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.0	29.0	29.0	28.1	28.0	28.0	28.0	28.0	28.0	27.5	24.4	21.3	21.3	14.6	7.7
DISCONTINUED/COMPLETED																													
Appliances	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	8.7	4.8	0.4	0.4	0.4	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Seasonal LED	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Outdoor Timer	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
Res Hot Water	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Heater Rental	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Thermostat	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retrofit/Demonstration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RBB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	53.1	53.1	53.0	53.0	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	49.5	45.7	41.3	41.2	40.0	39.0	38.1	37.9	37.9	37.6	37.5	37.5	37.5	37.5	37.5	37.5	37.5
RESIDENTIAL TOTAL	117.8	112.6	105.1	83.2	83.1	83.1	83.1	82.2	82.1	82.1	82.1	82.1	78.7	74.9	70.2	70.2	68.9	67.1	66.2	65.9	65.9	65.7	65.6	65.0	61.9	58.9	58.9	52.1	45.2
COMMERCIAL																													
Commercial Lighting	218.8	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	197.2	197.2	179.1	154.2	154.2	154.2	154.2	154.2	144.6	128.7	128.7	128.7	128.7	128.7
Commercial Insulation*	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	29.0	27.0	24.5	16.1	16.1	16.1	16.1	18.9	18.9	18.9	18.9	16.9	14.7	14.7	14.7	14.7	14.7
Commercial Windows*	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	18.2	15.7	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	13.2	13.2	12.2	12.2	12.2	12.2
Agricultural Heat Pads	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	23.6	21.2	21.2	17.9	16.3	12.9	12.9	12.9	12.9	10.2	9.2	9.2	5.1	5.1	5.1
Parking Lot Controllers	19.4	19.4	19.4	19.0	18.9	18.8	18.8	18.8	18.9	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	16.3	15.6	13.4	13.4	12.3	10.5
Spray Valves	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.2	12.8	12.8	12.8	12.8	12.2	12.1	12.1	12.1	9.9	9.9
Internal Retrofit	9.4	9.4	9.4	9.4	9.4	9.4	9.2	9.0	8.6	8.3	7.4	7.0	6.9	6.4	6.1	0.6	-0.4	-0.5	-0.5	0.8	0.8	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Commercial Geothermal	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.9	5.7	5.7	5.7	5.4	5.3	5.3	5.3	4.8	3.9	3.2	2.6	1.9	-0.6	-0.6	-0.6	-0.6	-0.6
Commercial Refigeration	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.6	6.6	6.6	6.6	6.6	6.6	6.6	5.9	4.7	2.5	0.0	0.0	0.0	0.0	0.0
HVAC - Chillers	5.0	5.0	5.0	5.0	5.0	6.3	5.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.8
Custom	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.8	4.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	2.9	1.7	1.7	1.5	0.9
Commercial Building Optimization	4.8	4.8	4.8	4.8	4.8	4.8	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
City of Winnipeg Agreement	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-0.2	-0.3	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Kitchen Appliances	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Clothes Washers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Construction	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Network Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Shops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	365.7	365.5	365.5	365.2	365.0	366.2	362.9	359.9	357.1	356.8	355.7	354.4	346.9	341.8	341.6	302.3	301.2	279.6	252.6	251.5	250.6	248.7	246.9	225.2	197.9	193.4	189.2	185.7	182.1
DISCONTINUED/COMPLETED																													
Commercial Showerhead 2	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Infrared Heat Lamp	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
Livestock Waterer	0.4	0.4	0.4	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roadway Lighting	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
Sentinel Lighting	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Commerical Air Barrier	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.6
Agricultural Demand Controller	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commerical Air Conditioning	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Aboriginal Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	44.0	44.0	44.0	44.0	43.9	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.5	43.4	43.4	43.4	43.3	43.3
COMMERCIAL TOTAL	409.7	409.6	409.5	409.2	408.9	409.9	406.5	403.5	400.8	400.5	399.3	398.1	390.5	385.5	385.2	345.9	344.8	323.2	296.2	295.1	294.2	292.4	290.5	268.8	241.3	236.8	232.6	229.0	225.5
INDUSTRIAL																													
Performance Optimization	294.9	294.9	294.9	294.9	294.9	294.9	293.9	293.9	292.9	292.9	292.9	293.1	266.1	249.3	249.3	234.1	233.9	233.9	233.2	233.2	233.2	233.2	233.2	221.3	195.1	179.3	179.3	179.3	179.3
Emergency Preparedness	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	294.9	294.9	294.9	294.9	294.9	294.9	293.9	293.9	292.9	292.9	292.9	293.1	266.1	249.3	249.3	234.1	233.9	233.9	233.2	233.2	233.2	233.2	233.2	221.3	195.1	179.3	179.3	179.3	179.3
DISCONTINUED/COMPLETED																													
Industrial (Basic)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retrofit/Demonstration GSL	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
High Efficiency Motors	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
Efficient Motors (QMR)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
INDUSTRIAL TOTAL	349.3	349.3	349.3	349.3	349.3	349.3	348.4	348.4	347.4	347.4	347.4	347.6	320.6	303.7	303.7	288.6	288.4	288.4	287.7	287.7	287.7	287.7	287.7	275.7	249.6	233.8	233.8	233.8	233.8
EFFICIENCY PROGRAMS SUBTOTAL	876.9	871.5	864.0	841.7	841.4	842.4	838.0	834.1	830.3	830.0	828.8	827.8	789.8	764.1	759.2	704.7	702.1	678.7	650.1	648.8	647.8	645.7	643.7	609.5	552.8	529.4	525.2	514.9	504.4
CUSTOMER SELF-GENERATION PROGRAMS																													
BioEnergy Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATE/LOAD MANAGEMENT PROGRAMS																													
Curtailable Rates	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GW.h IMPACTS (at meter)	876.9	871.5	864.0	841.7	841.4	842.4	838.0	834.1	830.3	830.0	828.8	827.8	789.8	764.1	759.2	704.7	702.1	678.7	650.1	648.8	647.8	645.7	643.7	609.5	552.8	529.4	525.2	514.9	504.4
GW.h IMPACTS (at generation)	985.7	979.6	971.0	945.5	945.2	946.3	941.4	936.9	932.6	932.3	931.0	929.8	887.5	858.9	853.3	791.8	788.9	762.2	729.6	728.1	727.0	724.6	722.3	683.8	620.2	594.2	589.4	577.6	565.7

Note: Subotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

Total Annual Energy Savings - GW.h
Electric Incentive Based Programs

	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	At Generation 2009/10	At Generation 2024/25
RESIDENTIAL																							
Compact Fluorescent Lighting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	15.4	20.6	28.1	49.9	77.7	88.6	0.0
Home Insulation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.2	10.7	16.5	22.1	28.4	32.4	32.4
New Homes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.9	2.9	3.7	4.3	4.9	4.9
Energy Efficient Light Fixtures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	2.1	2.6	3.0	1.2
Low Income	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1	2.0	2.2	1.8
High Efficiency Furnace & Boiler	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.4	1.4
Water & Energy Saver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	20.3	33.4	49.0	78.9	116.3	132.5	41.7
DISCONTINUED/COMPLETED																							
Appliances	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.6	12.1	12.7	14.5	1.2
Seasonal LED Program	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	2.3	3.1	3.2	3.7	3.7
Outdoor Timer	5.0	8.9	15.3	20.6	24.8	29.2	30.9	34.7	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	41.6	41.6
Res Hot Water	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6
Water Heater Rental	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Thermostat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.4	0.4	0.4
Retrofit/Demonstration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RBB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	5.0	8.9	15.7	21.0	25.1	29.6	31.3	35.1	37.2	37.5	37.6	37.6	37.6	37.6	37.6	37.6	37.7	42.7	47.8	53.1	53.9	61.5	48.0
RESIDENTIAL TOTAL	5.0	8.9	15.7	21.0	25.1	29.6	31.3	35.1	37.2	37.5	37.6	37.6	37.6	37.6	37.6	47.5	57.9	76.1	96.9	132.0	170.2	194.0	89.7
COMMERCIAL																							
Commercial Lighting	0.0	0.0	0.0	2.9	17.0	35.9	55.0	61.2	67.4	85.4	90.8	94.9	100.2	105.6	116.2	132.6	153.1	175.8	193.9	218.9	239.5	273.0	272.7
Parking Lot Controllers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.7	4.1	4.4	5.9	6.8	8.8	11.5	20.0	27.9	30.5	32.4	34.9	39.8	31.8
Agricultural Heat Pads	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	5.5	6.7	9.2	11.6	12.9	15.4	16.4	17.0	21.8	24.3	25.4	29.0	19.4
Commercial Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	1.8	2.9	3.2	4.0	5.1	7.8	8.8	11.1	15.3	18.6	20.2	23.6	26.9	26.9
Internal Retrofit	0.0	0.0	0.0	0.2	1.2	2.7	3.3	3.8	4.3	4.9	5.4	5.9	6.1	6.9	9.4	12.2	14.4	17.0	18.0	19.8	21.5	24.5	23.8
Custom	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	2.6	10.0	10.8	11.7	12.2	12.8	12.8	12.9	13.1	15.4	15.9	17.4	19.8	18.7
City of Winnipeg Agreement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.2	7.6	9.6	10.1	10.3	10.8	12.3	8.6
Commercial Windows*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.6	0.7	0.9	1.0	1.4	1.8	2.3	3.2	3.9	4.5	5.2	7.3	8.3	7.9
Commercial Insulation*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.9	4.1	6.6	7.5	7.5
Commercial Refigeration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.0	4.3	5.5	6.3	4.2
HVAC - Chillers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.7	4.1	4.3	4.8	5.3	6.1	6.1
Spray Valves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.9	4.8	5.2	5.9	0.0
Commercial Building Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.7	0.0
Commercial Kitchen Appliances	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5	0.0
Commercial Clothes Washers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.0
Power Smart Shops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0
Network Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
New Buildings	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	3.1	18.2	38.6	58.3	66.6	75.2	102.4	119.3	126.7	138.2	149.5	170.2	199.1	242.3	287.6	324.8	365.8	404.6	461.3	427.7
DISCONTINUED/COMPLETED																							
Commercial Showerhead 2	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6
Infrared Heat Lamp	0.0	0.0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.2	4.2
Livestock Waterer	0.0	0.0	0.0	0.0	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
Roadway Lighting	0.0	0.0	3.9	13.5	23.2	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	34.0	34.0
Sentinel Lighting	0.0	0.0	2.3	4.7	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.5	8.5
Commerical Air Barrier	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9
Agricultural Demand Controller	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commerical Air Conditioning	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
Aboriginal Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	11.3	23.4	35.8	42.7	42.8	43.1	43.1	43.1	43.2	43.3	43.5	43.7	43.8	43.9	44.0	44.0	44.0	44.0	44.0	50.2	49.8
COMMERCIAL TOTAL	0.0	0.0	11.3	26.5	54.0	81.3	101.1	109.6	118.3	145.5	162.5	170.0	181.7	193.2	214.0	243.1	286.3	331.5	368.9	409.8	448.7	511.5	477.5
INDUSTRIAL																							
Performance Optimization	0.0	0.0	0.0	0.0	0.0	2.4	7.2	35.1	43.5	85.9	107.7	110.8	142.9	170.5	181.5	207.6	238.6	249.3	276.4	294.9	319.6	351.6	278.7
Emergency Preparedness	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	2.4	7.2	35.1	43.5	85.9	107.7	110.8	142.9	170.5	181.5	207.6	238.6	249.3	276.4	294.9	319.6	351.6	278.7
DISCONTINUED/COMPLETED																							
Industrial (Basic)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retrofit/Demonstration GSL	0.0	0.0	0.0	0.1	0.7	9.7	32.7	32.7	32.7	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.0	33.0	33.0	36.3	36.3
High Efficiency Motors	0.0	0.0	0.4	4.8	7.7	10.3	13.3	17.9	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	23.6	23.6
Efficient Motors (QMR)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.4	4.9	8.3	20.0	46.0	50.6	54.2	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	59.9	59.9
INDUSTRIAL TOTAL	0.0	0.0	0.4	4.9	8.3	22.4	53.2	85.7	97.7	140.4	162.2	165.4	197.5	225.1	236.0	262.2	293.1	303.9	330.9	349.3	374.1	411.5	338.6
EFFICIENCY PROGRAMS SUBTOTAL	5.0	8.9	27.4	52.3	87.5	133.3	185.6	230.4	253.2	323.5	362.3	373.0	416.8	455.8	487.6	552.7	637.4	711.5	796.6	891.1	992.9	1117.0	905.7
CUSTOMER SELF-GENERATION PROGRAMS																							
BioEnergy Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	120.1	84.2	94.0	80.1	88.1	0.0
Subtotal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	120.1	84.2	94.0	80.1	88.1	0.0
RATE/LOAD MANAGEMENT PROGRAMS																							
Curtailable Rates	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GW.h IMPACTS (at meter)	5.0	8.9	27.4	52.3	87.5	133.3	185.6	230.4	253.2	323.5	362.3	373.0	416.8	455.8	487.6	552.7	647.6	831.6	880.8	985.1	1073.0	N/A	N/A
GW.h IMPACTS (at generation)	5.7	10.2	31.2	59.4	99.4	151.1	209.4	259.3	284.7	363.1	406.6	418.6	467.2	510.7	546.4	619.6	726.2	931.1	987.5	1105.3	1205.1	1205.1	905.7

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

Total Annual Energy Savings - GW.h
Electric Incentive Based Programs

	2010/11	2011/12	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	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39
RESIDENTIAL																													
Compact Fluorescent Lighting	70.4	65.2	57.7	35.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Home Insulation	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	26.7	24.2	24.2	18.4	12.8
New Homes	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2	3.6	3.6	2.6	1.8
Energy Efficient Light Fixtures	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Income	2.0	2.0	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.0	1.0	1.0	1.0	1.0	0.6
High Efficiency Furnace & Boiler	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
Water & Energy Saver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	109.0	103.7	96.3	74.4	38.4	38.4	38.4	37.0	37.0	37.0	37.0	37.0	36.9	36.8	36.6	36.6	36.6	35.7	35.6	35.5	35.5	35.5	35.5	35.0	31.9	28.8	28.8	22.1	15.2
DISCONTINUED/COMPLETED																													
Appliances	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	9.3	5.5	1.1	0.4	0.4	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Seasonal LED Program	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	1.9	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Outdoor Timer	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
Res Hot Water	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Heater Rental	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Thermostat	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retrofit/Demonstration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RBB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	53.9	53.9	53.9	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	50.4	46.5	42.1	41.4	40.1	39.2	38.3	37.9	37.9	37.6	37.5	37.5	37.5	37.5	37.5	37.5	37.5
RESIDENTIAL TOTAL	162.9	157.7	150.1	128.2	92.2	92.2	92.2	90.8	90.7	90.7	90.7	90.7	87.3	83.3	78.7	77.9	76.7	74.9	73.9	73.4	73.4	73.2	73.0	72.5	69.4	66.3	66.3	59.5	52.7
COMMERCIAL																													
Commercial Lighting	239.4	239.2	239.2	239.2	239.2	239.2	239.2	239.2	239.2	239.2	239.2	239.2	239.2	239.2	239.2	217.7	217.7	199.6	174.8	154.2	154.2	154.2	154.2	144.6	128.7	128.7	128.7	128.7	128.7
Parking Lot Controllers	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	32.4	30.4	27.9	19.5	19.5	19.5	19.5	18.9	18.9	18.9	18.9	16.9	14.7	14.7	14.7	14.7	14.7
Agricultural Heat Pads	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	20.7	18.1	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	15.7	13.2	12.2	12.2	12.2	12.2
Commercial Geothermal	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	21.2	21.2	17.9	16.3	12.9	12.9	12.9	12.9	10.2	9.2	9.2	5.1	5.1	5.1
Internal Retrofit	21.5	21.5	21.5	21.1	21.0	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	18.4	15.6	13.4	13.4	12.3	10.5
Custom	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	15.9	14.4	14.4	14.4	14.4	13.8	13.8	13.8	13.8	11.5	11.5
City of Winnipeg Agreement	10.8	10.8	10.8	10.8	10.8	10.8	10.7	10.5	10.0	9.8	8.8	8.4	8.4	7.8	7.6	2.1	1.1	0.9	0.9	0.8	0.8	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Commercial Windows*	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.1	6.9	6.9	6.9	6.7	6.6	6.6	6.6	6.6	6.1	5.2	4.4	3.9	3.2	0.7	0.7	0.7	0.7
Commercial Insulation*	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	5.9	4.7	2.5	0.0	0.0	0.0	0.0	0.0
Commercial Refigeration	5.5	5.5	5.5	5.5	5.5	6.7	5.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.3
HVAC - Chillers	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	2.9	1.7	1.7	1.5	0.9	
Spray Valves	5.2	5.2	5.2	5.2	5.2	5.2	3.3	2.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Building Optimization	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Kitchen Appliances	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Clothes Washers	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Shops	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Network Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Buildings	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	404.5	404.4	404.4	404.0	403.9	405.0	401.7	398.7	395.9	394.8	393.7	391.6	384.1	379.0	375.2	335.9	334.8	313.2	286.2	259.6	258.7	256.9	255.0	233.4	201.3	196.8	192.6	189.1	185.5
DISCONTINUED/COMPLETED																													
Commercial Showerhead 2	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Infrared Heat Lamp	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
Livestock Waterer	0.4	0.4	0.4	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roadway Lighting	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
Sentinel Lighting	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Commerical Air Barrier	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6
Agricultural Demand Controller	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commerical Air Conditioning	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Aboriginal Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	44.0	44.0	44.0	44.0	43.9	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.5	43.4	43.4	43.4	43.3	43.3
COMMERCIAL TOTAL	448.6	448.4	448.4	448.0	447.7	448.7	445.3	442.3	439.6	438.5	437.3	435.2	427.7	422.7	418.8	379.6	378.5	356.9	329.9	303.3	302.4	300.5	298.6	277.0	244.7	240.2	236.0	232.5	228.9
INDUSTRIAL																													
Performance Optimization	319.6	319.6	319.6	319.6	319.6	319.6	318.6	318.6	317.7	317.7	317.7	317.9	290.8	274.0	253.3	238.2	238.0	238.0	237.3	234.7	234.7	234.7	234.7	222.7	195.1	179.3	179.3	179.3	179.3
Emergency Preparedness	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	319.6	319.6	319.6	319.6	319.6	319.6	318.6	318.6	317.7	317.7	317.7	317.9	290.8	274.0	253.3	238.2	238.0	238.0	237.3	234.7	234.7	234.7	234.7	222.7	195.1	179.3	179.3	179.3	179.3
DISCONTINUED/COMPLETED																													
Industrial (Basic)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retrofit/Demonstration GSL	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
High Efficiency Motors	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
Efficient Motors (QMR)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
INDUSTRIAL TOTAL	374.1	374.1	374.1	374.1	374.1	374.1	373.1	373.1	372.1	372.1	372.1	372.3	345.3	328.5	307.8	292.6	292.4	292.4	291.8	289.1	289.1	289.1	289.1	277.2	249.6	233.8	233.8	233.8	233.8
EFFICIENCY PROGRAMS SUBTOTAL	985.5	980.2	972.6	950.3	914.0	914.9	910.6	906.2	902.5	901.4	900.2	898.3	860.3	834.5	805.3	750.1	747.6	724.2	695.5	665.8	664.9	662.8	660.8	626.6	563.7	540.3	536.1	525.8	515.3
CUSTOMER SELF-GENERATION PROGRAMS																													
BioEnergy Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATE/LOAD MANAGEMENT PROGRAMS																													
Curtailable Rates	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GW.h IMPACTS (at meter)	985.5	980.2	972.6	950.3	914.0	914.9	910.6	906.2	902.5	901.4	900.2	898.3	860.3	834.5	805.3	750.1	747.6	724.2	695.5	665.8	664.9	662.8	660.8	626.6	563.7	540.3	536.1	525.8	515.3
GW.h IMPACTS (at generation)	1108.5	1102.4	1093.8	1068.4	1027.0	1028.1	1023.2	1018.2	1013.9	1012.7	1011.3	1009.2	966.9	938.1	905.7	843.5	840.5	813.9	781.3	747.5	746.4	744.1	741.8	703.3	632.6	606.6	601.8	590.0	578.1

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

APPENDIX G

Average Winter MW Savings – Incentive Based Programs

2009/10 Average Winter MW
Electric Incentive Based Programs

	2009/10	2010/11	2011/12	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	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	At Generation 2009/10	At Generation 2024/25
RESIDENTIAL																																
Compact Fluorescent Lighting	9.2	9.2	9.2	9.2	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	0.0
Home Insulation	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.5	3.5
High Efficiency Furnace & Boiler	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.5	0.5
Lower Income	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3
New Homes	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Energy Efficient Light Fixtures	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Water & Energy Saver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13.4	13.4	13.4	13.4	13.4	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.6	3.6	3.6	3.6	3.6	15.2	4.6
DISCONTINUED/COMPLETED																																
Retrofit/Demonstration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Heater Rental	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermostat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Res Hot Water	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Outdoor Timer	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Seasonal LED Lighting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RBB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Appliances	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
RESIDENTIAL TOTAL	13.5	13.5	13.5	13.5	13.5	4.3	4.3	4.3	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.6	3.6	3.6	3.6	3.6	15.4	4.7
COMMERCIAL																																
Commercial Lighting	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3
Commercial Insulation*	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	1.5	1.5
Commercial Geothermal	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
Commercial Windows*	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	1.0	1.0
Internal Retrofit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Commercial Refigeration	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Commercial Clothes Washers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
City of Winnipeg Agreement	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.1
Agricultural Heat Pads	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Commercial Kitchen Appliances	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Power Smart Shops	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Spray Valves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Network Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parking Lot Controllers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HVAC - Chillers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Custom	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Building Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Construction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.2	8.2	7.8	7.8	7.8	7.7	7.7	7.7	7.7	7.7	2.9	2.9	2.9	2.9	2.9	0.6	0.6	0.6	0.6	0.6	9.5	8.8
DISCONTINUED/COMPLETED																																
Commercial Showerhead 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Infrared Heat Lamp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Livestock Waterer	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roadway Lighting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sentinel Lighting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commerical Air Barrier	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Demand Controller	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commerical Air Conditioning	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aboriginal Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COMMERCIAL TOTAL	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.2	8.2	7.8	7.8	7.8	7.7	7.7	7.7	7.7	7.7	2.9	2.9	2.9	2.9	2.9	0.6	0.6	0.6	0.6	0.6	9.5	8.8
INDUSTRIAL																																
Performance Optimization	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0.5	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	3.6	0.6
Emergency Preparedness	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0.5	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	3.6	0.6
DISCONTINUED/COMPLETED																																
Industrial (Basic)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retrofit/Demonstration GSL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
High Efficiency Motors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Efficient Motors (QMR)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDUSTRIAL TOTAL	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0.5	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	3.6	0.6
EFFICIENCY PROGRAMS SUBTOTAL	25.1	25.1	25.1	25.1	25.1	15.9	15.9	15.9	15.8	15.8	15.7	15.7	15.3	15.3	15.3	12.4	12.3	12.3	12.3	12.3	7.0	7.0	7.0	7.0	7.0	4.2	4.2	4.2	4.2	4.2	28.5	14.1
CUSTOMER SELF-GENERATION PROGRAMS																																
BioEnergy Optimization	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	0.0
	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	0.0
RATE/LOAD MANAGEMENT PROGRAMS																																
Curtailable Rates	149.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	164.1	0.0
	149.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	164.1	0.0
MW IMPACTS (at meter)	188.6	25.1	25.1	25.1	25.1	15.9	15.9	15.9	15.8	15.8	15.7	15.7	15.3	15.3	15.3	12.4	12.3	12.3	12.3	12.3	7.0	7.0	7.0	7.0	7.0	4.2	4.2	4.2	4.2	4.2	N/A	N/A
MW IMPACTS (at generation)	208.3	28.5	28.5	28.5	28.5	18.0	18.0	18.0	17.9	17.9	17.8	17.8	17.3	17.3	17.3	14.1	14.0	14.0	14.0	14.0	8.0	8.0	8.0	8.0	8.0	4.7	4.7	4.7	4.7	4.7	208.3	14.1

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

Persisting Average Winter MW
Electric Incentive Based Programs

	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	At Generation 2009/10	At Generation 2024/25
RESIDENTIAL																							
Compact Fluorescent Lighting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1	4.2	5.7	10.2	8.5	9.7	0.0
Home Insulation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	5.2	8.0	10.7	10.7	12.2	12.2
Energy Efficient Light Fixtures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7	1.0	0.8	0.9	1.0
New Homes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.5	0.6	0.5
Lower Income	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.4	0.1
Water & Energy Saver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.5
High Efficiency Furnace & Boiler	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.3	9.8	14.7	22.5	21.2	24.1	14.2
DISCONTINUED/COMPLETED																							
Retrofit/Demonstration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Heater Rental	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermostat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Res Hot Water	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Outdoor Timer	0.3	0.5	0.9	1.2	1.5	1.9	2.0	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.7	2.7
Seasonal LED Lighting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Appliances	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.6	1.3	1.5	-0.3
RBB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.3	0.5	1.0	1.3	1.6	1.9	2.1	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	3.1	3.7	4.3	4.0	4.6	2.8
RESIDENTIAL TOTAL	0.3	0.5	1.0	1.3	1.6	1.9	2.1	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.0	7.9	12.9	18.4	26.8	25.2	28.7	17.0
COMMERCIAL																							
Commercial Lighting	0.0	0.0	0.0	0.5	2.6	5.7	9.2	10.8	11.6	15.1	16.4	17.4	18.5	19.7	21.7	24.2	27.7	31.1	34.1	38.5	38.5	43.9	43.9
Commercial Insulation*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	1.1	1.5	1.7	2.0	2.4	3.8	4.2	5.4	7.4	8.7	9.3	9.0	10.2	10.2
Commercial Windows*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.0	1.2	1.6	2.0	2.2	2.6	2.7	2.8	3.2	3.5	2.6	2.9	2.0
Agricultural Heat Pads	0.0	0.0	0.0	0.0	0.3	0.6	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.4	1.7	2.2	2.4	2.8	3.0	3.2	2.7	3.0	2.8
Parking Lot Controllers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	1.8	2.9	3.3	3.3
Spray Valves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	1.7	1.8	2.1	2.7	3.1	2.9
Internal Retrofit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.6	2.0	2.1	2.2	2.1	2.4	1.9
Commercial Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	1.3	1.5	1.7	0.9
Commercial Refigeration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.5	0.5	0.5	0.9	0.9	0.9	1.0	1.1	1.2	1.1	1.3	1.4
HVAC - Chillers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0
Custom	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0
Commercial Building Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
City of Winnipeg Agreement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Commercial Kitchen Appliances	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Clothes Washers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Construction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Network Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Shops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.5	2.9	6.3	9.8	11.8	13.5	18.3	20.7	22.3	24.3	26.6	31.2	35.4	42.1	49.1	55.6	63.5	63.5	72.4	69.2
DISCONTINUED/COMPLETED																							
Commercial Showerhead 2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Infrared Heat Lamp	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7
Livestock Waterer	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Roadway Lighting	0.0	0.0	0.9	3.1	5.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.9	7.9
Sentinel Lighting	0.0	0.0	0.5	1.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.0
Commerical Air Barrier	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Agricultural Demand Controller	0.0	0.0	0.0	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1
Commerical Air Conditioning	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aboriginal Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	2.2	5.7	9.0	10.6	10.7	10.8	10.8	10.8	10.8	10.9	10.9	10.9	11.0	11.0	11.0	11.0	11.0	11.0	11.0	12.5	12.4
COMMERCIAL TOTAL	0.0	0.0	2.2	6.3	11.9	16.9	20.5	22.5	24.2	29.1	31.5	33.2	35.2	37.5	42.1	46.4	53.1	60.1	66.6	74.5	74.5	84.9	81.6
INDUSTRIAL																							
Performance Optimization	0.0	0.0	0.0	0.0	0.0	0.3	1.1	4.6	5.8	37.4	39.1	39.5	48.4	52.9	54.1	57.6	61.7	63.2	66.2	68.7	68.7	75.6	69.5
Emergency Preparedness	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.2	70.1
	0.0	0.0	0.0	0.0	0.0	0.3	1.1	4.6	5.8	37.4	39.1	39.5	48.4	52.9	54.1	57.6	61.7	63.2	66.2	68.7	68.7	154.8	139.7
DISCONTINUED/COMPLETED																							
Industrial (Basic)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retrofit/Demonstration GSL	0.0	0.0	0.0	0.3	0.3	1.6	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.5
High Efficiency Motors	0.0	0.0	0.1	0.7	1.3	1.8	2.3	3.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.2	4.2
Efficient Motors (QMR)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.1	1.0	1.7	3.4	6.6	7.3	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.9	8.7
INDUSTRIAL TOTAL	0.0	0.0	0.1	1.0	1.7	3.7	7.7	11.9	13.9	45.5	47.3	47.6	56.5	61.1	62.2	65.8	69.8	71.3	74.4	76.8	76.8	163.8	148.4
EFFICIENCY PROGRAMS SUBTOTAL	0.3	0.5	3.3	8.6	15.2	22.5	30.2	36.8	40.6	77.1	81.3	83.3	94.3	101.1	106.8	117.1	130.8	144.3	159.4	178.1	176.5	277.3	247.0
CUSTOMER SELF-GENERATION PROGRAMS																							
BioEnergy Optimization Program	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	14.3	14.3	14.3	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	14.3	14.3	14.3	0.0	0.0	0.0
RATE/LOAD MANAGEMENT PROGRAMS																							
Curtailable Rates	0.0	0.0	0.0	0.0	40.7	46.4	24.7	32.7	80.0	48.2	58.0	57.1	68.0	110.3	148.5	153.8	189.1	183.3	180.6	172.8	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	40.7	46.4	24.7	32.7	80.0	48.2	58.0	57.1	68.0	110.3	148.5	153.8	189.1	183.3	180.6	172.8	0.0	0.0	0.0
MW IMPACTS (at meter)	0.3	0.5	3.3	8.6	55.9	68.9	54.9	69.5	120.6	125.3	139.3	140.4	162.3	211.4	255.4	270.9	334.2	341.9	354.3	365.2	176.5	N/A	N/A
MW IMPACTS (at generation)	0.3	0.6	3.7	9.8	62.0	76.6	61.3	77.5	133.7	139.1	154.6	155.8	180.0	234.1	282.7	300.1	370.1	379.0	393.1	405.7	198.1	277.3	247.0

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

Persisting Average Winter MW
Electric Incentive Based Programs

	2010/11	2011/12	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	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39
RESIDENTIAL																													
Compact Fluorescent Lighting	7.1	6.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Home Insulation	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	9.9	8.7	8.7	5.9	3.1
Energy Efficient Light Fixtures	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.7	0.4	0.2
New Homes	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.1
Lower Income	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water & Energy Saver	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
High Efficiency Furnace & Boiler	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19.7	18.7	17.1	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.6	12.4	12.4	12.4	12.4	12.4	12.4	12.3	11.0	9.7	9.7	6.6	3.4
DISCONTINUED/COMPLETED																													
Retrofit/Demonstration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Heater Rental	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermostat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Res Hot Water	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Outdoor Timer	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Seasonal LED Lighting	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Appliances	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.8	0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	0.0	0.0	0.0	0.0	0.0
RBB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.0	2.4	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.5	2.5	2.5	2.5	2.5
RESIDENTIAL TOTAL	23.7	22.7	21.1	16.6	16.6	16.6	16.6	16.5	16.5	16.5	16.5	16.5	16.0	15.5	14.9	14.9	14.8	14.6	14.5	14.5	14.5	14.5	14.5	14.4	13.5	12.2	12.2	9.1	5.9
COMMERCIAL																													
Commercial Lighting	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	34.9	34.9	32.0	27.5	27.5	27.5	27.5	27.5	25.7	23.2	23.2	23.2	23.2	23.2
Commercial Insulation*	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	7.8	7.8	6.6	6.0	4.9	4.9	4.9	4.9	3.6	4.5	2.4	2.4	2.4	2.3
Commercial Windows*	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.1	1.8	1.7	1.7	1.7	1.7	1.7	2.8	2.8	2.8	2.8	2.6	2.1	2.0	2.0	2.0	2.0
Agricultural Heat Pads	2.7	2.7	2.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.1	2.5	2.3	2.3	2.1	1.9
Parking Lot Controllers	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.7	2.1	1.0	-0.3	-0.3	-0.3	-0.3	-0.3
Spray Valves	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.1	1.7	1.5	1.4	1.1	0.0	0.0	0.0	0.0	0.0
Internal Retrofit	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	1.9	1.8	1.7	1.8	1.8	1.7	1.6	0.4	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Commercial Geothermal	1.5	1.5	1.5	1.5	1.5	1.6	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.3
Commercial Refigeration	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.6	0.6
HVAC - Chillers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Custom	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Building Optimization	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
City of Winnipeg Agreement	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Kitchen Appliances	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Clothes Washers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Construction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Network Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Shops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	63.5	63.5	63.5	63.3	63.3	63.4	63.2	62.5	62.1	62.0	61.8	61.7	61.2	60.8	60.7	54.6	54.3	50.1	45.0	44.7	44.3	43.9	43.2	37.7	33.7	31.2	31.2	30.9	30.0
DISCONTINUED/COMPLETED																													
Commercial Showerhead 2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Infrared Heat Lamp	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Livestock Waterer	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roadway Lighting	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Sentinel Lighting	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Commerical Air Barrier	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Agricultural Demand Controller	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Commerical Air Conditioning	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aboriginal Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11.0	11.0	11.0	11.0	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.8	10.8	10.8	10.8	10.8	10.8
COMMERCIAL TOTAL	74.4	74.4	74.4	74.3	74.2	74.3	74.1	73.3	72.9	72.9	72.7	72.6	72.0	71.7	71.6	65.4	65.1	61.0	55.8	55.6	55.1	54.8	54.1	48.5	44.5	42.0	42.0	41.7	40.8
INDUSTRIAL																													
Performance Optimization	68.7	68.7	68.7	68.7	68.7	68.7	68.6	68.6	68.3	68.3	68.3	68.4	65.3	63.2	63.2	61.3	61.3	61.3	61.2	61.2	61.2	61.2	61.2	59.5	55.9	53.8	53.8	53.8	53.8
Emergency Preparedness	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	68.7	68.7	68.7	68.7	68.7	68.7	68.6	68.6	68.3	68.3	68.3	68.4	65.3	63.2	63.2	61.3	61.3	61.3	61.2	61.2	61.2	61.2	61.2	59.5	55.9	53.8	53.8	53.8	53.8
DISCONTINUED/COMPLETED																													
Industrial (Basic)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retrofit/Demonstration GSL	4.3	4.3	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
High Efficiency Motors	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Efficient Motors (QMR)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8.1	8.1	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
INDUSTRIAL TOTAL	76.8	76.8	76.7	76.6	76.6	76.6	76.5	76.5	76.2	76.2	76.2	76.3	73.2	71.1	71.1	69.3	69.2	69.2	69.1	69.1	69.1	69.1	69.1	67.4	63.8	61.7	61.7	61.7	61.7
EFFICIENCY PROGRAMS SUBTOTAL	175.0	173.9	172.2	167.5	167.4	167.5	167.2	166.4	165.7	165.6	165.5	165.4	161.3	158.4	157.6	149.6	149.2	144.8	139.5	139.2	138.8	138.4	137.7	130.3	121.9	115.9	115.9	112.5	108.4
CUSTOMER SELF-GENERATION PROGRAMS																													
BioEnergy Optimization Program	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATE/LOAD MANAGEMENT PROGRAMS																													
Curtailable Rates	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW IMPACTS (at meter)	175.0	173.9	172.2	167.5	167.4	167.5	167.2	166.4	165.7	165.6	165.5	165.4	161.3	158.4	157.6	149.6	149.2	144.8	139.5	139.2	138.8	138.4	137.7	130.3	121.9	115.9	115.9	112.5	108.4
MW IMPACTS (at generation)	196.4	195.2	193.2	187.9	187.8	187.9	187.6	186.6	185.9	185.8	185.6	185.5	180.9	177.7	176.9	167.7	167.3	162.3	156.2	155.9	155.4	155.0	154.2	145.9	136.4	129.6	129.6	125.7	121.1

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

Total Average Winter MW
Electric Incentive Based Programs

	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	At Generation 2009/10	At Generation 2024/25
RESIDENTIAL																							
Compact Fluorescent Lighting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1	4.2	5.7	10.2	17.7	20.2	0.0
Home Insulation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	5.2	8.0	10.7	13.8	15.7	15.7
New Homes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7	1.0	1.2	1.3	1.3
Lower Income	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.7	0.8	0.7
Energy Efficient Light Fixtures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.4	0.5	0.2
High Efficiency Furnace & Boiler	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.5
Water & Energy Saver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.3	9.8	14.7	22.5	34.2	39.0	18.5
DISCONTINUED/COMPLETED																							
Retrofit/Demonstration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Heater Rental	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermostat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Res Hot Water	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Outdoor Timer	0.3	0.5	0.9	1.2	1.5	1.9	2.0	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.7	2.7
Seasonal LED Lighting	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2
RBB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Appliances	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.6	1.7	1.9	0.2
	0.3	0.5	1.0	1.3	1.6	1.9	2.1	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	3.1	3.7	4.3	4.4	5.1	3.3
RESIDENTIAL TOTAL	0.3	0.5	1.0	1.3	1.6	1.9	2.1	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.0	7.9	12.9	18.4	26.8	38.7	44.1	21.8
COMMERCIAL																							
Commercial Lighting	0.0	0.0	0.0	0.5	2.6	5.7	9.2	10.8	11.6	15.1	16.4	17.4	18.5	19.7	21.7	24.2	27.7	31.1	34.1	38.5	42.3	48.2	48.2
Commercial Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	1.1	1.5	1.7	2.0	2.4	3.8	4.2	5.4	7.4	8.7	9.3	10.3	11.8	11.8
Agricultural Heat Pads	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.0	1.2	1.6	2.0	2.2	2.6	2.7	2.8	3.2	3.5	3.6	4.1	3.2
Internal Retrofit	0.0	0.0	0.0	0.0	0.3	0.6	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.4	1.7	2.2	2.4	2.8	3.0	3.2	3.5	4.0	3.8
Commercial Insulation*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	1.8	3.2	3.6	3.6
Commercial Windows*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	1.7	1.8	2.1	3.0	3.4	3.2
City of Winnipeg Agreement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.6	2.0	2.1	2.2	2.4	2.7	1.9
Commercial Refigeration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	1.3	1.6	1.9	1.1
Custom	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.5	0.5	0.5	0.9	0.9	0.9	1.0	1.1	1.2	1.2	1.4	1.4
Spray Valves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.0
Commercial Clothes Washers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0
Commercial Kitchen Appliances	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Power Smart Shops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Network Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parking Lot Controllers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HVAC - Chillers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Building Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Construction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.5	2.9	6.3	9.8	11.8	13.5	18.3	20.7	22.3	24.3	26.6	31.2	35.4	42.1	49.1	55.6	63.5	71.8	81.9	78.0
DISCONTINUED/COMPLETED																							
Commercial Showerhead 2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Infrared Heat Lamp	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7
Livestock Waterer	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Roadway Lighting	0.0	0.0	0.9	3.1	5.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.9	7.9
Sentinel Lighting	0.0	0.0	0.5	1.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.0
Commerical Air Barrier	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Agricultural Demand Controller	0.0	0.0	0.0	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1
Commerical Air Conditioning	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aboriginal Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	2.2	5.7	9.0	10.6	10.7	10.8	10.8	10.8	10.8	10.9	10.9	10.9	11.0	11.0	11.0	11.0	11.0	11.0	11.0	12.5	12.4
COMMERCIAL TOTAL	0.0	0.0	2.2	6.3	11.9	16.9	20.5	22.5	24.2	29.1	31.5	33.2	35.2	37.5	42.1	46.4	53.1	60.1	66.6	74.5	82.7	94.3	90.4
INDUSTRIAL																							
Performance Optimization	0.0	0.0	0.0	0.0	0.0	0.3	1.1	4.6	5.8	37.4	39.1	39.5	48.4	52.9	54.1	57.6	61.7	63.2	66.2	68.7	72.0	79.2	70.1
Emergency Preparedness	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.3	1.1	4.6	5.8	37.4	39.1	39.5	48.4	52.9	54.1	57.6	61.7	63.2	66.2	68.7	72.0	79.2	70.1
DISCONTINUED/COMPLETED																							
Industrial (Basic)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retrofit/Demonstration GSL	0.0	0.0	0.0	0.3	0.3	1.6	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.5
High Efficiency Motors	0.0	0.0	0.1	0.7	1.3	1.8	2.3	3.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.2	4.2
Efficient Motors (QMR)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.1	1.0	1.7	3.4	6.6	7.3	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.9	8.7
INDUSTRIAL TOTAL	0.0	0.0	0.1	1.0	1.7	3.7	7.7	11.9	13.9	45.5	47.3	47.6	56.5	61.1	62.2	65.8	69.8	71.3	74.4	76.8	80.2	88.2	78.8
EFFICIENCY PROGRAMS SUBTOTAL	0.3	0.5	3.3	8.6	15.2	22.5	30.2	36.8	40.6	77.1	81.3	83.3	94.3	101.1	106.8	117.1	130.8	144.3	159.4	178.1	201.6	226.6	191.0
CUSTOMER SELF-GENERATION PROGRAMS																							
BioEnergy Optimization Program	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	14.3	14.3	14.3	14.3	15.7	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	14.3	14.3	14.3	14.3	15.7	0.0
RATE/LOAD MANAGEMENT PROGRAMS																							
Curtailable Rates	0.0	0.0	0.0	0.0	40.7	46.4	24.7	32.7	80.0	48.2	58.0	57.1	68.0	110.3	148.5	153.8	189.1	183.3	180.6	172.8	149.2	164.1	0.0
	0.0	0.0	0.0	0.0	40.7	46.4	24.7	32.7	80.0	48.2	58.0	57.1	68.0	110.3	148.5	153.8	189.1	183.3	180.6	172.8	149.2	164.1	0.0
MW IMPACTS (at meter)	0.3	0.5	3.3	8.6	55.9	68.9	54.9	69.5	120.6	125.3	139.3	140.4	162.3	211.4	255.4	270.9	334.2	341.9	354.3	365.2	365.0	N/A	N/A
MW IMPACTS (at generation)	0.3	0.6	3.7	9.8	62.0	76.6	61.3	77.5	133.7	139.1	154.6	155.8	180.0	234.1	282.7	300.1	370.1	379.0	393.1	405.7	406.4	406.4	191.0

Note: Subtotals may add due to rounding.
* Programs comprise the Commercial Building Envelope Program.

Total Average Winter MW
Electric Incentive Based Programs

	2010/11	2011/12	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	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39
RESIDENTIAL																													
Compact Fluorescent Lighting	16.3	15.2	13.7	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Home Insulation	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	12.9	11.7	11.7	8.9	6.2
New Homes	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	0.7	0.5
Lower Income	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.3
Energy Efficient Light Fixtures	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
High Efficiency Furnace & Boiler	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
Water & Energy Saver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	32.8	31.7	30.2	25.7	16.5	16.5	16.5	16.3	16.3	16.3	16.3	16.3	16.3	16.2	16.2	16.2	16.2	16.0	16.0	16.0	16.0	16.0	16.0	15.9	14.6	13.2	13.2	10.1	7.0
DISCONTINUED/COMPLETED																													
Retrofit/Demonstration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Heater Rental	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermostat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Res Hot Water	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Outdoor Timer	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Seasonal LED Lighting	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RBB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Appliances	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.2	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	3.9	3.4	2.9	2.7	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
RESIDENTIAL TOTAL	37.2	36.2	34.6	30.1	20.9	20.9	20.9	20.7	20.7	20.7	20.7	20.7	20.2	19.7	19.1	18.9	18.8	18.6	18.6	18.5	18.5	18.5	18.5	18.4	17.1	15.8	15.8	12.7	9.5
COMMERCIAL																													
Commercial Lighting	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	38.7	38.7	35.8	31.3	27.5	27.5	27.5	27.5	25.7	23.2	23.2	23.2	23.2	23.2
Commercial Geothermal	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	9.2	9.2	7.9	7.3	6.3	6.3	6.3	6.3	4.9	4.5	2.4	2.4	2.4	2.3
Agricultural Heat Pads	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.1	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.1	2.0	2.0	2.0	2.0	2.0
Internal Retrofit	3.5	3.5	3.5	3.4	3.4	3.3	3.3	3.3	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.0	2.5	2.3	2.3	2.1	1.9	
Commercial Insulation*	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.0	2.4	1.3	0.0	0.0	0.0	0.0	0.0
Commercial Windows*	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.4	2.0	1.8	1.7	1.4	0.3	0.3	0.3	0.3	0.3
City of Winnipeg Agreement	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.1	2.0	1.9	1.8	1.8	1.7	1.6	0.4	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Commercial Refigeration	1.6	1.6	1.6	1.6	1.6	1.8	1.6	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.3
Custom	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.6	0.6
Spray Valves	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Clothes Washers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Kitchen Appliances	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Shops	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Network Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parking Lot Controllers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HVAC - Chillers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Building Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Construction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	71.8	71.8	71.8	71.6	71.6	71.7	71.5	70.8	70.4	70.2	70.0	69.6	69.0	68.6	68.4	62.3	62.0	57.8	52.7	47.6	47.2	46.8	46.1	40.6	34.3	31.8	31.8	31.5	30.6
DISCONTINUED/COMPLETED																													
Commercial Showerhead 2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Infrared Heat Lamp	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Livestock Waterer	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roadway Lighting	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Sentinel Lighting	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Commerical Air Barrier	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Agricultural Demand Controller	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Commerical Air Conditioning	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aboriginal Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11.0	11.0	11.0	11.0	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.8	10.8	10.8	10.8	10.8	10.8	10.8
COMMERCIAL TOTAL	82.7	82.7	82.7	82.6	82.5	82.6	82.4	81.6	81.2	81.1	80.9	80.4	79.8	79.5	79.3	73.1	72.8	68.7	63.5	58.5	58.0	57.7	56.9	51.4	45.1	42.6	42.6	42.3	41.4
INDUSTRIAL																													
Performance Optimization	72.0	72.0	72.0	72.0	72.0	72.0	71.9	71.9	71.7	71.7	71.7	71.7	68.6	66.5	63.8	61.9	61.8	61.8	61.7	61.3	61.3	61.3	61.3	59.6	55.9	53.8	53.8	53.8	53.8
Emergency Preparedness	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	72.0	72.0	72.0	72.0	72.0	72.0	71.9	71.9	71.7	71.7	71.7	71.7	68.6	66.5	63.8	61.9	61.8	61.8	61.7	61.3	61.3	61.3	61.3	59.6	55.9	53.8	53.8	53.8	53.8
DISCONTINUED/COMPLETED																													
Industrial (Basic)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retrofit/Demonstration GSL	4.3	4.3	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
High Efficiency Motors	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Efficient Motors (QMR)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8.1	8.1	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
INDUSTRIAL TOTAL	80.2	80.2	80.0	79.9	79.9	79.9	79.8	79.8	79.6	79.6	79.6	79.6	76.5	74.4	71.7	69.8	69.8	69.8	69.7	69.3	69.3	69.3	69.3	67.6	63.8	61.7	61.7	61.7	61.7
EFFICIENCY PROGRAMS SUBTOTAL	200.1	199.0	197.3	192.6	183.3	183.4	183.1	182.2	181.5	181.3	181.2	180.7	176.6	173.6	170.1	161.8	161.4	157.1	151.8	146.2	145.8	145.5	144.7	137.4	126.0	120.0	120.0	116.6	112.5
CUSTOMER SELF-GENERATION PROGRAMS																													
BioEnergy Optimization Program	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATE/LOAD MANAGEMENT PROGRAMS																													
Curtailable Rates	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW IMPACTS (at meter)	200.1	199.0	197.3	192.6	183.3	183.4	183.1	182.2	181.5	181.3	181.2	180.7	176.6	173.6	170.1	161.8	161.4	157.1	151.8	146.2	145.8	145.5	144.7	137.4	126.0	120.0	120.0	116.6	112.5
MW IMPACTS (at generation)	224.9	223.7	221.7	216.4	205.8	205.9	205.5	204.5	203.8	203.5	203.3	202.9	198.3	195.0	191.0	181.7	181.3	176.3	170.2	163.9	163.4	163.0	162.2	153.9	141.1	134.4	134.4	130.5	125.8

Note: Subtotals may add due to rounding.
* Programs comprise the Commercial Building Envelope Program.

APPENDIX H

Natural Gas Savings (m3) – Incentive Based Programs

2009/10 Annual Gas Savings - million m^3
Natural Gas Incentive Based Programs

	2009/10	2010/11	2011/12	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	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39
RESIDENTIAL																														
Home Insulation	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
HE Gas Furance	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
Lower Income	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
New Homes	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	3.9	3.9	3.9	3.9	3.9	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4	2.4	2.4	2.4
DISCONTINUED/COMPLETED																														
Thermostat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RESIDENTIAL TOTAL	3.9	3.9	3.9	3.9	3.9	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4	2.4	2.4	2.4
COMMERCIAL																														
HVAC	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
Commercial Insulation*	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
Commercial Windows*	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Spray Valves	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Building Optimaztion	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Custom	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
City of Winnipeg Agreement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Kitchen Appliance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Shops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Construction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Clothes Washer	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COMMERCIAL TOTAL	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0
INDUSTRIAL																														
Industrial Natural Gas Optimization	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDUSTRIAL TOTAL	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EFFICIENCY PROGRAMS SUBTOTAL	8.2	8.2	8.2	8.2	8.2	8.0	8.0	8.0	8.0	8.0	7.6	7.6	7.6	7.6	7.5	6.6	6.6	6.6	6.6	6.6	6.4	6.4	6.4	6.4	6.4	2.4	2.4	2.4	2.4	2.4
CUSTOMER SELF-GENERATION																														
Bioenergy Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LESS: INTERACTIVE EFFECTS	-3.3	-3.3	-3.3	-3.3	-3.3	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NET IMPACT: OVERALL	5.0	5.0	5.0	5.0	5.0	7.9	7.9	7.9	7.9	7.9	7.5	7.5	7.5	7.5	7.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	2.5	2.5	2.5	2.4	2.4

Note: Subtotals may not be exact due to rounding.
* Programs comprise Commercial Building Envelope Program.

Persisting Natural Gas Savings - million m^3
Natural Gas Incentive Based Programs

	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	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
RESIDENTIAL																								
Home Insulation	0.0	0.0	0.0	0.0	0.6	2.6	4.0	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
HE Gas Furnace	0.0	0.0	0.0	0.0	0.3	2.2	3.9	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
Lower Income Energy Efficiency	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
New Homes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	1.0	4.9	8.1	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
DISCONTINUED/COMPLETED																								
Thermostat	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RESIDENTIAL TOTAL	0.0	0.0	0.0	0.0	1.0	5.0	8.3	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
COMMERCIAL																								
HVAC	0.0	0.0	0.0	0.0	0.0	0.4	2.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Commercial Insulation*	0.0	0.0	0.0	0.0	0.0	0.3	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Commercial Windows*	0.0	0.0	0.0	0.0	0.0	0.8	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.3	1.0	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
Spray Valves	0.0	0.1	0.1	0.2	0.6	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.6	0.6	0.6	0.5	0.5
Commercial Building Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Commercial Kitchen Appliance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
City of Winnipeg Agreement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Commercial Custom	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Construction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Clothes Washer	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Shops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COMMERCIAL TOTAL	0.0	0.1	0.1	0.2	0.6	2.2	5.5	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	9.3	9.0	7.9	7.9	7.8	7.8	7.7	7.7	7.6
INDUSTRIAL																								
Industrial Natural Gas Optimization	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.6	1.6	1.6
INDUSTRIAL TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.6	1.6	1.6
EFFICIENCY PROGRAMS SUBTOTAL	0.0	0.1	0.1	0.2	1.6	7.3	15.5	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.0	24.7	23.6	23.6	23.5	23.5	23.3	21.2	21.2
CUSTOMER SELF-GENERATION																								
Bioenergy Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LESS: INTERACTIVE EFFECTS	0.0	0.0	0.0	-1.2	-2.6	-3.0	-3.8	-5.9	-5.3	-4.8	-4.4	-3.7	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9	-1.9	-1.4
NET IMPACT: OVERALL	0.0	0.1	0.1	-1.0	-1.0	4.2	11.7	20.0	20.6	21.0	21.5	22.2	24.1	24.1	24.1	23.3	22.9	21.8	21.8	21.8	21.7	21.4	19.3	19.7

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

Persisting Natural Gas Savings - million m^3
Natural Gas Incentive Based Programs

	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39
RESIDENTIAL														
Home Insulation	5.8	5.8	5.8	5.8	5.8	5.2	3.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
HE Gas Furnace	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.3	5.3	3.6	1.8
Lower Income Energy Efficiency	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1
New Homes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11.7	11.7	11.7	11.7	11.7	11.1	9.1	7.7	5.9	5.9	5.6	5.6	3.8	1.9
DISCONTINUED/COMPLETED														
Thermostat	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RESIDENTIAL TOTAL	11.9	11.9	11.9	11.9	11.9	11.3	9.2	7.7	5.9	5.9	5.6	5.6	3.8	1.9
COMMERCIAL														
HVAC	4.8	4.8	4.8	4.8	4.8	4.8	4.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Insulation*	2.1	2.1	2.1	2.1	2.1	2.1	1.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Windows*	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	0.0	0.0	0.0	0.0	0.0
Spray Valves	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Building Optimization	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.0	0.0	0.0	0.0	0.0
Commercial Kitchen Appliance	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
City of Winnipeg Agreement	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Custom	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Construction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Clothes Washer	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Shops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COMMERCIAL TOTAL	7.3	7.3	7.3	7.3	7.2	7.2	6.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
INDUSTRIAL														
Industrial Natural Gas Optimization	1.6	1.6	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
INDUSTRIAL TOTAL	1.6	1.6	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
EFFICIENCY PROGRAMS SUBTOTAL	20.9	20.8	19.3	19.3	19.3	18.7	15.8	11.4	5.9	5.9	5.6	5.6	3.8	1.9
CUSTOMER SELF-GENERATION														
Bioenergy Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LESS: INTERACTIVE EFFECTS	-0.6	-0.7	-0.5	-0.3	-0.2	-0.1	-0.1	-0.1	-0.1	-0.4	-1.7	-0.4	-0.4	-0.2
NET IMPACT: OVERALL	20.2	20.1	18.8	19.1	19.1	18.6	15.7	11.2	5.8	5.5	3.8	5.2	3.3	1.7

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

Total Annual Gas Savings - million m3
Natural Gas Incentive Based Programs

	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	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
RESIDENTIAL																								
Home Insulation	0.0	0.0	0.0	0.0	0.3	2.2	3.9	5.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
HE Gas Furance	0.0	0.0	0.0	0.0	0.6	2.6	4.0	5.8	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Lower Income	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4
New Homes	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	0.0	0.0	0.0	0.0	1.0	4.9	8.1	11.7	15.6	15.6	15.6	15.6	15.6	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.3	15.3
DISCONTINUED/COMPLETED																								
Thermostat	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RESIDENTIAL TOTAL	0.0	0.0	0.0	0.0	1.0	5.0	8.3	11.9	15.8	15.8	15.8	15.8	15.8	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.5	15.5
COMMERCIAL																								
HVAC	0.0	0.0	0.0	0.0	0.0	0.4	2.5	4.8	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Commercial Insulation*	0.0	0.0	0.0	0.0	0.0	0.3	1.1	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Spray Valves	0.0	0.0	0.0	0.0	0.0	0.8	1.1	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.5	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0
City of Winnipeg Agreement	0.0	0.1	0.1	0.2	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5
Commercial Windows*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Commercial Building Optimaztion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Custom	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Commercial Kitchen Appliance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Shops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Construction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Clothes Washers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COMMERCIAL TOTAL	0.0	0.1	0.1	0.2	0.6	2.2	5.5	10.1	13.4	13.4	13.4	13.4	13.4	13.4	13.4	12.6	12.3	11.1	10.7	10.7	10.7	10.6	10.5	10.5
INDUSTRIAL																								
Industrial Natural Gas Optimization	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.7	2.7	1.8
INDUSTRIAL TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.7	2.7	1.8
EFFICIENCY PROGRAMS SUBTOTAL	0.0	0.1	0.1	0.2	1.6	7.3	15.5	25.9	34.1	34.1	34.1	34.1	34.1	33.9	33.9	33.1	32.8	31.7	31.3	31.2	31.2	30.9	28.7	27.8
CUSTOMER SELF-GENERATION																								
Bioenergy Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LESS: INTERACTIVE EFFECTS	0.0	0.0	0.0	-1.2	-2.6	-3.0	-3.8	-5.9	-8.6	-8.1	-7.7	-7.0	-5.1	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-2.0	-2.1	-1.6
NET IMPACT: OVERALL	0.0	0.1	0.1	-1.0	-1.0	4.2	11.7	20.0	25.6	26.0	26.4	27.1	29.0	32.0	32.0	31.2	30.9	29.7	29.4	29.3	29.2	28.9	26.6	26.2

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

Total Annual Gas Savings - million m3
Natural Gas Incentive Based Programs

	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39
RESIDENTIAL														
Home Insulation	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.3	7.3	5.6	3.9
HE Gas Furance	6.9	6.9	6.9	6.9	6.9	6.3	4.3	2.9	1.2	0.0	0.0	0.0	0.0	0.0
Lower Income	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
New Homes	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1
	15.3	15.3	15.3	15.3	15.3	14.7	12.7	11.2	9.5	8.3	8.0	8.0	6.2	4.3
DISCONTINUED/COMPLETED														
Thermostat	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RESIDENTIAL TOTAL	15.5	15.5	15.5	15.5	15.5	14.8	12.7	11.2	9.5	8.3	8.0	8.0	6.2	4.3
COMMERCIAL														
HVAC	6.2	6.1	6.1	6.1	6.1	6.1	5.8	3.7	1.4	0.0	0.0	0.0	0.0	0.0
Commercial Insulation*	3.2	3.2	3.2	3.2	3.2	3.2	3.0	2.2	1.1	0.0	0.0	0.0	0.0	0.0
Spray Valves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
City of Winnipeg Agreement	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Windows*	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.0	0.0	0.0	0.0	0.0
Commercial Building Optimaztion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Custom	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Kitchen Appliance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Shops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Construction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Smart Energy Manager	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Clothes Washers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COMMERCIAL TOTAL	10.2	10.1	10.1	10.1	10.0	10.0	9.2	6.3	2.8	0.0	0.0	0.0	0.0	0.0
INDUSTRIAL														
Industrial Natural Gas Optimization	1.8	1.8	0.3	0.3	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
INDUSTRIAL TOTAL	1.8	1.8	0.3	0.3	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
EFFICIENCY PROGRAMS SUBTOTAL	27.4	27.4	25.9	25.9	25.7	25.1	22.2	17.7	12.3	8.3	8.0	8.0	6.2	4.3
CUSTOMER SELF-GENERATION														
Bioenergy Optimization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LESS: INTERACTIVE EFFECTS	-0.8	-0.9	-0.7	-0.4	-0.2	-0.1	-0.1	-0.1	-0.1	-0.4	-1.7	-0.4	-0.4	-0.2
NET IMPACT: OVERALL	26.6	26.5	25.2	25.5	25.5	24.9	22.1	17.6	12.2	8.0	6.3	7.6	5.8	4.2

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

APPENDIX I

GW.h Energy Savings – Customer Service Initiatives (CSI)

2009/10 Annual Energy Savings - GW.h
Electric CSI Programs

	2009/10	2010/11	2011/12	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
RESIDENTIAL																
Power Smart Residential Loan	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Residential Earth Power	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
ecoEnergy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
DISCONTINUED/COMPLETED																
PSEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GW.h IMPACTS (at meter)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
GW.h IMPACTS (at generation)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1

Note: Subtotals may not be exact due to rounding.

2009/10 Annual Energy Savings - GW.h
Electric CSI Programs

	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	At Generation 2009/10	At Generation 2024/25
RESIDENTIAL																
Power Smart Residential Loan	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	1.9	1.9
Residential Earth Power	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
ecoEnergy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2.7	2.7	2.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	0.0	0.0	3.1	3.1
DISCONTINUED/COMPLETED																
PSEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GW.h IMPACTS (at meter)	2.7	2.7	2.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	0.0	0.0	N/A	N/A
GW.h IMPACTS (at generation)	3.1	3.1	3.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	3.1	3.1

Note: Subtotals may not be exact due to rounding.

Persisting Energy Savings - GW.h
Electric CSI Programs

	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	At Generation 2009/10	At Generation 2024/25
RESIDENTIAL																							
Power Smart Residential Loan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	2.2	2.7	3.2	3.9	4.6	3.6	5.2	6.0	6.0
Residential Earth Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	2.8	4.8	6.1	8.8	9.1	10.2	11.6	6.1
ecoEnergy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.0	3.4	6.3	8.7	10.8	14.2	13.4	16.1	18.4	13.0
DISCONTINUED/COMPLETED																							
PSEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	2.4	2.8	2.8	2.8	2.8	2.8	2.8	3.2	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	2.6	3.0	3.0	3.0	3.0	3.0	3.0	3.4	0.2
GW.h IMPACTS (at meter)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.4	6.0	9.3	11.7	13.8	17.2	16.4	19.1	N/A	N/A
GW.h IMPACTS (at generation)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.9	6.8	10.6	13.4	15.7	19.6	18.7	21.8	21.8	13.2

Note: Subtotals may not be exact due to rounding.

Persisting Energy Savings - GW.h
Electric CSI Programs

	2010/11	2011/12	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	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39
RESIDENTIAL																													
Power Smart Residential Loan	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.3	3.7	3.1	2.0	2.0	1.4	0.0	0.0
Residential Earth Power	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	9.8	9.2	5.4	5.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ecoEnergy	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.5	0.0	0.0	0.0	0.0	0.0
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	15.8	15.2	11.4	11.4	10.0	6.0	6.0	6.0	6.0	5.1	4.3	3.5	2.0	2.0	1.4	0.0	0.0
DISCONTINUED/COMPLETED																													
PSEM	2.8	2.2	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2000	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3.0	2.4	1.8	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GW.h IMPACTS (at meter)	19.1	18.5	17.9	16.8	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.0	15.4	11.6	11.6	10.2	6.2	6.2	6.2	6.2	5.2	4.3	3.5	2.0	2.0	1.4	0.0	0.0
GW.h IMPACTS (at generation)	21.8	21.1	20.5	19.1	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.2	17.5	13.2	13.2	11.6	7.0	7.0	7.0	7.0	5.9	5.0	4.0	2.3	2.3	1.6	0.0	0.0

Note: Subtotals may not be exact due to rounding.

Total Annual Energy Savings - GW.h
Electric CSI Programs

	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	At Generation 2009/10	At Generation 2024/25
RESIDENTIAL																							
Power Smart Residential Loan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	2.2	2.7	3.2	3.9	4.6	5.2	6.9	7.8	7.8
Residential Earth Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	2.8	4.8	6.1	8.8	10.2	11.2	12.8	7.3
ecoEnergy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.0	3.4	6.3	8.7	10.8	14.2	16.1	18.9	21.5	16.1
DISCONTINUED/COMPLETED																							
PSEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	2.4	2.8	2.8	2.8	2.8	2.8	2.8	3.2	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	2.6	3.0	3.0	3.0	3.0	3.0	3.0	3.4	0.2
GW.h IMPACTS (at meter)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.4	6.0	9.3	11.7	13.8	17.2	19.1	21.9	N/A	N/A
GW.h IMPACTS (at generation)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.9	6.8	10.6	13.4	15.7	19.6	21.8	24.9	24.9	16.3

Note: Subtotals may not be exact due to rounding.

Total Annual Energy Savings - GW.h
Electric CSI Programs

	2010/11	2011/12	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	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39
RESIDENTIAL																													
Power Smart Residential Loan	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.0	5.3	4.7	3.7	3.7	3.0	0.0	0.0
Residential Earth Power	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	10.9	10.2	6.4	6.4	5.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ecoEnergy	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.5	0.0	0.0	0.0	0.0	0.0
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.5	17.9	14.1	14.1	12.7	8.7	7.7	7.7	7.7	6.8	6.0	5.2	3.7	3.7	3.0	0.0	0.0
DISCONTINUED/COMPLETED																													
PSEM	2.8	2.2	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2000	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3.0	2.4	1.8	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GW.h IMPACTS (at meter)	21.9	21.3	20.7	19.5	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	18.7	18.1	14.3	14.3	12.9	8.9	7.9	7.9	7.9	6.8	6.0	5.2	3.7	3.7	3.0	0.0	0.0
GW.h IMPACTS (at generation)	24.9	24.2	23.6	22.2	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.4	20.6	16.3	16.3	14.7	10.2	9.0	9.0	9.0	7.8	6.9	5.9	4.2	4.2	3.4	0.0	0.0

Note: Subtotals may not be exact due to rounding.

APPENDIX J

Average Winter MW Savings – Customer Service Initiatives (CSI)

2009/10 Average Winter MW
Electric CSI Programs

	2009/10	2010/11	2011/12	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
RESIDENTIAL																
Power Smart Residential Loan	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Residential Earth Power	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
ecoEnergy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
DISCONTINUED/COMPLETED																
PSEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW IMPACTS (at meter)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
MW IMPACTS (at generation)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

Note: Subtotals may not be exact due to rounding.

2009/10 Average Winter MW
Electric CSI Programs

	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	At Generation 2009/10	At Generation 2024/25
RESIDENTIAL																
Power Smart Residential Loan	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	1.0	1.0
Residential Earth Power	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
ecoEnergy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.4	1.4	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	1.6	1.6
DISCONTINUED/COMPLETED																
PSEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW IMPACTS (at meter)	1.4	1.4	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	N/A	N/A
MW IMPACTS (at generation)	1.6	1.6	1.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.6	1.6

Note: Subtotals may not be exact due to rounding.

Persisting Average Winter MW
Electric CSI Programs

	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	At Generation 2009/10	At Generation 2024/25
RESIDENTIAL																							
Power Smart Residential Loan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	1.1	1.4	1.6	2.0	2.7	2.7	3.0	3.5	3.5
Residential Earth Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.6	1.1	1.4	2.1	2.1	2.5	2.8	2.1
ecoEnergy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.3	2.0	2.7	3.4	4.8	4.8	5.5	6.3	5.6
DISCONTINUED/COMPLETED																							
PSEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
MW IMPACTS (at meter)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.2	2.9	3.6	5.0	5.0	5.7	N/A	N/A
MW IMPACTS (at generation)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.7	2.5	3.3	4.1	5.7	5.7	6.5	6.5	5.6

Note: Subtotals may not be exact due to rounding.

Persisting Average Winter MW
Electric CSI Programs

	2010/11	2011/12	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	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39
RESIDENTIAL																													
Power Smart Residential Loan	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.6	2.2	1.9	1.7	1.4	1.0	0.0	0.0
Residential Earth Power	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.3	2.2	2.2	1.8	1.8	1.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
ecoEnergy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.3	5.3	4.9	4.9	4.5	3.5	3.5	3.5	3.5	3.0	2.7	2.4	2.1	1.4	1.0	0.0	0.0
DISCONTINUED/COMPLETED																													
PSEM	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW IMPACTS (at meter)	5.7	5.7	5.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.4	5.3	5.3	4.9	4.9	4.6	3.5	3.5	3.5	3.5	3.0	2.7	2.4	2.1	1.4	1.0	0.0	0.0
MW IMPACTS (at generation)	6.5	6.5	6.4	6.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.2	6.1	6.1	5.6	5.6	5.2	4.0	4.0	4.0	4.0	3.4	3.1	2.7	2.4	1.6	1.2	0.0	0.0

Note: Subtotals may not be exact due to rounding.

Total Average Winter MW
Electric CSI Programs

	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	At Generation 2009/10	At Generation 2024/25
RESIDENTIAL																							
Power Smart Residential Loan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	1.1	1.4	1.6	2.0	2.7	3.0	3.9	4.5	4.5
Residential Earth Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.6	1.1	1.4	2.1	2.5	3.0	3.4	2.7
ecoEnergy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.3	2.0	2.7	3.4	4.8	5.5	6.9	7.9	7.2
DISCONTINUED/COMPLETED																							
PSEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
MW IMPACTS (at meter)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.2	2.9	3.6	5.0	5.7	7.1	N/A	N/A
MW IMPACTS (at generation)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.7	2.5	3.3	4.1	5.7	6.5	8.1	8.1	7.2

Note: Subtotals may not be exact due to rounding.

Total Average Winter MW
Electric CSI Programs

	2010/11	2011/12	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	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39
RESIDENTIAL																													
Power Smart Residential Loan	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.5	3.1	2.8	2.5	2.3	1.9	0.0	0.0	0.0
Residential Earth Power	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.8	2.7	2.7	2.4	2.4	2.0	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
ecoEnergy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.8	6.7	6.7	6.3	6.3	5.9	4.9	4.4	4.4	4.4	3.9	3.6	3.3	3.0	2.3	1.9	0.0	0.0
DISCONTINUED/COMPLETED																													
PSEM	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW IMPACTS (at meter)	7.1	7.1	7.1	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.8	6.7	6.7	6.3	6.3	6.0	4.9	4.4	4.4	4.4	3.9	3.6	3.3	3.0	2.3	1.9	0.0	0.0
MW IMPACTS (at generation)	8.1	8.1	8.0	8.0	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.8	7.7	7.7	7.2	7.2	6.8	5.6	5.0	5.0	5.0	4.5	4.1	3.7	3.4	2.6	2.2	0.0	0.0

Note: Subtotals may not be exact due to rounding.

APPENDIX K

Natural Gas Savings (m³) – Customer Service Initiatives (CSI)

2009/10 Natural Gas Savings - million m3
Natural Gas CSI Programs

	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	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
RESIDENTIAL																								
Power Smart Residential Loan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Residential Earth Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
ecoEnergy Earth Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
DISCONTINUED/COMPLETED																								
PSEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9

Note: Subtotals may not be exact due to rounding.

2009/10 Natural Gas Savings - million m3
Natural Gas CSI Programs

	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39
RESIDENTIAL														
Power Smart Residential Loan	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0
Residential Earth Power	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
ecoEnergy Earth Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0
DISCONTINUED/COMPLETED														
PSEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0

Note: Subtotals may not be exact due to rounding.

Persisting Natural Gas Savings - million m3
Natural Gas CSI Programs

	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	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
RESIDENTIAL																								
Power Smart Residential Loan	1.2	2.1	3.5	5.6	7.8	9.6	11.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
Residential Earth Power	0.0	0.1	0.1	0.5	0.8	1.0	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	0.9
ecoEnergy Earth Power	0.0	0.1	0.4	1.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.2	2.3	4.0	7.3	10.9	12.8	14.9	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.0	15.9	15.6
DISCONTINUED/COMPLETED																								
PSEM	0.0	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.2	2.4	4.3	7.7	11.3	13.2	15.3	16.4	16.4	16.4	16.4	16.4	16.2	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.0	15.9	15.6

Note: Subtotals may not be exact due to rounding.

Persisting Natural Gas Savings - million m3
Natural Gas CSI Programs

	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39
RESIDENTIAL														
Power Smart Residential Loan	12.3	12.3	12.3	12.3	12.3	12.3	11.1	10.1	8.8	6.7	4.5	1.0	0.0	0.0
Residential Earth Power	0.7	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
ecoEnergy Earth Power	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	1.9	1.1	0.0	0.0	0.0	0.0
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.3	15.1	14.7	14.7	14.7	14.7	13.5	12.5	10.8	7.9	4.6	1.1	0.0	0.0
DISCONTINUED/COMPLETED														
PSEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	15.3	15.1	14.8	14.8	14.8	14.8	13.5	12.5	10.8	7.9	4.6	1.1	0.0	0.0

Note: Subtotals may not be exact due to rounding.

Total Annual Natural Gas Savings - million m3
Natural Gas CSI Programs

	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	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
RESIDENTIAL																								
Power Smart Residential Loan	1.2	2.1	3.5	5.6	7.8	9.6	11.3	12.3	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
Residential Earth Power	0.0	0.1	0.1	0.5	0.8	1.0	1.3	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.5	1.2
ecoEnergy Earth Power	0.0	0.1	0.4	1.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.2	2.3	4.0	7.3	10.9	12.8	14.9	16.1	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.8	17.4
DISCONTINUED/COMPLETED																								
PSEM	0.0	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.2	2.4	4.3	7.7	11.3	13.2	15.3	16.4	18.3	18.3	18.3	18.2	18.1	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	17.9	17.8	17.5

Note: Subtotals may not be exact due to rounding.

Total Annual Natural Gas Savings - million m3
Natural Gas CSI Programs

	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39
RESIDENTIAL														
Power Smart Residential Loan	13.9	13.9	13.9	13.9	13.9	13.9	12.7	11.8	10.4	8.4	6.1	2.6	0.0	0.0
Residential Earth Power	0.9	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0
ecoEnergy Earth Power	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	1.9	1.1	0.0	0.0	0.0	0.0
Solar HWT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17.1	17.0	16.6	16.6	16.6	16.6	15.4	14.4	12.7	9.8	6.5	3.0	0.0	0.0
DISCONTINUED/COMPLETED														
PSEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	17.2	17.0	16.6	16.6	16.6	16.6	15.4	14.4	12.7	9.8	6.5	3.0	0.0	0.0

Note: Subtotals may not be exact due to rounding.

APPENDIX L

Annual Energy Savings - Codes and Standards (GW.h, MW, and m^3)

Annual Energy Savings - GW.h
Codes and Standards

	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10
Appliances:																		
Ovens	0.4	(0.2)	(0.1)	0.1	(0.3)	(0.1)	(0.1)	(0.1)	(0.3)	0.2	0.2	0.0	0.0	0.1	(0.2)	(0.2)	(0.2)	3.3
Dishwashers	(0.0)	0.1	0.2	0.4	0.7	0.8	0.7	0.7	0.7	0.8	0.8	1.3	2.0	2.0	2.5	3.4	3.5	0.2
Clothes Washers	(0.3)	(0.3)	0.1	0.1	0.1	0.2	0.6	0.8	0.8	0.8	0.7	0.9	3.0	3.1	3.9	3.6	3.8	0.2
Clothes Dryers	0.1	0.1	0.4	0.4	4.6	0.5	0.1	0.1	0.1	0.2	0.2	0.2	1.0	1.0	1.0	0.9	0.9	14.0
Refrigerators	2.0	4.7	6.1	7.1	7.0	7.2	7.1	7.2	7.8	7.8	10.1	11.0	12.9	13.2	12.8	16.2	17.1	18.7
Freezers	(0.3)	0.3	0.4	0.5	0.7	0.4	0.5	0.5	0.5	0.5	0.3	0.3	0.5	(0.8)	(0.5)	(0.7)	(0.8)	3.1
High Efficiency Motors Program	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
New Homes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	1.0	1.1	1.2	1.5	0.8	1.2	1.3	1.5	1.0
New Homes (Insulation)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
T12 Lighting	0.0	0.0	0.0	0.0	0.0	9.7	15.4	16.5	14.9	16.3	19.2	0.5	0.4	0.3	0.3	0.3	0.3	0.4
Subtotal	1.9	4.6	7.1	8.6	12.8	20.3	26.0	28.6	27.2	29.2	34.2	16.9	22.9	21.4	22.5	24.8	26.1	42.5
GW.h IMPACTS (at meter)	1.9	4.6	7.1	8.6	12.8	20.3	26.0	28.6	27.2	29.2	34.2	16.9	22.9	21.4	22.5	24.8	26.1	42.5
GW.h IMPACTS (at generation)	2.2	5.3	8.1	9.8	14.6	23.1	29.6	32.5	30.9	33.3	39.0	19.2	26.1	24.3	25.6	28.3	29.8	48.4

Note: Subtotals may not be exact due to rounding.

Annual Energy Savings - Average Winter MW
Codes and Standards

	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10
Appliances:																		
Ovens	0.1	(0.0)	(0.0)	0.0	(0.1)	(0.0)	(0.0)	(0.0)	(0.1)	0.0	0.0	0.0	0.0	0.0	(0.1)	(0.0)	(0.0)	1.2
Dishwashers	(0.0)	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.5	0.6	0.8	0.9	0.0
Clothes Washers	(0.1)	(0.1)	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.8	1.0	0.9	0.9	0.0
Clothes Dryers	0.0	0.0	0.1	0.1	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	1.8
Refrigerators	0.5	1.1	1.5	1.7	1.7	1.8	1.7	1.8	1.9	1.9	2.5	2.7	3.1	3.2	3.1	4.0	4.2	2.1
Freezers	(0.1)	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	(0.2)	(0.1)	(0.2)	(0.2)	0.3
High Efficiency Motors Program	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
New Homes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.4	0.5	0.5	0.4
New Homes (Insulation)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
T12 Lighting	0.0	0.0	0.0	0.0	0.0	2.7	4.3	4.7	4.2	4.6	5.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Subtotal	0.5	1.1	1.7	2.1	3.0	5.2	6.8	7.6	7.2	7.8	9.1	4.1	5.6	5.2	5.5	6.2	6.5	6.8
MW IMPACTS (at meter)	0.5	1.1	1.7	2.1	3.0	5.2	6.8	7.6	7.2	7.8	9.1	4.1	5.6	5.2	5.5	6.2	6.5	6.8
MW IMPACTS (at generation)	0.5	1.3	2.0	2.4	3.4	5.9	7.7	8.7	8.2	8.8	10.3	4.7	6.4	5.9	6.2	7.0	7.4	7.7

Note: Subtotals may not be exact due to rounding.

Annual Natural Gas Savings - millions m3
Codes and Standards

	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10
Appliances:										
Dishwashers	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1
Clothes Washers	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0
Furnaces:										
Residential - Provincial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Commercial - Federal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial - Provincial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Homes (Insulation)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
	0.0	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.5

Note: Subtotals may not be exact due to rounding.

APPENDIX M

Electric Incentive Based TRC, Utility, Administration and Incentive Costs

Total Resource Cost (1000s in 2009$)
Electric Incentive Based Programs

	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Cumulative Total 2009/10	Cumulative Total 2024/25
RESIDENTIAL																							
High Efficiency Furnace & Boiler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,719	2,719	2,719
Home Insulation	0	0	0	0	248	378	236	220	397	44	4	44	70	69	135	773	1,165	2,262	2,002	2,084	2,183	12,315	12,315
Low Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	102	210	1,415	1,913	3,683	3,683
New Homes	0	0	0	38	149	94	212	120	62	32	1	18	130	287	219	362	790	1,209	871	968	897	6,458	6,458
Compact Fluorescent Lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1,322	1,024	772	962	1,238	872	6,210	6,210
Energy Efficient Light Fixtures	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136	524	373	129	1,162	1,162
Water & Energy Saver	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	18	0	0	79	49	147	147
Refrigerator Recycling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	11
	0	0	0	38	396	472	448	340	458	76	5	62	200	356	375	2,458	3,039	4,481	4,569	6,157	8,774	32,706	32,706
DISCONTINUED/COMPLETED																							
Outdoor Timer	894	745	1,085	802	609	654	277	572	274	752	530	903	649	546	0	258	569	264	748	529	903	12,561	19,312
Seasonal LED Lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	231	248	274	2	808	808
Thermostat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	4	8	79	39	5	0	143	143
Retrofit/Demonstration	0	0	90	119	0	0	4	0	0	0	0	0	0	0	0	13	46	0	0	0	0	272	272
Water Heater Rental	0	0	0	0	0	0	18	389	385	77	5	0	0	0	0	0	0	0	0	0	0	875	875
Res Hot Water	0	0	187	0	0	0	2	60	25	23	4	0	0	0	0	0	0	25	0	0	0	326	359
Appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	20	14	10	95	2,606	4,087	2,515	526	9,873	9,873
RBB	0	0	26	12	0	0	0	0	0	0	0	0	0	16	28	5	65	24	0	0	0	177	177
	894	745	1,389	933	609	654	301	1,022	684	852	538	903	649	582	50	291	836	3,230	5,122	3,323	1,431	25,035	31,820
EXPLORATORY PROGRAMS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20
RESIDENTIAL TOTAL	894	745	1,389	971	1,005	1,126	749	1,362	1,142	928	544	965	848	938	425	2,748	3,875	7,711	9,691	9,480	10,225	57,761	64,546
COMMERCIAL																							
Commercial Lighting	0	0	106	1,307	2,591	3,013	2,987	1,603	1,257	3,715	1,247	1,209	1,734	1,653	5,094	9,729	12,850	10,121	10,364	12,887	7,640	91,108	116,905
Commercial Geothermal	0	0	0	0	14	48	77	163	579	317	536	212	335	713	1,670	707	1,637	4,608	1,917	1,202	2,035	16,769	21,169
Internal Retrofit	0	0	115	272	454	547	158	207	174	225	111	294	135	278	613	695	639	1,056	690	1,264	1,117	9,043	9,712
Custom	0	0	0	0	19	65	104	194	0	960	1,538	319	320	446	1,452	80	51	388	948	346	1,058	8,287	11,384
Commercial Windows*	0	0	0	0	8	26	41	125	145	82	43	101	73	157	206	314	1,524	379	359	301	980	4,864	4,980
Parking Lot Controllers	0	0	0	0	38	129	208	189	205	474	60	90	280	163	406	532	1,368	1,246	821	532	727	7,470	9,898
Commercial Insulation*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	257	338	399	526	1,519	1,519
Commercial Clothes Washers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	89	509	654	654
Commercial Refigeration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	233	406	476	347	452	1,914	2,104
HVAC - Chillers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	313	293	136	447	272	1,461	1,461
Power Smart Shops	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	61	245	307	307
City of Winnipeg Agreement	0	0	0	0	0	0	0	0	0	0	0	0	0	153	2,478	1,790	4,708	1,702	226	99	235	11,390	11,390
New Buildings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	140	96	162	399	399
Commercial Kitchen Appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	99	209	209
Power Smart Energy Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	80	114	86	281	281
Network Energy Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	20	68	91	91
Agricultural Heat Pads	0	0	0	0	0	0	3	66	34	40	29	20	23	31	27	79	43	42	38	29	31	536	536
Commercial Building Optimization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180	58	40	159	24	461	461
Spray Valves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	28	22	9	96	96
	0	0	221	1,579	3,124	3,827	3,579	2,546	2,395	5,813	3,563	2,246	2,900	3,594	11,946	13,927	23,546	20,598	16,658	18,522	16,273	156,856	193,553
DISCONTINUED/COMPLETED																							
Infrared Heat Lamp	0	17	152	33	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	223	236
Commercial Showerhead 2	0	64	149	34	4	118	0	0	0	0	0	0	0	0	0	0	0	61	0	0	0	429	429
Livestock Waterer	0	0	0	0	0	157	166	90	23	4	0	0	0	0	0	0	0	0	0	0	0	440	440
Roadway Lighting	0	110	2,008	3,612	3,409	2,564	17	0	45	0	0	0	0	0	0	0	0	0	0	0	0	11,765	11,765
Sentinel Lighting	0	31	1,285	1,076	1,104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,496	3,496
Commerical Air Barrier	0	0	0	0	8	27	44	111	78	5	16	62	39	32	36	17	19	0	32	0	0	525	525
Agricultural Demand Controller	0	0	31	1,041	367	0	0	0	0	0	0	0	0	0	0	0	0	0	599	210	0	2,249	2,249
Commerical Air Conditioning	0	0	0	0	0	2	3	78	74	0	0	0	3	19	0	11	9	0	0	0	0	200	201
Aboriginal Commercial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	222	3,625	5,796	4,899	2,869	231	280	221	10	16	63	43	52	37	29	29	62	632	211	1	19,326	19,341
COMMERCIAL TOTAL	0	222	3,846	7,374	8,023	6,696	3,810	2,827	2,616	5,822	3,580	2,309	2,943	3,646	11,982	13,956	23,575	20,660	17,290	18,732	16,274	176,182	212,893
INDUSTRIAL																							
Performance Optimization	0	0	85	183	234	1,088	1,155	3,615	1,696	10,436	294	934	7,256	10,556	2,772	6,622	4,150	2,692	6,869	4,984	5,438	71,059	94,083
Emergency Preparedness	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	70	151	151
	0	0	85	183	234	1,088	1,155	3,615	1,696	10,436	294	934	7,256	10,556	2,772	6,622	4,150	2,692	6,869	5,065	5,508	71,210	94,234
DISCONTINUED/COMPLETED																							
High Efficiency Motors	0	22	313	819	728	547	478	601	704	45	3	0	0	0	0	0	0	0	482	467	318	5,527	6,510
Industrial (Basic)	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13
Retrofit/Demonstration GSL	0	0	61	371	356	2,015	3,557	349	320	134	11	4	0	0	0	0	0	37	35	0	0	7,250	7,332
Efficient Motors (QMR)	0	0	0	22	51	19	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	96
	0	22	375	1,212	1,147	2,581	4,039	950	1,024	179	14	4	0	0	0	0	0	37	517	467	318	12,886	13,950
INDUSTRIAL TOTAL	0	22	460	1,395	1,381	3,669	5,194	4,565	2,720	10,615	308	939	7,256	10,556	2,772	6,622	4,150	2,729	7,386	5,532	5,826	84,095	108,185
EFFICIENCY PROGRAMS SUBTOTAL	894	988	5,694	9,741	10,409	11,491	9,753	8,753	6,478	17,365	4,431	4,212	11,047	15,140	15,180	23,326	31,600	31,099	34,367	33,745	32,325	318,039	385,624
CUSTOMER SELF-GENERATION PROGRAMS																							
BioEnergy Optimization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	571	6,558	4,757	5,139	4,571	21,595	21,595
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	571	6,558	4,757	5,139	4,571	21,595	21,595
RATE/LOAD MANAGEMENT PROGRAMS																							
Curtailable Rates	0	0	0	84	119	211	73	50	47	34	34	33	9	9	14	17	9	7	10	5	6	771	771
	0	0	0	84	119	211	73	50	47	34	34	33	9	9	14	17	9	7	10	5	6	771	771
Support Costs	0	347	3,337	4,010	2,849	1,585	1,883	1,512	1,204	1,562	2,223	2,994	2,650	3,392	3,427	3,577	3,208	2,609	2,560	4,204	4,272	53,407	53,407
TOTAL RESOURCE COST	894	1,335	9,031	13,835	13,377	13,287	11,709	10,316	7,729	18,961	6,688	7,240	13,706	18,541	18,621	26,919	35,388	40,274	41,694	43,092	41,174	393,812	461,398

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

Power Smart Utility Cost (Without Affordable Energy Fund) (1000s in 2009$)
Electric Incentive Based Programs

	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Cumulative Total 2009/10
RESIDENTIAL																						
Lower Income*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	102	210	175	111	641
Home Insulation	0	0	0	0	248	378	236	220	397	44	4	44	70	69	135	745	1,109	1,891	1,526	1,686	1,675	10,478
Compact Fluorescent Lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	784	1,014	811	929	1,280	1,578	6,417
New Homes	0	0	0	38	149	94	212	120	62	32	1	18	130	287	219	299	600	897	644	639	575	5,017
Energy Efficient Light Fixtures	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154	495	383	185	1,216
Water & Energy Saver	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	18	0	0	79	49	147
High Efficiency Furnace & Boiler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3
Refrigerator Recycling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
	0	0	0	38	396	472	448	340	458	76	5	62	200	356	375	1,828	2,787	3,856	3,803	4,242	4,184	23,930
EXPLORATORY PROGRAMS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20
DISCONTINUED/COMPLETED																						
Appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	20	14	10	95	1,531	1,948	1,731	397	5,746
Seasonal LED Lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	388	361	342	23	1,197
Thermostat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	4	8	70	34	10	0	135
Retrofit/Demonstration	0	63	26	119	0	0	4	0	0	0	0	0	0	0	0	13	46	0	0	0	0	272
Water Heater Rental	0	0	0	0	0	0	18	389	385	73	5	0	0	0	0	0	0	0	0	0	0	871
Res Hot Water	0	0	171	0	0	0	2	60	25	15	4	0	0	0	0	0	0	0	0	0	0	277
Outdoor Timer	193	282	241	188	92	54	19	3	9	4	0	0	0	0	0	0	0	0	0	0	0	1,085
RBB	0	0	51	12	0	0	0	0	0	0	0	0	0	16	28	5	65	24	13	0	0	216
Aboriginal Residential	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	14	0	0	0	19
	193	345	489	318	92	54	43	453	419	92	9	0	0	36	50	33	303	2,027	2,356	2,083	420	9,816
RESIDENTIAL TOTAL	193	345	489	357	488	525	491	793	878	168	15	62	200	392	425	1,861	3,090	5,883	6,160	6,325	4,624	33,766
COMMERCIAL																						
Commercial Lighting	0	0	106	1,132	2,426	2,862	2,809	1,167	993	1,965	877	642	996	1,180	2,662	5,246	6,327	7,255	7,497	7,777	7,253	61,172
Internal Retrofit**	0	0	115	272	454	547	158	206	170	224	111	285	135	277	609	694	591	783	601	716	1,066	8,013
Commercial Windows***	0	0	0	0	8	26	41	125	166	61	43	74	66	152	118	238	316	392	382	444	1,008	3,658
Parking Lot Controllers	0	0	0	0	38	129	208	110	99	186	20	51	200	109	283	357	1,059	915	587	380	508	5,241
Commercial Geothermal	0	0	0	0	14	48	77	64	219	114	131	108	165	280	630	271	507	627	354	223	383	4,212
Power Smart Shops	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	61	241	303
Commercial Insulation***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	214	257	239	228	938
Custom	0	0	0	0	19	65	104	77	0	213	516	129	144	80	154	11	8	119	188	240	210	2,277
Commercial Refigeration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	233	309	295	175	183	1,195
New Buildings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	140	96	162	399
HVAC - Chillers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175	202	72	213	160	822
Commercial Clothes Washers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	43	136	235
Agricultural Heat Pads	0	0	0	0	0	0	3	66	34	88	88	47	59	67	59	128	73	66	60	43	115	996
Power Smart Energy Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	80	116	86	283
Commercial Kitchen Appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91	82	173
Network Energy Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	20	68	91
City of Winnipeg Agreement	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2,812	1,928	4,609	1,823	201	63	45	11,486
Commercial Building Optimization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180	58	40	28	26	332
Spray Valves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	28	22	9	97
	0	0	221	1,403	2,959	3,676	3,400	1,815	1,680	2,851	1,786	1,335	1,764	2,148	7,327	8,872	14,079	12,805	10,841	10,990	11,971	101,923
DISCONTINUED/COMPLETED																						
Commercial Showerhead 2	0	64	117	34	4	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	336
Infrared Heat Lamp	0	17	280	32	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	335
Livestock Waterer	0	0	0	0	0	150	130	91	23	4	0	0	0	0	0	0	0	0	0	0	0	397
Roadway Lighting	0	110	1,457	2,055	1,877	1,426	17	0	45	0	0	0	0	0	0	0	0	0	0	0	0	6,987
Sentinel Lighting	0	31	1,285	1,076	1,104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,496
Commerical Air Barrier	0	0	0	0	8	27	44	96	76	3	10	33	21	17	18	7	4	0	5	0	0	369
Agricultural Demand Controller	0	0	31	614	209	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	854
Commerical Air Conditioning	0	0	0	0	0	2	3	78	74	0	0	0	7	52	0	135	11	0	0	0	0	362
Aboriginal Commercial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	222	3,170	3,811	3,207	1,723	193	265	218	7	10	33	28	69	18	141	15	0	5	0	0	13,136
COMMERCIAL TOTAL	0	222	3,391	5,214	6,165	5,399	3,594	2,080	1,899	2,858	1,796	1,368	1,792	2,217	7,346	9,014	14,093	12,805	10,847	10,990	11,971	115,059
INDUSTRIAL																						
Performance Optimization	0	0	85	183	234	482	488	439	640	388	258	398	1,006	3,178	1,194	1,619	1,688	1,083	3,237	2,521	2,910	22,031
Emergency Preparedness	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	70	151
	0	0	85	183	234	482	488	439	640	388	258	398	1,006	3,178	1,194	1,619	1,688	1,083	3,237	2,603	2,980	22,182
DISCONTINUED/COMPLETED																						
Industrial (Basic)	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Retrofit/Demonstration GSL	0	0	61	312	328	600	1,030	349	320	82	11	4	0	0	0	0	0	37	0	0	0	3,134
High Efficiency Motors	0	22	303	736	589	468	429	465	627	45	3	0	0	0	0	0	0	0	0	0	0	3,688
Efficient Motors (QMR)	0	0	0	22	51	19	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96
	0	22	365	1,070	973	1,087	1,463	814	947	128	14	4	0	0	0	0	0	37	0	0	0	6,924
INDUSTRIAL TOTAL	0	22	450	1,252	1,207	1,569	1,950	1,253	1,587	516	271	402	1,006	3,178	1,194	1,619	1,688	1,120	3,237	2,603	2,980	29,106
EFFICIENCY PROGRAMS SUBTOTAL	193	589	4,330	6,823	7,860	7,494	6,035	4,126	4,363	3,542	2,082	1,833	2,998	5,787	8,965	12,494	18,872	19,808	20,243	19,919	19,575	177,931
CUSTOMER SELF-GENERATION PROGRAMS																						
BioEnergy Optimization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148	1,705	1,647	1,731	1,488	6,719
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148	1,705	1,647	1,731	1,488	6,719
RATE/LOAD MANAGEMENT PROGRAMS																						
Curtailable Rates	0	0	0	84	620	1,523	1,370	1,343	1,162	1,485	1,836	2,354	3,102	4,678	6,127	6,142	6,847	6,699	6,642	6,427	5,767	64,210
	0	0	0	84	620	1,523	1,370	1,343	1,162	1,485	1,836	2,354	3,102	4,678	6,127	6,142	6,847	6,699	6,642	6,427	5,767	64,210
Support Costs	0	347	3,337	4,010	2,849	1,585	1,883	1,512	1,204	1,562	2,223	2,994	2,650	3,392	3,427	3,577	3,208	1,960	2,142	3,688	3,766	53,407
UTILITY COST OF PROGRAMS	193	936	7,667	10,918	11,330	10,602	9,288	6,982	6,730	6,589	6,141	7,181	8,750	13,858	18,519	22,213	29,075	30,172	30,675	31,764	30,596	302,267

Note: Subtotals may not be exact due to rounding.
* The Lower Income Program does not include expenses from the Affordable Energy Fund in 2009/10.
** Excludes $2 M for Downtown Office Project which was not allocated to the Internal Retrofit Program in 2009/10, excluding $20.8 M cumulatively.
*** Programs comprise the Commercial Building Envelope Program.

Power Smart Utility Costs - Affordable Energy Fund (1000s in 2009$)
Electric Incentive-Based Programs

	2006/07	2007/08	2008/09	2009/10	Cumulative Total
LOWER INCOME EXPENDITURES					
Lower Income/Community Based Initiatives	268	226	935	1,672	3,101
Community Support and Outreach	0	0	36	130	166
	268	226	970	1,802	3,266
SUPPORT EXPENDITURES					
Geothermal Support	649	278	93	104	1,124
Oil and Propane Heated Residential Homes	0	77	85	31	193
Special Projects					0
Residential Energy Assessment Service	*0*	*63*	*243*	*85*	*391*
Oil and Propane Furnace Replacement	*0*	*0*	*6*	*36*	*42*
Solar Water Heating	*0*	*0*	*90*	*119*	*209*
Power Smart Residential Loan	*0*	*0*	*0*	*130*	*130*
	649	418	516	506	2,089
TOTAL EXPENDITURES	917	643	1,487	2,308	5,356

Total Power Smart Utility Costs - Including Affordable Energy Costs (1000s in 2009$)
Electric Incentive Based Programs

	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Cumulative Total 2009/10
RESIDENTIAL																						
Low Income*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	102	210	1,146	1,913	3,413
Home Insulation	0	0	0	0	248	378	236	220	397	44	4	44	70	69	135	745	1,109	1,891	1,526	1,686	1,675	10,478
Compact Fluorescent Lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	784	1,014	811	929	1,280	1,578	6,417
New Homes	0	0	0	38	149	94	212	120	62	32	1	18	130	287	219	299	600	897	644	639	575	5,017
Energy Efficient Light Fixtures	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154	495	383	185	1,216
Water & Energy Saver	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	18	0	0	79	49	147
High Efficiency Furnace & Boiler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3
Refrigerator Recycling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
	0	0	0	38	396	472	448	340	458	76	5	62	200	356	375	1,828	2,787	3,856	3,803	5,213	5,986	26,702
EXPLORATORY PROGRAMS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20
DISCONTINUED/COMPLETED																						
Appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	20	14	10	95	1,531	1,948	1,731	397	5,746
Seasonal LED Lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	388	361	342	23	1,197
Thermostat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	4	8	70	34	10	0	135
Retrofit/Demonstration	0	63	26	119	0	0	4	0	0	0	0	0	0	0	0	13	46	0	0	0	0	272
Water Heater Rental	0	0	0	0	0	0	18	389	385	73	5	0	0	0	0	0	0	0	0	0	0	871
Res Hot Water	0	0	171	0	0	0	2	60	25	15	4	0	0	0	0	0	0	0	0	0	0	277
Outdoor Timer	193	282	241	188	92	54	19	3	9	4	0	0	0	0	0	0	0	0	0	0	0	1,085
RBB	0	0	51	12	0	0	0	0	0	0	0	0	0	16	28	5	65	24	0.0	0	0	202
Aboriginal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	14	0	0	0	19
	193	345	489	318	92	54	43	453	419	92	9	0	0	36	50	33	303	2,027	2,343	2,083	420	9,803
RESIDENTIAL TOTAL	193	345	489	357	488	525	491	793	878	168	15	62	200	392	425	1,861	3,090	5,883	6,146	7,296	6,427	36,526
COMMERCIAL																						
Commercial Lighting	0	0	106	1,132	2,426	2,862	2,809	1,167	993	1,965	877	642	996	1,180	2,662	5,246	6,327	7,255	7,497	7,777	7,253	61,172
Internal Retrofit**	0	0	115	272	454	547	158	206	170	224	111	285	135	277	609	694	591	783	601	716	1,066	8,013
Commercial Windows***	0	0	0	0	8	26	41	125	166	61	43	74	66	152	118	238	316	392	382	444	1,008	3,658
Parking Lot Controllers	0	0	0	0	38	129	208	110	99	186	20	51	200	109	283	357	1,059	915	587	380	508	5,241
Commercial Geothermal	0	0	0	0	14	48	77	64	219	114	131	108	165	280	630	271	507	627	354	223	383	4,212
Power Smart Shops	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	61	241	303
Commercial Insulation***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	214	257	239	228	938
Custom	0	0	0	0	19	65	104	77	0	213	516	129	144	80	154	11	8	119	188	240	210	2,277
Commercial Refigeration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	233	309	295	175	183	1,195
New Buildings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	140	96	162	399
HVAC - Chillers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175	202	72	213	160	822
Commercial Clothes Washers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	43	136	235
Agricultural Heat Pads	0	0	0	0	0	0	3	66	34	88	88	47	59	67	59	128	73	66	60	43	115	996
Power Smart Energy Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	80	116	86	283
Commercial Kitchen Appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91	82	173
Network Energy Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	20	68	91
City of Winnipeg Agreement	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2,812	1,928	4,609	1,823	201	63	45	11,486
Commercial Building Optimization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180	58	40	28	26	332
Spray Valves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	28	22	9	97
	0	0	221	1,403	2,959	3,676	3,400	1,815	1,680	2,851	1,786	1,335	1,764	2,148	7,327	8,872	14,079	12,805	10,841	10,990	11,971	101,923
DISCONTINUED/COMPLETED																						
Commercial Showerhead 2	0	64	117	34	4	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	336
Infrared Heat Lamp	0	17	280	32	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	335
Livestock Waterer	0	0	0	0	0	150	130	91	23	4	0	0	0	0	0	0	0	0	0	0	0	397
Roadway Lighting	0	110	1,457	2,055	1,877	1,426	17	0	45	0	0	0	0	0	0	0	0	0	0	0	0	6,987
Sentinel Lighting	0	31	1,285	1,076	1,104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,496
Commerical Air Barrier	0	0	0	0	8	27	44	96	76	3	10	33	21	17	18	7	4	0	5	0	0	369
Agricultural Demand Controller	0	0	31	614	209	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	854
Commerical Air Conditioning	0	0	0	0	0	2	3	78	74	0	0	0	7	52	0	135	11	0	0	0	0	362
Aboriginal Commercial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	222	3,170	3,811	3,207	1,723	193	265	218	7	10	33	28	69	18	141	15	0	5	0	0	13,136
COMMERCIAL TOTAL	0	222	3,391	5,214	6,165	5,399	3,594	2,080	1,899	2,858	1,796	1,368	1,792	2,217	7,346	9,014	14,093	12,805	10,847	10,990	11,971	115,059
INDUSTRIAL																						
Performance Optimization	0	0	85	183	234	482	488	439	640	388	258	398	1,006	3,178	1,194	1,619	1,688	1,083	3,237	2,521	2,910	22,031
Emergency Preparedness	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	70	151
	0	0	85	183	234	482	488	439	640	388	258	398	1,006	3,178	1,194	1,619	1,688	1,083	3,237	2,603	2,980	22,182
DISCONTINUED/COMPLETED																						
Industrial (Basic)	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Retrofit/Demonstration GSL	0	0	61	312	328	600	1,030	349	320	82	11	4	0	0	0	0	0	37	0	0	0	3,134
High Efficiency Motors	0	22	303	736	589	468	429	465	627	45	3	0	0	0	0	0	0	0	0	0	0	3,688
Efficient Motors (QMR)	0	0	0	22	51	19	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96
	0	22	365	1,070	973	1,087	1,463	814	947	128	14	4	0	0	0	0	0	37	0	0	0	6,924
INDUSTRIAL TOTAL	0	22	450	1,252	1,207	1,569	1,950	1,253	1,587	516	271	402	1,006	3,178	1,194	1,619	1,688	1,120	3,237	2,603	2,980	29,862
EFFICIENCY PROGRAMS SUBTOTAL	193	589	4,330	6,823	7,860	7,494	6,035	4,126	4,363	3,542	2,082	1,833	2,998	5,787	8,965	12,494	18,872	19,808	20,230	20,889	21,377	181,447
CUSTOMER SELF-GENERATION PROGRAMS																						
BioEnergy Optimization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148	1,705	1,647	1,731	1,488	6,719
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148	1,705	1,647	1,731	1,488	6,719
RATE/LOAD MANAGEMENT PROGRAMS																						
Curtailable Rates	0	0	0	84	620	1,523	1,370	1,343	1,162	1,485	1,836	2,354	3,102	4,678	6,127	6,142	6,847	6,699	6,642	6,427	5,767	64,210
	0	0	0	84	620	1,523	1,370	1,343	1,162	1,485	1,836	2,354	3,102	4,678	6,127	6,142	6,847	6,699	6,642	6,427	5,767	64,210
Support Costs	0	347	3,337	4,010	2,849	1,585	1,883	1,512	1,204	1,562	2,223	2,994	2,650	3,392	3,427	3,577	3,208	2,609	2,560	4,204	4,272	53,407
UTILITY COST OF PROGRAMS	193	936	7,667	10,918	11,330	10,602	9,288	6,982	6,730	6,589	6,141	7,181	8,750	13,858	18,519	22,213	29,075	30,821	31,079	33,250	32,904	305,783

Note: Subtotals may not be exact due to rounding.
* The Affordable Energy Fund is included in the Lower Income Program spending.
** Excludes $2 M for Downtown Office Project which was not allocated to the Internal Retrofit Program in 2009/10, excluding $20.8 M cumulatively.
*** Programs comprise the Commercial Building Envelope Program.

Administration Cost (1000s in 2009$)
Electric Incentive Based Programs

	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Cumulative Total 2009/10	Cumulative Total 2024/25
RESIDENTIAL																							
Low Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0	170	845	1,162	2,221	2,221
Compact Fluorescent Lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	628	753	581	678	628	510	3,799	3,799
New Homes	0	0	0	38	149	94	212	120	62	32	0	18	130	287	219	289	534	771	532	538	462	4,486	4,486
Home Insulation	0	0	0	0	248	378	236	220	397	44	4	44	70	69	135	270	425	285	212	212	187	3,437	3,437
Energy Efficient Light Fixtures	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	391	313	122	887	887
Water & Energy Saver	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	18	0	0	79	49	147	147
Refrigerator Recycling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	11
High Efficiency Furnace & Boiler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	3
	0	0	0	38	396	472	448	340	458	76	4	62	200	356	375	1,186	1,776	1,698	1,983	2,616	2,505	14,991	14,991
EXPLORATORY PROGRAMS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20
DISCONTINUED/COMPLETED																							
Seasonal LED Lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	231	248	274	2	808	808
Thermostat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	4	8	48	24	5	0	97	97
Retrofit/Demonstration	0	63	26	119	0	0	0	0	0	0	0	0	0	0	0	13	46	0	0	0	0	267	267
Water Heater Rental	0	0	0	0	0	0	18	389	385	73	5	0	0	0	0	0	0	0	0	0	0	871	871
Res Hot Water	0	0	162	0	0	0	2	60	25	15	4	0	0	0	0	0	0	0	0	0	0	268	268
Outdoor Timer	145	216	183	154	63	54	19	3	9	4	0	0	0	0	0	0	0	0	0	0	0	850	850
Appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	20	14	10	95	559	607	407	107	1,819	1,819
RBB	0	0	26	12	0	0	0	0	0	0	0	0	0	16	28	5	65	0	0	0	0	153	153
	145	279	397	284	63	54	39	453	419	92	9	0	0	36	50	33	267	837	879	686	109	5,134	5,134
RESIDENTIAL TOTAL	145	279	397	323	460	525	487	793	878	168	14	62	200	392	425	1,219	2,043	2,536	2,862	3,302	2,634	20,145	20,145
COMMERCIAL																							
Commercial Lighting	0	0	106	834	929	770	622	425	552	413	304	325	398	806	1,100	1,863	1,814	2,147	2,044	1,841	1,892	19,186	19,186
Power Smart Shops	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	239	300	300
Internal Retrofit	0	0	115	221	199	176	61	65	68	61	43	88	49	102	120	175	188	227	266	524	232	2,981	2,981
New Buildings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	162	258	258
Parking Lot Controllers	0	0	0	0	38	129	208	77	74	67	5	31	152	86	213	280	489	177	117	143	145	2,431	2,431
Commercial Geothermal	0	0	0	0	14	48	77	35	74	27	12	38	78	141	281	145	200	200	212	131	120	1,833	1,833
Commercial Windows*	0	0	0	0	8	26	41	77	74	8	1	24	13	41	31	60	52	154	160	100	115	985	985
Commercial Refigeration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	233	217	193	94	96	833	833
Power Smart Energy Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	86	200	200
Custom	0	0	0	0	19	65	104	48	0	88	86	78	94	59	62	8	1	78	34	207	86	1,117	1,117
Network Energy Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	64	84	84
City of Winnipeg Agreement	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2,039	1,004	963	431	54	63	45	4,603	4,603
Commercial Insulation*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141	142	43	44	370	370
Commercial Clothes Washers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	38	72	72
Commercial Kitchen Appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	35	81	81
Agricultural Heat Pads	0	0	0	0	0	0	3	66	34	40	29	20	23	31	26	79	43	42	28	18	31	515	515
Commercial Building Optimization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180	58	40	21	17	316	316
HVAC - Chillers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	21	14	13	17	135	135
Spray Valves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	15	5	6	39	39
	0	0	221	1,055	1,207	1,213	1,116	795	876	703	481	605	807	1,270	3,872	3,614	4,235	3,905	3,320	3,572	3,470	36,338	36,338
DISCONTINUED/COMPLETED																							
Commercial Showerhead 2	0	64	88	34	4	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	307	307
Infrared Heat Lamp	0	17	151	32	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	206	206
Livestock Waterer	0	0	0	0	0	130	112	80	23	4	0	0	0	0	0	0	0	0	0	0	0	350	350
Roadway Lighting	0	110	1,457	2,055	1,877	1,426	17	0	45	0	0	0	0	0	0	0	0	0	0	0	0	6,987	6,987
Sentinel Lighting	0	31	1,285	1,076	1,104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,496	3,496
Commerical Air Barrier	0	0	0	0	8	27	44	77	74	1	1	17	10	10	9	4	1	0	1	0	0	284	284
Agricultural Demand Controller	0	0	31	442	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	623	623
Commerical Air Conditioning	0	0	0	0	0	2	3	77	74	0	0	0	3	19	0	11	2	0	0	0	0	192	192
Aboriginal Commercial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	222	3,012	3,639	3,148	1,703	176	234	216	5	1	17	13	29	9	16	4	0	1	0	0	12,444	12,444
COMMERCIAL TOTAL	0	222	3,233	4,694	4,355	2,916	1,293	1,029	1,092	708	482	622	820	1,299	3,881	3,630	4,239	3,905	3,320	3,573	3,470	48,781	48,781
INDUSTRIAL																							
Performance Optimization	0	0	85	183	234	339	249	292	263	202	216	203	285	1,918	396	189	334	394	498	583	441	7,304	7,304
Emergency Preparedness	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	70	151	151
	0	0	85	183	234	339	249	292	263	202	216	203	285	1,918	396	189	334	394	498	664	511	7,455	7,455
DISCONTINUED/COMPLETED																							
Industrial (Basic)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retrofit/Demonstration GSL	0	0	61	276	281	207	385	349	320	45	11	4	0	0	0	0	0	37	0	0	0	1,977	1,977
High Efficiency Motors	0	22	267	337	261	229	245	266	336	45	3	0	0	0	0	0	0	0	0	0	0	2,011	2,011
Efficient Motors (QMR)	0	0	0	22	51	19	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	96
	0	22	328	635	593	455	634	614	656	91	14	4	0	0	0	0	0	37	0	0	0	4,083	4,083
INDUSTRIAL TOTAL	0	22	414	817	826	794	883	906	919	292	230	208	285	1,918	396	189	334	431	498	664	511	11,538	11,538
EFFICIENCY PROGRAMS SUBTOTAL	145	523	4,044	5,835	5,641	4,235	2,662	2,728	2,889	1,168	726	892	1,305	3,609	4,703	5,038	6,616	6,872	6,680	7,539	6,615	80,465	80,465
CUSTOMER SELF-GENERATION PROGRAMS																							
BioEnergy Optimization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	286	360	360
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	286	360	360
RATE/LOAD MANAGEMENT PROGRAMS																							
Curtailable Rates	0	0	0	84	119	211	73	50	47	34	34	33	9	9	14	17	9	7	10	5	6	771	771
	0	0	0	84	119	211	73	50	47	34	34	33	9	9	14	17	9	7	10	5	6	771	771
Support Costs	0	347	3,337	4,010	2,849	1,585	1,883	1,512	1,204	1,562	2,223	2,994	2,650	3,392	3,427	3,577	3,208	2,609	2,560	4,204	4,272	53,407	53,407
ADMINISTRATION COSTS OF PROGRAMS	145	870	7,381	9,929	8,609	6,032	4,618	4,290	4,140	2,764	2,983	3,919	3,964	7,010	8,144	8,632	9,833	9,488	9,250	11,822	11,180	135,003	135,003

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

Incentive Cost (1000s in 2009$)
Electric Incentive Based Programs

	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Cumulative Total 2009/10
RESIDENTIAL																						
Home Insulation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	475	684	1,606	1,313	1,474	1,488	7,041
Compact Fluorescent Lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156	261	230	252	652	1,068	2,618
Low Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	300	751	1,091
New Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	66	127	112	101	113	530
Energy Efficient Light Fixtures	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	103	70	63	268
Water and Energy Saver	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High Efficiency Furnace & Boiler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	642	1,012	1,995	1,821	2,597	3,482	11,548
DISCONTINUED/COMPLETED																						
Seasonal LED Lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	157	112	67	21	389
Retrofit/Demonstration	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water Heater Rental	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thermostat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	10	5	0	38
Res Hot Water	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Outdoor Timer	48	66	58	34	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	235
Appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	973	1,340	1,324	290	3,926
RBB	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
	48	66	92	34	28	0	4	0	0	0	0	0	0	0	0	0	31	1,152	1,463	1,396	311	4,626
RESIDENTIAL TOTAL	48	66	92	34	28	0	4	0	0	0	0	0	0	0	0	642	1,042	3,147	3,284	3,994	3,792	16,173
COMMERCIAL																						
Commercial Lighting	0	0	0	298	1,497	2,092	2,187	742	441	1,552	573	317	598	373	1,563	3,383	4,513	5,108	5,453	5,936	5,361	41,986
Commercial Windows*	0	0	0	0	0	0	0	48	92	53	41	50	53	111	87	178	264	239	222	344	893	2,674
Parking Lot Controllers	0	0	0	0	0	0	0	33	25	120	15	20	47	23	70	77	570	737	471	237	364	2,809
Commercial Geothermal	0	0	0	0	0	0	0	29	145	87	118	69	87	139	348	126	307	428	142	92	263	2,379
Commercial Insulation*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	115	196	184	568
HVAC - Chillers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	181	58	200	144	688
Custom	0	0	0	0	0	0	0	29	0	125	430	51	50	21	92	3	7	41	155	33	124	1,160
Commercial Clothes Washers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	98	107
Commercial Refigeration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92	102	82	87	362
Agricultural Heat Pads	0	0	0	0	0	0	0	0	0	48	59	27	36	36	33	48	29	24	33	24	83	481
Commercial Kitchen Appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	47	92
Commercial Building Optimization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	9	16
Network Energy Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Spray Valves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	12	17	3	58
Power Smart Shops	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Internal Retrofit	0	0	0	50	255	371	97	140	102	163	67	197	86	175	489	519	403	0	0	0	0	3,114
City of Winnipeg Agreement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	773	924	3,646	1,392	147	0	0	6,883
New Buildings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power Smart Energy Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
	0	0	0	348	1,752	2,463	2,284	1,021	804	2,148	1,304	730	957	878	3,455	5,258	9,843	8,341	6,908	7,225	7,667	63,387
DISCONTINUED/COMPLETED																						
Commercial Showerhead 2	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Infrared Heat Lamp	0	0	129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129
Livestock Waterer	0	0	0	0	0	20	17	11	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Roadway Lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sentinel Lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
csmmerical Air Barrier	0	0	0	0	0	0	0	19	2	2	9	16	11	7	9	2	3	0	5	0	0	86
Agricultural Demand Controller	0	0	0	172	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	230
Commerical Air Conditioning	0	0	0	0	0	0	0	1	0	0	0	0	4	33	0	123	8	0	0	0	0	170
Aboriginal Commercial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	158	172	58	20	17	31	2	2	9	16	15	41	9	126	11	0	5	0	0	692
COMMERCIAL TOTAL	0	0	158	520	1,810	2,483	2,301	1,052	806	2,150	1,314	746	972	919	3,464	5,384	9,855	8,341	6,913	7,225	7,667	64,079
INDUSTRIAL																						
Performance Optimization	0	0	0	0	0	143	239	148	377	187	41	195	721	1,260	798	1,430	1,354	689	2,739	1,939	2,469	14,728
Emergency Preparedness	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	143	239	148	377	187	41	195	721	1,260	798	1,430	1,354	689	2,739	1,939	2,469	14,728
DISCONTINUED/COMPLETED																						
Industrial (Basic)	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Demonstration GSL	0	0	0	36	47	393	644	0	0	37	0	0	0	0	0	0	0	0	0	0	0	1,157
High Efficiency Motors	0	0	36	399	328	239	184	200	291	0	0	0	0	0	0	0	0	0	0	0	0	1,677
Efficient Motors (QMR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	36	435	381	632	829	200	291	37	0	0	0	0	0	0	0	0	0	0	0	2,840
INDUSTRIAL TOTAL	0	0	36	435	381	775	1,067	347	668	224	41	195	721	1,260	798	1,430	1,354	689	2,739	1,939	2,469	17,568
EFFICIENCY PROGRAMS SUBTOTAL	48	66	286	989	2,220	3,258	3,373	1,399	1,474	2,374	1,355	941	1,693	2,178	4,262	7,456	12,250	12,176	12,936	13,158	13,928	97,820
CUSTOMER SELF-GENERATION PROGRAMS																						
BioEnergy Optimization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148	1,695	1,527	1,657	1,201	6,227
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148	1,695	1,527	1,657	1,201	6,227
RATE/LOAD MANAGEMENT PROGRAMS																						
Curtailable Rates	0	0	0	0	501	1,312	1,297	1,293	1,115	1,452	1,802	2,321	3,093	4,669	6,113	6,126	6,838	6,692	6,632	6,422	5,761	63,439
	0	0	0	0	501	1,312	1,297	1,293	1,115	1,452	1,802	2,321	3,093	4,669	6,113	6,126	6,838	6,692	6,632	6,422	5,761	63,439
Support Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Program Incentive Budgets	48	66	286	989	2,721	4,570	4,670	2,692	2,589	3,825	3,157	3,262	4,786	6,848	10,375	13,581	19,236	20,562	21,094	21,236	20,890	167,486

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

APPENDIX N

Natural Gas Incentive Based TRC, Utility, Administration and Incentive Costs

Total Resource Cost (1000s in 2009$)
Natural Gas Incentive Based Programs

	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Cumulative Total 2009/10	Cumulative Total 2024/25
RESIDENTIAL											
Home Insulation	0	0	0	0	799	4,357	3,737	4,779	6,075	19,747	19,747
HE Gas Furnace	0	0	0	0	2,099	6,299	4,708	5,366	3,618	22,090	22,090
Lower Income	0	0	0	0	80	0	165	272	1,690	2,208	2,208
New Homes	0	13	76	172	118	268	425	246	694	2,012	2,012
Water & Energy Saver	0	0	0	0	0	0	0	0	40	40	40
	0	13	76	172	3,095	10,924	9,035	10,664	12,118	46,098	46,098
COMMERCIAL											
Commercial Insulation*	0	0	0	0	0	574	1,366	1,346	2,407	5,692	5,692
HVAC	0	0	0	0	107	946	2,493	2,973	1,908	8,426	8,426
Commercial Windows*	0	0	0	0	0	131	340	355	822	1,647	1,647
Commercial Custom	0	0	0	0	0	0	0	0	389	389	389
Commercial Building Optimization	0	0	0	0	77	233	159	116	212	798	798
New Buildings	0	0	0	0	0	0	0	144	108	252	252
Power Smart Shops	0	0	0	0	0	0	1	15	80	97	97
Power Smart Energy Manager	0	0	0	0	0	0	120	93	71	283	283
Commercial Kitchen Appliance	0	0	0	0	0	0	0	26	43	70	70
Spray Valves	0	0	0	0	0	129	56	123	27	334	334
Commercial Hot Water	0	0	0	0	0	0	0	0	22	22	22
City of Winnipeg Agreement	0	0	0	0	0	0	0	0	0	0	0
Commercial Clothes Washers	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	184	2,012	4,534	5,190	6,088	18,009	18,009
INDUSTRIAL											
Industrial Natural Gas Optimization	0	0	0	0	104	37	1,890	2,338	2,266	6,636	6,636
	0	0	0	0	104	37	1,890	2,338	2,266	6,636	6,636
DISCONTINUED/COMPLETED PROGRAMS											
Thermostat	0	0	0	0	0	232	148	18	1	399	399
	0	0	0	0	0	232	148	18	1	399	399
EFFICIENCY PROGRAMS SUBTOTAL	0	13	76	172	3,383	13,206	15,608	18,211	20,476	71,142	71,142
CUSTOMER SELF-GENERATION											
Bioenergy Optimization	0	0	0	0	0	0	13	8	0	21	21
	0	0	0	0	0	0	13	8	0	21	21
PROGRAMS SUBTOTAL	0	13	76	172	3,383	13,206	15,621	18,219	20,476	71,163	71,163
Support Costs	201	223	241	530	1,237	1,638	1,608	1,940	1,978	9,596	9,596
TOTAL RESOURCE COST OF PROGRAMS	201	235	317	703	4,620	14,845	17,229	20,159	22,455	80,759	80,759

Note: Subtotals may not be exact due to rounding
* Programs comprise the Commercial Building Envelope Program.

Utility Cost (1000s in 2009$)
Natural Gas Incentive Based Programs (Without Lower Income Furnace Replacement)

	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Cumulative Total 2009/10	Cumulative Total 2024/25
RESIDENTIAL											
Home Insulation	0	0	0	0	384	1,873	3,001	2,770	2,945	10,973	10,973
Lower Income*	0	0	0	0	80	0	165	206	737	1,189	1,189
HE Gas Furnace	0	0	0	0	593	1,342	2,137	3,188	1,531	8,792	8,792
New Homes	0	13	76	94	62	95	139	0	87	566	566
Water & Energy Saver	0	0	0	0	0	0	0	0	40	40	40
	0	13	76	94	1,120	3,310	5,443	6,164	5,341	21,561	21,561
DISCONTINUED/COMPLETED											
Thermostat	0	0	0	0	0	196	132	38	1	367	367
	0	0	0	0	0	196	132	38	1	367	367
RESIDENTIAL TOTAL	0	13	76	94	1,120	3,507	5,575	6,202	5,342	21,928	21,928
COMMERCIAL											
Commercial Insulation**	0	0	0	0	0	427	832	1,017	1,242	3,518	3,518
HVAC	0	0	0	0	107	616	1,669	1,389	1,120	4,900	4,900
Commercial Windows**	0	0	0	0	0	130	283	465	779	1,658	1,658
Commercial Building Optimization	0	0	0	0	77	233	159	158	234	862	862
Commercial Custom	0	0	0	0	0	0	0	0	140	140	140
New Buildings	0	0	0	0	0	0	0	144	108	252	252
Power Smart Shops	0	0	0	0	0	0	1	15	80	97	97
Power Smart Energy Manager	0	0	0	0	0	0	120	95	71	285	285
Commercial Kitchen Appliances	0	0	0	0	0	0	0	16	55	71	71
Spray Valves	0	0	0	0	0	130	56	123	27	335	335
Commercial Hot Water	0	0	0	0	0	0	0	0	22	22	22
City of Winnipeg Agreement	0	0	0	0	0	0	0	0	0	0	0
Commercial Clothes Washers	0	0	0	0	0	0	0	0	0	0	0
COMMERCIAL TOTAL	0	0	0	0	184	1,536	3,119	3,422	3,878	12,139	12,139
INDUSTRIAL											
Industrial Natural Gas Optimization	0	0	0	0	104	37	292	336	597	1,366	1,366
INDUSTRIAL TOTAL	0	0	0	0	104	37	292	336	597	1,366	1,366
EFFICIENCY PROGRAMS SUBTOTAL	0	13	76	94	1,408	5,080	8,986	9,961	9,817	35,433	35,433
CUSTOMER SELF-GENERATION											
Bioenergy Optimization	0	0	0	0	0	0	13	8	0	21	21
	0	0	0	0	0	0	13	8	0	21	21
PROGRAMS SUBTOTAL	0	13	76	94	1,408	5,080	8,999	9,969	9,817	35,455	35,455
Support Costs	201	223	241	530	1,237	1,638	1,608	1,940	1,978	9,596	9,596
UTILITY COST OF PROGRAMS	201	235	317	624	2,644	6,718	10,607	11,909	11,795	45,051	45,051

Note: Subtotals may not be exact due to rounding.
*Excludes Lower Income Furnace Replacement Expenditures.
** Programs comprise the Commercial Building Envelope Program.

Utility Costs - Lower Income Furnace Replacement (1000s in 2009$)
Natural Gas Incentive-Based Programs

	2008/09	2009/10	Cumulative Total 2009/10
LOWER INCOME EXPENDITURES			
Natural Gas Furnace Replacement	264	815	1,079
Total Expenditures	264	815	1,079

Utility Cost (1000s in 2009$)
Natural Gas Incentive Based Programs (With Lower Income Furnace Replacement)

	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Cumulative Total 2009/10	Cumulative Total 2024/25
RESIDENTIAL											
Home Insulation	0	0	0	0	384	1,873	3,001	2,770	2,945	10,973	10,973
Lower Income*	0	0	0	0	80	0	165	470	1,552	2,268	2,268
HE Gas Furnace	0	0	0	0	593	1,342	2,137	3,188	1,531	8,792	8,792
New Homes	0	13	76	94	62	95	139	0	87	566	566
Water & Energy Saver	0	0	0	0	0	0	0	0	40	40	40
	0	13	76	94	1,120	3,310	5,443	6,428	6,156	22,640	22,640
DISCONTINUED/COMPLETED											
Thermostat	0	0	0	0	0	196	132	38	1	367	367
	0	0	0	0	0	196	132	38	1	367	367
RESIDENTIAL TOTAL	0	13	76	94	1,120	3,507	5,575	6,466	6,157	23,007	23,007
COMMERCIAL											
Commercial Insulation**	0	0	0	0	0	427	832	1,017	1,242	3,518	3,518
HVAC	0	0	0	0	107	616	1,669	1,389	1,120	4,900	4,900
Commercial Windows**	0	0	0	0	0	130	283	465	779	1,658	1,658
Commercial Building Optimization	0	0	0	0	77	233	159	158	234	862	862
Commercial Custom	0	0	0	0	0	0	0	0	140	140	140
New Buildings	0	0	0	0	0	0	0	144	108	252	252
Power Smart Shops	0	0	0	0	0	0	1	15	80	97	97
Power Smart Energy Manager	0	0	0	0	0	0	120	95	71	285	285
Commercial Kitchen Appliances	0	0	0	0	0	0	0	16	55	71	71
Spray Valves	0	0	0	0	0	130	56	123	27	335	335
Commercial Hot Water	0	0	0	0	0	0	0	0	22	22	22
City of Winnipeg Agreement	0	0	0	0	0	0	0	0	0	0	0
Commercial Clothes Washers	0	0	0	0	0	0	0	0	0	0	0
COMMERCIAL TOTAL	0	0	0	0	184	1,536	3,119	3,422	3,878	12,139	12,139
INDUSTRIAL											
Industrial Natural Gas Optimization	0	0	0	0	104	37	292	336	597	1,366	1,366
INDUSTRIAL TOTAL	0	0	0	0	104	37	292	336	597	1,366	1,366
EFFICIENCY PROGRAMS SUBTOTAL	0	13	76	94	1,408	5,080	8,986	10,225	10,632	36,512	36,512
CUSTOMER SELF-GENERATION											
Bioenergy Optimization	0	0	0	0	0	0	13	8	0	21	21
	0	0	0	0	0	0	13	8	0	21	21
PROGRAMS SUBTOTAL	0	13	76	94	1,408	5,080	8,999	10,233	10,632	36,534	36,534
Support Costs	201	223	241	530	1,237	1,638	1,608	1,940	1,978	9,596	9,596
UTILITY COST OF PROGRAMS	201	235	317	624	2,644	6,718	10,607	12,173	12,610	46,130	46,130

Note: Subtotals may not be exact due to rounding.
* Includes Lower Income Furnace Replacement Expenditures.
** Programs comprise the Commercial Building Envelope Program.

Administration Cost (1000s in 2009$)
Natural Gas Incentive Based Programs

	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Cumulative Total 2009/10	Cumulative Total 2024/25
RESIDENTIAL											
Home Insulation	0	0	0	0	174	536	769	600	471	2,551	2,551
HE Gas Furnace	0	0	0	0	268	294	453	358	195	1,567	1,567
Lower Income	0	0	0	0	80	0	142	130	183	535	535
Water & Energy Saver	0	0	0	0	0	0	0	0	40	40	40
New Homes	0	13	76	77	21	31	50	0	15	283	283
	0	13	76	77	543	861	1,414	1,088	905	4,977	4,977
COMMERCIAL											
HVAC	0	0	0	0	107	288	299	253	347	1,293	1,293
Commercial Insulation*	0	0	0	0	0	76	76	174	176	502	502
Commercial Building Optimization	0	0	0	0	77	233	159	116	154	740	740
Commercial Windows*	0	0	0	0	0	83	86	123	140	432	432
New Buildings	0	0	0	0	0	0	0	144	108	252	252
Power Smart Shops	0	0	0	0	0	0	1	15	80	96	96
Power Smart Energy Manager	0	0	0	0	0	0	120	93	71	283	283
Commercial Custom	0	0	0	0	0	0	0	0	57	57	57
Commercial Kitchen Appliance	0	0	0	0	0	0	0	8	23	31	31
Commercial Hot Water	0	0	0	0	0	0	0	0	22	22	22
Spray Valves	0	0	0	0	0	53	31	26	17	127	127
City of Winnipeg Agreement	0	0	0	0	0	0	0	0	0	0	0
Commercial Clothes Washers	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	184	732	773	951	1,196	3,836	3,836
INDUSTRIAL											
Industrial Natural Gas Optimization	0	0	0	0	104	37	93	88	165	487	487
	0	0	0	0	104	37	93	88	165	487	487
DISCONTINUED/COMPLETED PROGRAMS											
Thermostat	0	0	0	0	0	112	95	18	1	226	226
	0	0	0	0	0	112	95	18	1	226	226
EFFICIENCY PROGRAMS SUBTOTAL	0	13	76	77	831	1,743	2,375	2,145	2,267	9,526	9,526
CUSTOMER SELF-GENERATION											
Bioenergy Optimization	0	0	0	0	0	0	13	8	0	21	21
	0	0	0	0	0	0	13	8	0	21	21
PROGRAMS SUBTOTAL	0	13	76	77	831	1,743	2,389	2,153	2,267	9,548	9,548
Support Costs	201	223	241	530	1,237	1,638	1,608	1,940	1,978	9,596	9,596
ADMINISTRATION COSTS OF PROGRAMS	201	235	317	607	2,067	3,381	3,997	4,093	4,245	19,144	19,144

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

Incentive Cost (1000s in 2009$)
Natural Gas Incentive Based Programs

	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Cumulative Total 2009/10	Cumulative Total 2024/25
RESIDENTIAL											
Home Insulation	0	0	0	0	210	1,337	2,232	2,170	2,474	8,422	8,422
Lower Income	0	0	0	0	0	0	23	342	1,369	1,735	1,735
HE Gas Furnace	0	0	0	0	326	1,048	1,685	2,830	1,336	7,225	7,225
New Homes	0	0	0	17	42	64	90	0	72	283	283
Water & Energy Saver	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	17	577	2,449	4,029	5,342	5,251	17,665	17,665
COMMERCIAL											
Commercial Insulation*	0	0	0	0	0	351	755	843	1,067	3,016	3,016
HVAC	0	0	0	0	0	328	1,370	1,136	773	3,607	3,607
Commercial Windows*	0	0	0	0	0	48	197	342	639	1,225	1,225
Commercial Custom	0	0	0	0	0	0	0	0	83	83	83
Commercial Building Optimization	0	0	0	0	0	0	0	42	80	122	122
Commercial Kitchen Appliance	0	0	0	0	0	0	0	8	32	40	40
Spray Valves	0	0	0	0	0	77	25	97	9	208	208
Power Smart Shops	0	0	0	0	0	0	0	0	1	1	1
City of Winnipeg Agreement	0	0	0	0	0	0	0	0	0	0	0
New Buildings	0	0	0	0	0	0	0	0	0	0	0
Power Smart Energy Manager	0	0	0	0	0	0	0	2	0	2	2
Commercial Clothes Washers	0	0	0	0	0	0	0	0	0	0	0
Commercial Hot Water	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	803	2,346	2,471	2,682	8,303	8,303
INDUSTRIAL											
Industrial Natural Gas Optimization	0	0	0	0	0	0	199	248	432	879	879
	0	0	0	0	0	0	199	248	432	879	879
DISCONTINUED/COMPLETED PROGRAMS											
Thermostat	0	0	0	0	0	84	37	20	0	141	141
	0	0	0	0	0	84	37	20	0	141	141
EFFICIENCY PROGRAMS SUBTOTAL	0	0	0	17	577	3,337	6,610	8,082	8,366	26,988	26,988
CUSTOMER SELF-GENERATION											
Bioenergy Optimization	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
PROGRAMS SUBTOTAL	0	0	0	17	577	3,337	6,610	8,082	8,366	26,988	26,988
Support Costs	0	0	0	0	0	0	0	0	0	0	0
INCENTIVE COSTS OF PROGRAMS	0	0	0	17	577	3,337	6,610	8,082	8,366	26,988	26,988

Note: Subtotals may not be exact due to rounding.
* Programs comprise the Commercial Building Envelope Program.

APPENDIX O

Electric Customer Service Initiatives - Utility Costs

Utility Costs (1000s in 2009$)
Electric Customer Service Initiatives

	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10
RESIDENTIAL										
Residential Earth Power	0	2	47	97	343	872	-92	71	207	160
ecoEnergy	0	0	0	0	-10	-42	71	163	-19	141
Solar HWT	0	0	0	0	0	0	0	0	0	7
Power Smart Residential Loan	45	76	20	9	0	1	9	-1	-6	-73
Subtotal	45	78	66	105	333	831	-12	232	182	236
DISCONTINUED/COMPLETED PROGRAMS										
PSEM	0	0	0	0	0	0	0	0	0	0
R2000	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	0	0	0	0	0
CSI PROGRAMS SUBTOTAL	45	78	66	105	333	831	-12	232	182	236

Note: Subtotals may not be exact due to rounding.

Utility Costs for Support, Basic Information Services & Customer Service Initiatives and Standards (1000s in 2009$)
Electric Customer Service Initiatives

	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Cumulative Total 2009/10
CUSTOMER SERVICE INITIATIVES																					
Customer Service Initiatives & Standards	0	0	0	0	0	0	0	0	0	0	45	78	66	105	333	831	-12	232	182	236	2,096
	0	0	0	0	0	0	0	0	0	0	45	78	66	105	333	831	-12	232	182	236	2,096
BASIC INFORMATION SERVICES																					
Basic Information Services	0	13	6	92	55	11	13	156	473	558	1,291	1,313	1,305	1,667	1,583	1,598	1,300	1,297	1,696	1,684	16,110
	0	13	6	92	55	11	13	156	473	558	1,291	1,313	1,305	1,667	1,583	1,598	1,300	1,297	1,696	1,684	16,110
Discontinued/Completed Basic Information Services	0	0	0	4	23	160	141	1	75	253	312	406	298	378	434	391	11	-4	0	0	2,884
	0	0	0	4	23	160	141	1	75	253	312	406	298	378	434	391	11	-4	0	0	2,884
SUPPORT COSTS																					
Power Smart Communications	9	698	1,494	1,064	520	687	648	566	490	696	622	173	507	463	898	616	588	615	1,122	858	13,333
Residential Retrofit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	43	33	124	73	82	368
Retrofit Demonstrations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	5	2	1	48
Integrated Plans/Targets	19	475	235	214	205	208	63	31	82	161	96	35	360	267	70	23	93	90	172	254	3,152
DSM Administration	206	210	178	130	95	116	184	72	40	100	130	186	303	208	236	208	208	159	247	206	3,421
DSM Tracking System	0	0	13	22	143	149	13	1	1	3	0	0	0	0	0	0	3	6	1	19	374
Commercial Audits	0	0	0	0	0	0	0	0	0	0	0	16	22	20	30	38	5	2	0	0	133
Energy Efficient Screening Studies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13
Power Smart Residential Support	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	28
Sustainability & Standards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	83	48	55	189	424
Power Smart for Business	0	0	140	137	87	50	0	0	0	0	0	0	0	0	0	84	155	211	198	196	1,258
Discontinued/Completed Support Costs	0	945	799	421	51	53	119	127	97	59	75	153	194	44	13	8	0	0	0	0	3,157
	234	2,327	2,858	1,988	1,100	1,263	1,027	797	709	1,018	923	563	1,386	1,002	1,259	1,108	1,169	1,261	1,869	1,846	25,708
TOTAL SUPPORT/CSIs/STANDARDS	234	2,340	2,864	2,084	1,178	1,434	1,181	955	1,256	1,830	2,571	2,360	3,055	3,152	3,609	3,929	2,468	2,786	3,747	3,766	46,798

Note: Subtotals may not be exact due to rounding.

APPENDIX P

Natural Gas Customer Service Initiatives - Utility Costs

Utility Costs (1000s in 2009$)
Natural Gas Customer Service Initiatives

		2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Cumulative Total 2009/10
RESIDENTIAL											
ecoEnergy		248	287	289	346	-10	637	489	-108	566	2,744
Solar Hot Water Tank		0	0	0	0	0	0	0	0	2	2
Residential Earth Power		0	0	0	0	0	0	0	0	0	0
Power Smart Residential Loan		431	112	50	-5	15	179	-22	-108	-655	-4
	Subtotal	679	398	339	341	5	816	467	-216	-88	2,742
DISCONTINUED/COMPLETED PROGRAMS											
PSEM		0	0	0	0	0	0	0	0	0	0
R2000		0	0	0	0	0	0	0	0	0	0
	Subtotal	0	0	0	0	0	0	0	0	0	0
CSI PROGRAMS SUBTOTAL		679	398	339	341	5	816	467	-216	-88	2,742

Note: Subtotals may not be exact due to rounding.

Utility Costs for Support, Basic Information Services & Customer Service Initiatives and Standards (1000s in 2009$)
Natural Gas Customer Service Initiatives

	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Cumulative Total 2009/10
CUSTOMER SERVICE INITIATIVES										
Customer Service Initiatives & Standards	679	398	339	341	5	816	467	-216	-88	2,742
	679	398	339	341	5	816	467	-216	-88	2,742
BASIC INFORMATION SERVICES										
Basic Information Services	173	196	214	484	512	665	459	512	483	3,699
	173	196	214	484	512	665	459	512	483	3,699
Discontinued/Completed Basic Information Services	0	0	0	0	4	26	-10	0	0	20
	0	0	0	0	4	26	-10	0	0	20
SUPPORT COSTS										
Power Smart Communications	0	0	0	0	332	392	410	918	702	2,755
Residential Retrofit	0	0	0	0	0	62	230	135	153	580
Retrofit Demonstrations	0	0	0	0	75	0	5	0	0	80
Integrated Plans/Targets	0	0	0	0	72	62	60	141	208	543
DSM Administration	0	0	0	0	138	139	106	202	168	753
DSM Tracking System	0	0	0	0	0	2	4	1	16	23
Commercial Audits	0	0	0	0	16	19	10	0	1	47
Energy Efficient Screening Studies	0	0	0	0	0	0	0	0	8	8
Power Smart Residential Support	0	0	0	0	0	0	0	0	42	42
Sustainability & Standards	0	0	0	0	82	153	89	102	155	581
Power Smart for Business	0	0	0	0	0	103	141	132	131	506
Discontinued/Completed Support Costs	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	715	933	1,055	1,631	1,584	5,917
TOTAL SUPPORT COSTS & CSIs & STANDARDS	853	595	553	825	1,236	2,441	1,970	1,927	1,978	12,378

Note: Subtotals may not be exact due to rounding.