

MINNESOTA
CONSERVATION IMPROVEMENT PROGRAM
ENERGY AND CARBON DIOXIDE SAVINGS REPORT
FOR 2008-2009

Prepared by Minnesota Office of Energy Security
Pursuant to Minnesota Statutes §216B.241, subd. 1c(g)



March 23, 2011

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I. INTRODUCTION

The Office of Energy Security (OES) submits this report in fulfillment of Minn. Statutes §216B.241, subd. 1c(g), which requires the Commissioner of Commerce to produce and make publicly available a report on the annual energy savings and estimated carbon dioxide reductions achieved by energy conservation improvement programs for the two most recent years for which data are available. This report updates the previously reported figures for 2008 and provides new figures for 2009.

The Minnesota Energy Conservation Improvement Program (CIP) is a utility-administered program with regulatory oversight by the OES. State law requires Minnesota natural gas and electric utilities to invest a portion of their revenues in conservation improvement programs that promote energy efficient technologies and practices to their customers. The OES reviews and approves utility CIP filings to ensure that energy savings are calculated accurately, statutory requirements are met, and programs are cost-effective (i.e., the avoided costs of energy consumption and infrastructure outweigh the costs of delivering the programs).

Energy conservation improvements defer costly investments in generation, transmission and distribution infrastructure and are a critical part of Minnesota's efforts to reduce greenhouse gases. In 2008 and 2009, Minnesota's utilities invested over \$287 million in CIPs, achieving 1.2 million megawatt-hours (MWh) of annual electricity savings and 3.4 million thousand cubic feet (MCF) of natural gas savings, for a total of approximately 1.3 million tons of avoided carbon dioxide emissions.

II. METHODOLOGY

A. DATA COLLECTION

The data for this report were compiled from annual reports filed by Minnesota electric and natural gas utilities. Each investor-owned utility files an annual status report with the OES that summarizes its CIP savings results and expenditures for the previous year. The OES reviews the reports to ensure that savings were calculated appropriately and projects were cost-effective.

Electric cooperatives and municipal utilities were previously required to file a status report every three years. However, the OES is transitioning to an annual reporting requirement for these organizations to enable accurate measurement of statewide annual energy and carbon savings. In order to streamline the reporting process, as well as establish a readily-accessible, single repository of utility CIP data, the OES awarded a grant to Energy Platforms, LLC, a Minnesota-based software company, to develop a new reporting and measurement tool called Energy Savings Platform. An early prototype of the Energy Savings Platform was used to collect 2008 and 2009 data from Minnesota's 173 electric cooperatives and municipal utilities. Once the data were collected, OES staff reviewed the data for consistency with standard savings formulas and followed up individually with utilities to correct invalid results.

B. BASIS OF ENERGY SAVINGS

The total energy savings reported by each utility are based on a combination of pre-approved, per unit savings formulas for common energy efficiency measures¹ and custom engineering calculations for projects that are relatively complex and/or involve multiple, interactive energy efficiency measures. The pre-approved, per unit savings formulas are established for each utility as part of the CIP plan review process. There is no pre-approval process for custom projects, but OES staff audit a portion of custom projects completed each year to ensure that sound engineering methods are used. In addition, utilities are required to implement a measurement and verification (M&V) plan including sub-metering or bill analysis to verify the calculated savings for qualifying large custom projects. Total M&V costs per qualifying project are generally limited to 10 percent of the value of the annual savings.

Note that all savings reported herein are first-year savings produced by new measure installations. Thus, the savings reported for a given year represent only the *incremental* savings added that year through new installations and do not include ongoing savings from measures installed in prior years.

C. CARBON DIOXIDE SAVINGS CALCULATIONS

The annual carbon dioxide (CO₂) savings reported herein represent avoided emissions as a result of utility conservation improvements. Similar to the annual energy savings reported, the annual CO₂ savings are *incremental* rather than *cumulative*.

Electric CIP CO₂ savings are estimated by multiplying annual energy savings by a regional average electricity generation emissions factor reported by the Minnesota Pollution Control Agency, equal to 1,823 pounds of CO₂ per MWh of electricity generated.² This figure is significantly higher than the US average CO₂ emissions factor of 1,329 pounds of CO₂ per MWh due to the higher concentration of coal-fired power plants in the Upper Midwest. Natural gas CIP CO₂ savings are estimated using the standard emissions factor of 121 pounds of CO₂ per MCF of natural gas.

¹ Common residential measures include compact fluorescent lighting, high efficiency furnaces and air-conditioners, and geothermal heat pumps. Common commercial/industrial measures include high efficiency lighting, high efficiency chillers and boilers, and premium efficiency electric motors for industrial applications.

² The Minnesota Pollution Control Agency provides the Minnesota Public Utilities Commission and Minnesota Department of Commerce with updated regional average emission rates in Docket No. E,G999/CI-00-1343. The CO₂ emission rate was last updated on March 17, 2009.

III. RESULTS

**Table 1: Total Electric CIP Savings and Spending by Year, 2006-2009³
(Incremental First-Year Savings)**

	MWh Savings	Spending	CO2 Savings (tons)
2006	411,999	\$82,245,240	375,537
2007	468,070	\$91,239,426	426,646
2008	597,288	\$102,010,572	544,428
2009	648,163	\$144,554,140	590,801

**Table 2: Total Natural Gas CIP Savings and Spending by Year, 2006-2009⁴
(Incremental First-Year Savings)**

	MCF Savings	Spending	CO2 Savings (tons)
2006	2,095,047	\$16,266,993	126,750
2007	1,917,144	\$16,406,430	115,987
2008	1,563,496	\$18,125,110	94,592
2009	1,843,347	\$22,771,640	111,522

³ The 2008 electric results have been revised from the previously reported figures. At the time of the 2010 Energy and Carbon Dioxide Savings Report, 2008 actuals were not available from cooperatives and municipal utilities. Therefore, planning figures were used as a proxy. The increase in 2008 reported savings (597,288 MWh versus 548,467 MWh in the 2010 report) primarily reflects higher than expected savings.

⁴ The 2008 natural gas results have been revised from the previously reported figures. At the time of the 2010 Energy and Carbon Dioxide Savings Report, the City of Duluth and Greater Minnesota Gas had not yet reported their 2008 actuals. The 2008 savings totals herein (1,563,496 MCF versus 1,571,593 MCF reported in the 2010 report) reflect the inclusion of actuals from these organizations.

**Table 3: CIP Electric Savings and Spending by Organization, 2008
(Incremental First-Year Savings)**

Organization	kWh Savings	Spending	CO2 Savings (tons)
Investor-Owned Utilities			
Alliant Energy	9,698,758	\$2,161,420	8,840
Minnesota Power	48,845,282	\$4,764,631	44,522
Otter Tail Power	15,994,719	\$2,345,877	14,579
Xcel Energy	331,024,729	\$50,707,871	301,729
Totals - Investor-Owned Utilities	405,563,488	\$59,979,799	369,671
Cooperative CIP Aggregators			
Dairyland Power Coop	9,315,124	\$3,127,429	8,491
East River Electric Power Coop	3,816,170	\$311,826	3,478
Great River Energy/Elk River Municipal	107,565,903	\$23,009,820	98,046
Minnkota Power Coop/Northern Municipal Power Agency	5,197,902	\$2,748,928	4,738
Totals - Cooperative CIP Aggregators	125,895,099	\$29,198,003	114,753
Municipal CIP Aggregators			
Central MN Municipal Power Agency (CMMPA)	3,918,687	\$728,717	3,572
Minnesota Municipal Power Agency (MMPA) - 8 of 11 members ⁵	1,685,979	\$788,391	1,537
Missouri River Energy Services	11,790,335	\$2,639,257	10,747
Owatonna/Austin/Rochester Public Utilities (Triad)	17,820,149	\$2,785,565	16,243
Southern MN Municipal Power Agency (SMMPA) - 15 of 18 members ⁶	8,405,434	\$2,171,383	7,662
Totals - Municipal CIP Aggregators	43,620,584	\$9,113,314	39,760
Other Cooperatives			
Minnesota Valley Coop Light & Power	1,752,902	\$330,661	1,598
Sioux Valley Southwestern Electric	589,156	\$181,233	537
Totals - Other Cooperatives	2,342,058	\$511,894	2,135

⁵ Does not include Anoka, East Grand Forks, and Shakopee municipal utilities, which are members of MMPA but operate as independent entities under CIP.

⁶ Does not include Owatonna, Austin, and Rochester municipal utilities, which are members of SMMPA but function as a distinct CIP aggregator independent of SMMPA.

Table 3 (Continued)

Organization	kWh Savings	Spending	CO2 Savings (tons)
Other Municipals			
Alvarado, City of	47	\$12,503	0
Anoka, City of (MMPA member)	1,050,225	\$371,626	957
Brainerd Public Utilities	3,681,311	\$261,103	3,356
Buhl Public Utilities	1	\$6,000	0
East Grand Forks Water & Light Dept. (MMPA member)	1,205,920	\$533,076	1,099
Ely Utilities Commission	54,278	\$11,647	49
Grand Rapids Public Utilities Commission	2,102,288	\$219,093	1,916
Hibbing Public Utilities Commission	611,303	\$127,303	557
Hutchinson Utilities Commission	4,276,634	\$436,022	3,898
Kandiyohi, City of	220	\$1,168	0
Lake Crystal Municipal Utilities	233,440	\$34,978	213
Madelia Municipal Light & Power	20,274	\$35,719	18
Mountain Iron Water & Light Dept	245,649	\$23,318	224
New Ulm Public Utilities	628,906	\$275,320	573
Nielsville, City of	2,857	\$856	3
Proctor Public Utilities	86,495	\$26,066	79
Shakopee Public Utilities (MMPA member)	4,838,611	\$453,890	4,410
Spring Grove, City of	2,832	\$10,389	3
Two Harbors, City of	94,473	\$21,622	86
Warroad Municipal Light & Power	4,936	\$23,757	4
Willmar Municipal Utilities	725,625	\$322,107	661
Totals - Other Municipals	19,866,325	\$3,207,562	18,108
TOTALS - COOPS & MUNICIPALS	191,724,066	\$42,030,773	174,756
TOTALS - ELECTRIC UTILITIES	597,287,554	\$102,010,572	544,428

**Table 4: CIP Natural Gas Savings and Spending by Organization, 2008
(Incremental First-Year Savings)**

Organization	MCF Savings	Spending	CO2 Savings (tons)
Investor-Owned Utilities			
Alliant Energy	18,466	\$360,441	1,117
CenterPoint Energy	827,339	\$8,422,819	50,054
Great Plains Natural Gas	9,524	\$256,468	576
Greater Minnesota Gas	1,141	\$8,682	69
Minnesota Energy Resources-NMU	9,492	\$396,042	574
Minnesota Energy Resources-PNG	55,025	\$1,429,342	3,329
Xcel Energy	613,134	\$6,423,487	37,095
Totals - Investor-Owned Utilities	1,534,121	\$17,297,281	92,814
Municipal Aggregators			
Owatonna/Austin Public Utilities	22,723	\$352,183	1,375
Other Municipals			
Duluth Public Works and Utilities	1,886	\$405,501	114
Hutchinson Utilities Commission	4,766	\$70,145	288
Totals - Other Municipals	6,652	\$475,646	402
TOTALS - MUNICIPALS	29,375	\$827,829	1,777
TOTALS - GAS UTILITIES	1,563,496	\$18,125,110	94,592

**Table 5: CIP Electric Savings and Spending by Organization, 2009
(Incremental First-Year Savings)**

Organization	kWh Savings	Spending	CO2 Savings (tons)
Investor-Owned Utilities			
Alliant Energy	8,648,648	\$2,213,009	7,883
Minnesota Power	52,897,731	\$5,483,230	48,216
Otter Tail Power	35,697,549	\$4,071,907	32,538
Xcel Energy	342,205,073	\$57,885,077	311,920
Totals - Investor-Owned Utilities	439,449,001	\$69,653,223	400,558
Cooperative CIP Aggregators			
Dairyland Power Coop	5,077,722	\$3,469,462	4,628
East River Electric Power Coop	5,540,912	\$323,683	5,051
Great River Energy/Elk River Municipal	105,231,018	\$54,033,534	95,918
Minnkota Power Coop/Northern Municipal Power Agency	7,556,870	\$2,687,501	6,888
Totals - Cooperative CIP Aggregators	123,406,522	\$60,514,179	112,485
Municipal CIP Aggregators			
Central MN Municipal Power Agency (CMMPA)	3,230,103	\$980,357	2,944
Minnesota Municipal Power Agency (MMPA) - 8 of 11 members ⁷	2,793,596	\$911,609	2,546
Missouri River Energy Services	16,525,989	\$3,000,895	15,063
Owatonna/Austin/Rochester Public Utilities (Triad)	26,189,662	\$3,565,242	23,872
Southern MN Municipal Power Agency (SMMPA) - 15 of 18 members ⁸	12,733,092	\$2,393,812	11,606
Totals - Municipal CIP Aggregators	61,472,442	\$10,851,915	56,032
Other Cooperatives			
Minnesota Valley Coop Light & Power	3,279,922	\$337,432	2,990
Sioux Valley Southwestern Electric	1,081,832	\$96,276	986
Totals - Other Cooperatives	4,361,754	\$433,708	3,976

⁷ Does not include Anoka, East Grand Forks, and Shakopee municipal utilities, which are members of MMPA but operate as independent entities under CIP.

⁸ Does not include Owatonna, Austin, and Rochester municipal utilities, which are members of SMMPA but function as a distinct CIP aggregator independent of SMMPA.

Table 5 (Continued)

Organization	kWh Savings	Spending	CO2 Savings (tons)
Other Municipals			
Alvarado, City of	47	\$6,352	0
Anoka, City of (MMPA Member)	754,474	\$342,585	688
Brainerd Public Utilities	3,535,768	\$235,724	3,223
Buhl Public Utilities	2	\$6,600	0
East Grand Forks Water & Light Dept. (MMPA Member)	942,551	\$387,671	859
Ely Utilities Commission	221,011	\$24,159	201
Grand Rapids Public Utilities Commission	1,360,372	\$201,863	1,240
Hibbing Public Utilities Commission	290,582	\$118,520	265
Hutchinson Utilities Commission	4,260,967	\$464,382	3,884
Kandiyohi, City of	220	\$1,329	0
Lake Crystal Municipal Utilities	216,157	\$36,515	197
Madelia Municipal Light & Power	20,444	\$24,922	19
Mountain Iron Water & Light Dept	269,412	\$64,566	246
New Ulm Public Utilities	1,401,235	\$266,547	1,277
Nielsville, City of	2,857	\$897	3
Proctor Public Utilities	105,056	\$30,048	96
Shakopee Public Utilities (MMPA Member)	4,906,570	\$467,152	4,472
Spring Grove, City of	6,030	\$14,688	5
Two Harbors, City of	315,446	\$27,760	288
Warroad Municipal Light & Power	2,562	\$28,993	2
Willmar Municipal Utilities	861,727	\$349,842	785
Totals - Other Municipals	19,473,490	\$3,101,115	17,750
TOTALS - COOPS & MUNICIPALS	208,714,208	\$74,900,917	190,243
TOTALS - ELECTRIC UTILITIES	648,163,209	\$144,554,140	590,801

**Table 6: CIP Natural Gas Savings and Spending by Organization, 2009
(Incremental First-Year Savings)**

Organization	MCF Savings	Spending	CO2 Savings (tons)
Investor-Owned Utilities			
Alliant Energy	25,871	\$695,978	1,565
CenterPoint Energy	938,799	\$10,117,898	56,797
Great Plains Natural Gas	7,975	\$186,584	482
Greater Minnesota Gas	1,305	\$9,150	79
Minnesota Energy Resources-NMU	20,727	\$632,670	1,254
Minnesota Energy Resources-PNG	112,842	\$2,490,089	6,827
Xcel Energy	670,120	\$7,682,998	40,542
Totals - Investor-Owned Utilities	1,777,639	\$21,815,367	107,547
Municipal Aggregators			
Owatonna/Austin Public Utilities	39,927	\$420,041	2,416
Other Municipals			
Duluth Public Works and Utilities	7,092	\$455,552	429
Hutchinson Utilities Commission	18,689	\$80,680	1,131
Totals - Other Municipals	25,781	\$536,232	1,560
TOTALS - MUNICIPALS	65,708	\$956,273	3,975
TOTALS - GAS UTILITIES	1,843,347	\$22,771,640	111,522

Table 7: CIP Spending by Customer Segment, Electric Investor-Owned Utilities

	Commercial/Industrial	Residential	General/Other	Total
2008	\$39,966,809	\$12,654,274	\$7,358,716	\$59,979,799
2009	\$46,472,657	\$15,986,958	\$7,193,608	\$69,653,223
biennium	\$86,439,466	\$28,641,232	\$14,552,324	\$129,633,022

Table 8: CIP Savings (kWh) by Customer Segment, Electric Investor-Owned Utilities

	Commercial/Industrial	Residential	General/Other	Total
2008	356,468,438	49,095,050	0	405,563,488
2009	370,259,928	69,189,073	0	439,449,001
biennium	726,728,366	118,284,123	0	845,012,489

Figure 1: Percent Spending and Savings by Customer Segment, Electric Investor-Owned Utilities

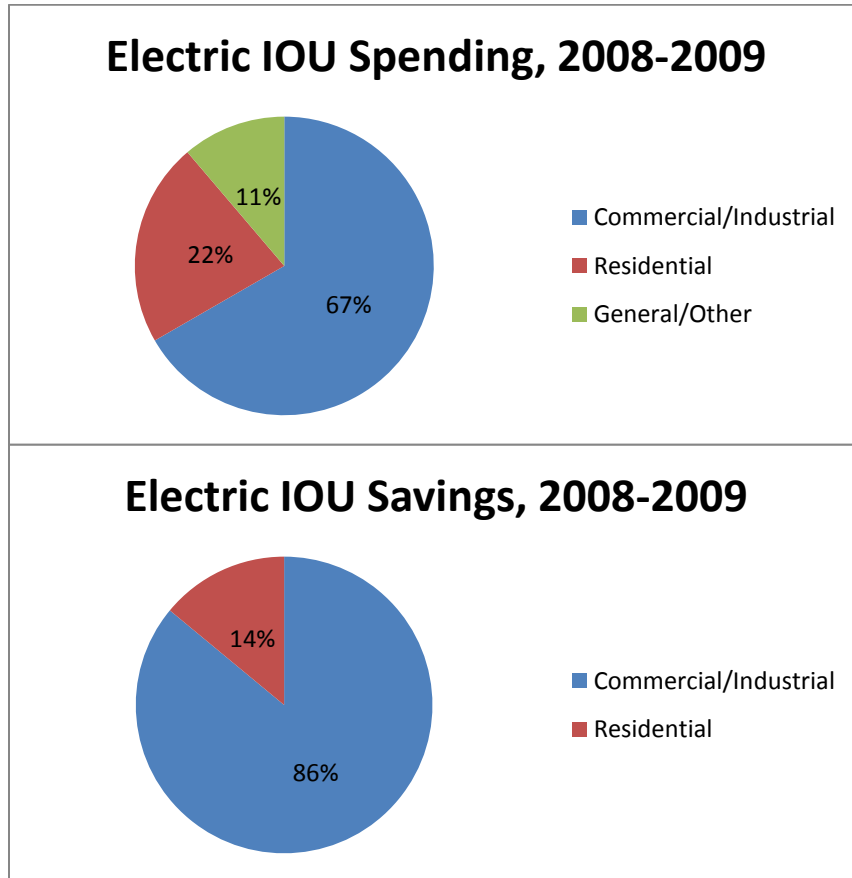


Table 9: CIP Spending by Customer Segment, Electric Municipal Utilities

	Commercial/Industrial	Residential	General/Other	Total
2008	\$4,799,512	\$6,582,898	\$2,243,115	\$13,625,524
2009	\$5,774,157	\$7,008,454	\$2,457,407	\$15,240,018
biennium	\$10,573,669	\$13,591,352	\$4,700,521	\$28,865,542

Table 10: CIP Savings (kWh) by Customer Segment, Electric Municipal Utilities

	Commercial/Industrial	Residential	General/Other	Total
2008	45,762,622	19,748,336	1,643,126	67,154,084
2009	58,000,039	23,513,252	2,119,473	83,632,764
biennium	103,762,661	43,261,588	3,762,599	150,786,848

Figure 2: Percent Spending and Savings by Customer Segment, Electric Municipal Utilities

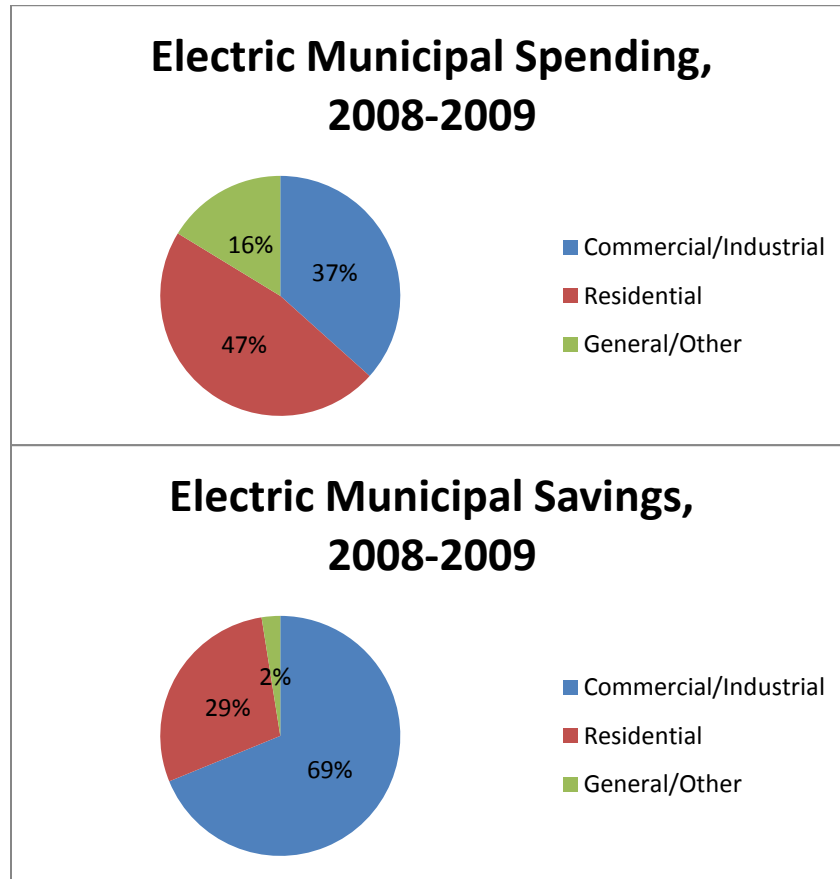


Table 11: CIP Spending by Customer Segment, Electric Cooperatives

	Commercial/Industrial	Residential	General/Other	Total
2008	\$4,635,199	\$20,650,804	\$3,119,247	\$28,405,249
2009	\$5,060,541	\$23,255,209	\$31,345,150	\$59,660,900
biennium	\$9,695,740	\$43,906,012	\$34,464,397	\$88,066,149

Table 12: CIP Savings (kWh) by Customer Segment, Electric Cooperatives

	Commercial/Industrial	Residential	General/Other	Total
2008	74,978,447	48,191,025	1,400,510	124,569,982
2009	40,842,676	65,154,997	19,083,771	125,081,444
biennium	115,821,123	113,346,022	20,484,281	249,651,426

Figure 3: Percent Spending and Savings by Customer Segment, Electric Cooperatives

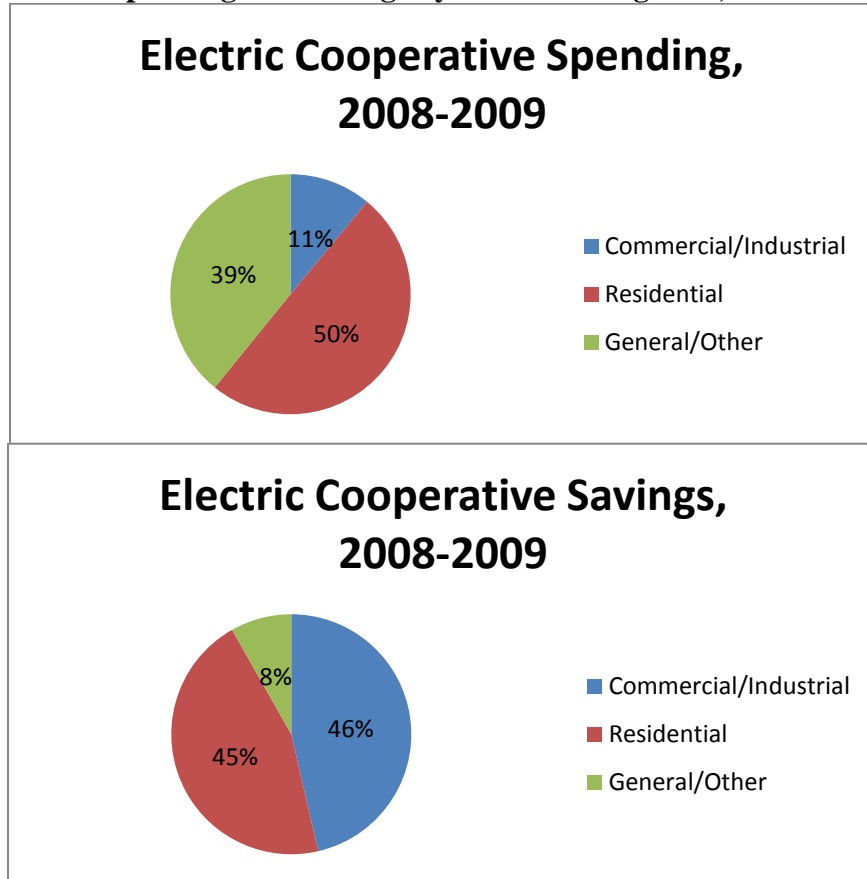


Table 13: CIP Spending by Customer Segment, All Electric Utilities

	Commercial/Industrial	Residential	General/Other	Total
2008	\$49,401,519	\$39,887,975	\$12,721,078	\$102,010,572
2009	\$57,307,355	\$46,250,621	\$40,996,164	\$144,554,140
biennium	\$106,708,875	\$86,138,596	\$53,717,242	\$246,564,713

Table 14: CIP Savings (kWh) by Customer Segment, All Electric Utilities

	Commercial/Industrial	Residential	General/Other	Total
2008	477,209,507	117,034,411	3,043,636	597,287,554
2009	469,102,643	157,857,322	21,203,244	648,163,209
biennium	946,312,150	274,891,733	24,246,880	1,245,450,763

Figure 4: Percent Spending and Savings by Customer Segment, All Electric Utilities

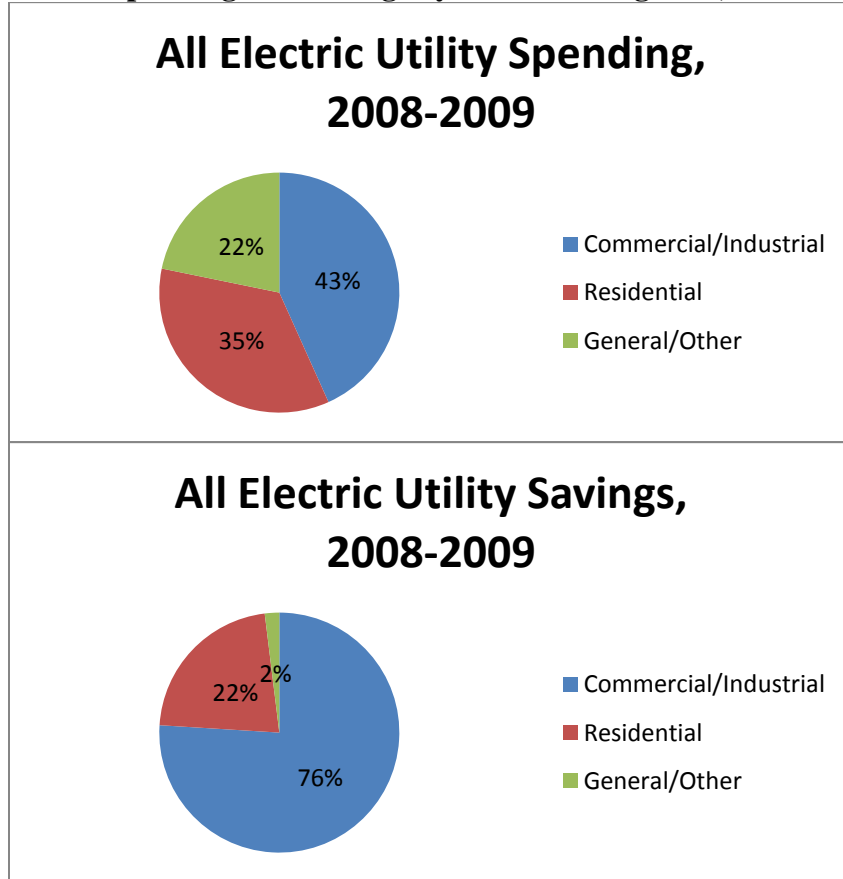


Table 15: CIP Spending by Customer Segment, Investor-Owned Natural Gas Utilities

	Commercial/Industrial	Residential	General/Other	Total
2008	\$6,496,378	\$8,676,705	\$2,124,198	\$17,297,281
2009	\$7,944,767	\$11,449,076	\$2,421,524	\$21,815,367
biennium	\$14,441,145	\$20,125,781	\$4,545,722	\$39,112,648

Table 16: CIP Savings (MCF) by Customer Segment, Investor-Owned Natural Gas Utilities

	Commercial/Industrial	Residential	General/Other	Total
2008	1,155,948	378,173	0	1,534,121
2009	1,192,646	584,993	0	1,777,639
biennium	2,348,594	963,166	0	3,311,760

Figure 5. Percent Spending and Savings by Customer Segment, Investor-Owned Natural Gas Utilities

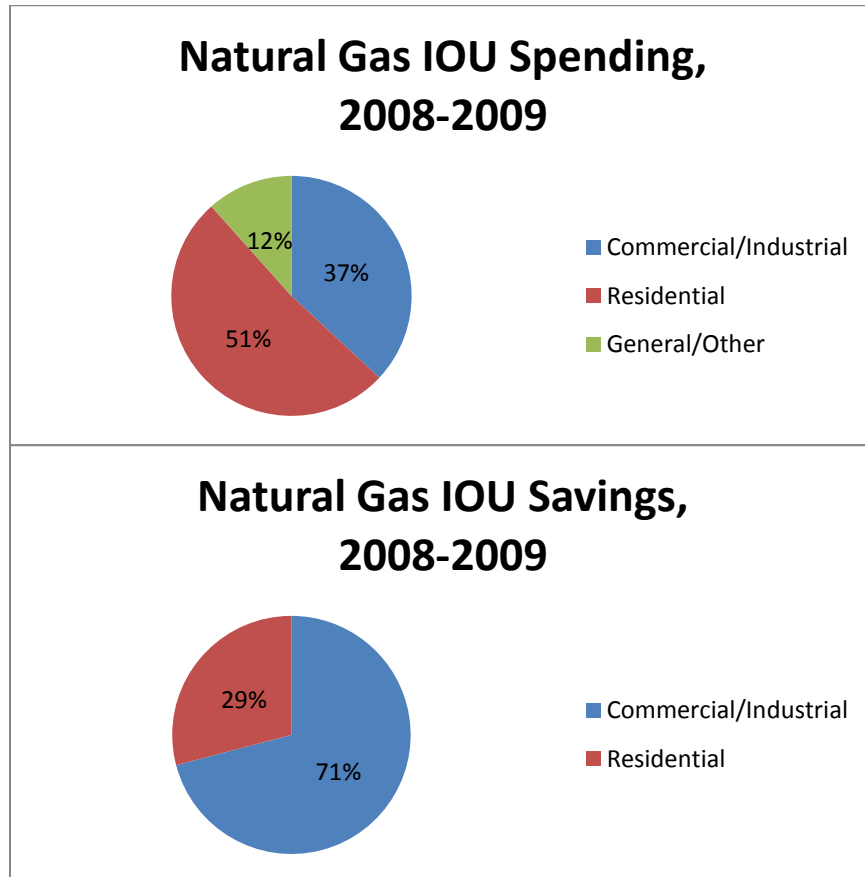


Table 17: CIP Spending by Customer Segment, Municipal Natural Gas Utilities

	Commercial/Industrial	Residential	General/Other	Total
2008	\$114,782	\$655,555	\$57,492	\$827,829
2009	\$109,143	\$787,917	\$59,213	\$956,273
biennium	\$223,925	\$1,443,472	\$116,705	\$1,784,102

Table 18: CIP Savings by Customer Segment, Municipal Natural Gas Utilities

	Commercial/Industrial	Residential	General/Other	Total
2008	17,450	11,677	248	29,375
2009	31,441	34,267	0	65,708
biennium	48,891	45,944	248	95,083

Figure 6: Percent Spending and Savings by Customer Segment, Municipal Natural Gas Utilities

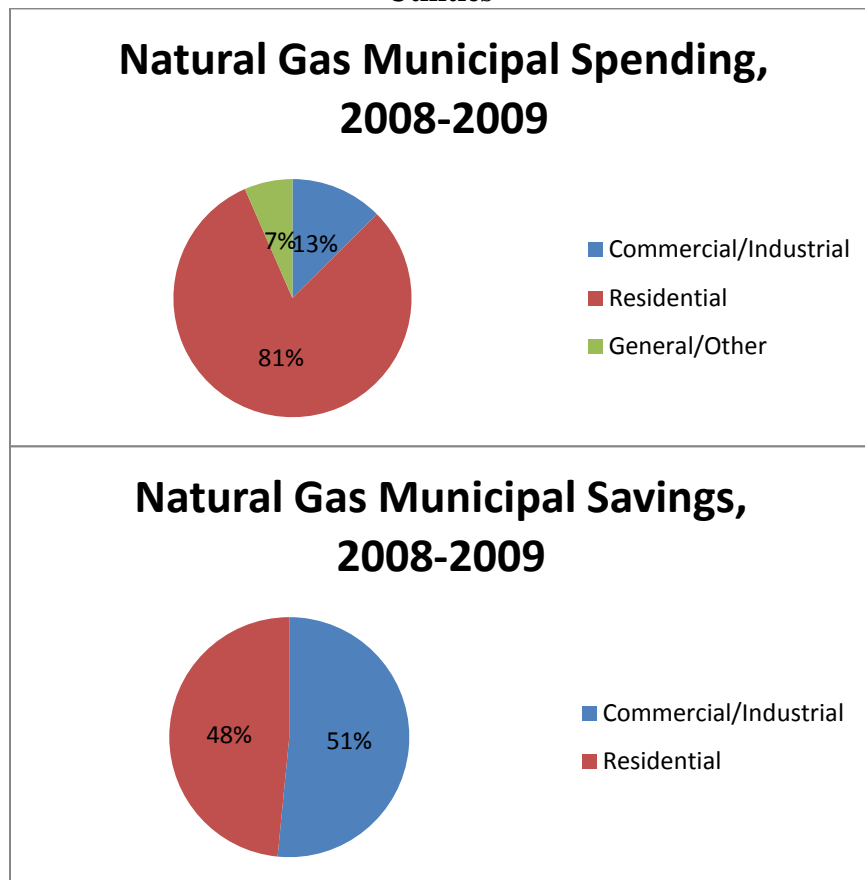


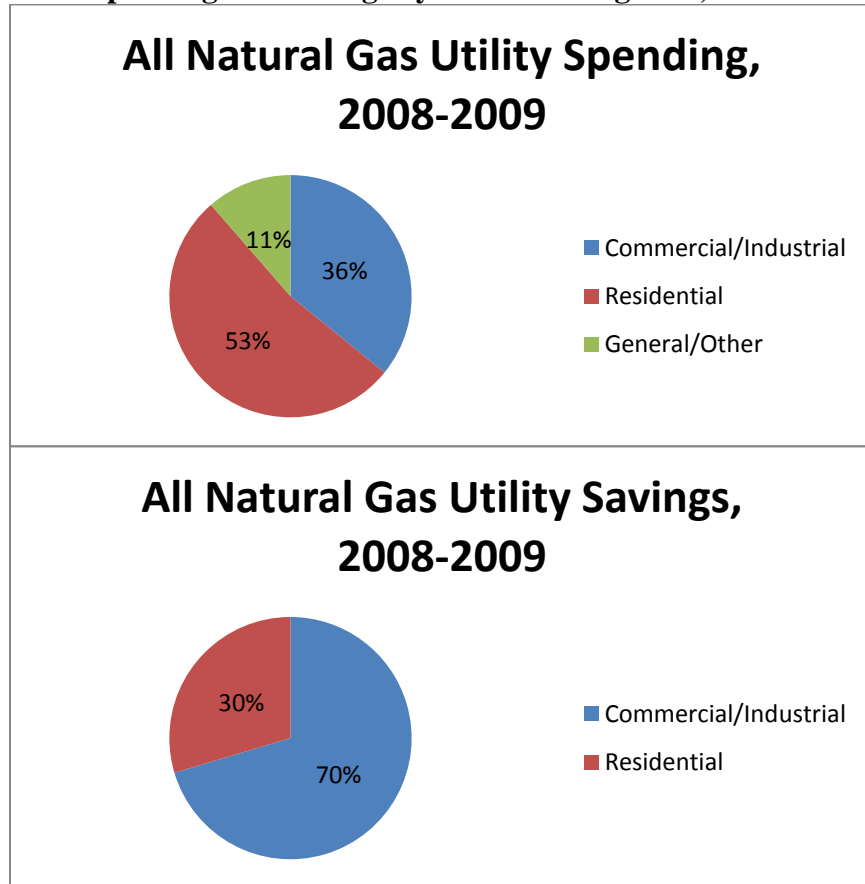
Table 19: CIP Spending by Customer Segment, All Natural Gas Utilities

	Commercial/Industrial	Residential	General/Other	Total
2008	\$6,611,160	\$9,332,260	\$2,181,690	\$18,125,110
2009	\$8,053,910	\$12,236,993	\$2,480,737	\$22,771,640
biennium	\$14,665,070	\$21,569,253	\$4,662,427	\$40,896,750

Table 20: CIP Savings (MCF) by Customer Segment, All Natural Gas Utilities

	Commercial/Industrial	Residential	General/Other	Total
2008	1,173,398	389,850	248	1,563,496
2009	1,224,087	619,260	0	1,843,347
biennium	2,397,485	1,009,110	248	3,406,843

Figure 7: Percent Spending and Savings by Customer Segment, All Natural Gas Utilities



APPENDIX A. Electric Municipal Power Agency Membership

Central Minnesota Municipal Power Agency (CMMPA)

12 members: Blue Earth, Delano, Fairfax, Glencoe, Granite Falls, Janesville, Kasson, Kenyon, Mountain Lake, Sleepy Eye, Springfield, and Windom.

Minnesota Municipal Power Agency (MMPA)

11 members: Anoka, Arlington, Brownton, Buffalo, Chaska, East Grand Forks, LeSeur, N. St. Paul, Olivia, Shakopee and Winthrop.

Anoka, East Grand Forks, and Shakopee operate as independent entities under CIP.

Missouri River Energy Services (MRES)

24 Minnesota members: Adrian, Alexandria, Barnesville, Benson, Breckenridge, Detroit Lakes, Elbow Lake, Henning, Hutchinson, Jackson, Luverne, Lake Park, Lakefield, Madison, Marshall, Melrose, Moorhead, Ortonville, St. James, Sauk Centre, Staples, Wadena, Westbrook, and Worthington.

Northern Municipal Power Agency (NMPA)

10 Minnesota members: Bagley, Baudette, Fosston, Halstad, Hawley, Roseau, Stephen, Thief River Falls, Warroad, and Warren.

NMPA aggregates its CIP programs with Minnkota Power Cooperative.

Southern Minnesota Municipal Power Agency (SMMPA)

18 members: Austin, Blooming Prairie, Fairmont, Grand Marais, Lake City, Litchfield, Mora, New Prague, North Branch, Owatonna, Preston, Princeton, Redwood Falls, Rochester, Spring Valley, St. Peter, Waseca, and Wells.

Austin, Owatonna, and Rochester operate as a distinct entity (the Triad) under CIP.

APPENDIX B. Generation and Transmission Cooperative Membership

Dairyland Power Cooperative

3 Minnesota members: Freeborn-Mower Cooperative Services, Peoples Cooperative Service, and Tri-County Electric Cooperative.

East River Electric Power Cooperative

3 Minnesota members: Lyon-Lincoln Electric Cooperative, Renville-Sibley Cooperative Power Association, and Traverse Electric Cooperative.

Great River Energy

28 members: Agralite Electric Cooperative, Arrowhead Electric Cooperative, BENCO Electric Cooperative, Brown County Electric Association, Connexus Energy, Cooperative Light & Power, Crow Wing Power, Dakota Electric Association, East Central Energy, Federated Rural Electric Association, Goodhue County Cooperative Electric Association, Itasca-Mantrap Cooperative Electric Association, Kandiyohi Power Cooperative, Lake Country Power, Lake Region Electric Cooperative, McLeod Cooperative Power Association, Meeker Cooperative, Mille Lacs Energy Cooperative, Minnesota Valley Electric Cooperative, Nobles Cooperative Electric, North Itasca Electric Cooperative, Redwood Electric Cooperative, Runestone Electric Association, South Central Electric Association, Stearns Electrical Association, Steele-Waseca Cooperative Electric, Todd-Wadena Electric Cooperative, and Wright-Hennepin Cooperative Electric Association.

Elk River Municipal Utilities is also aggregated with Great River Energy's CIP totals.

Minnkota Power Cooperative

8 Minnesota members: Beltrami Electric Cooperative, Clearwater-Polk Electric Cooperative, North Star Electric Cooperative, PKM Electric Cooperative, Red River Valley Cooperative Power Association, Red Lake Electric Cooperative, Roseau Electric Cooperative, and Wild Rice Electric Cooperative.