414 Nicollet Mall
Minneapolis, MN 55401

March 30, 2018

Daniel P. Wolf **—Via Electronic Filing—**
Executive Secretary
Minnesota Public Utilities Commission
121 Seventh Place East, Suite 350
St. Paul, MN 55101-2147

Re: PETITION
2018/2019 ELECTRIC CIP ADJUSTMENT FACTOR
DOCKET NO. E002/M-18-___

Dear Mr. Wolf:

Enclosed for filing is the Petition of Northern States Power Company requesting approval of our 2017 electric Conservation Improvement Program (CIP) Tracker account, financial incentive on 2017 performance, and 2018/2019 electric CIP Adjustment Factor.

We have electronically filed this document with the Minnesota Public Utilities Commission, and a Summary of the filing has been served on the parties on the attached service list. Please contact Aaron Tinjum at aaron.j.tinjum@xcelenergy.com or (612) 342-8967 if you have any questions regarding this filing.

Sincerely,

/s/

SHAWN WHITE
MANAGER
DSM REGULATORY STRATEGY AND PLANNING

Enclosures
c: Service List

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Nance Lange	Chair
Dan Lipschultz	Commissioner
John Tuma	Commissioner
Matthew Schuerger	Commissioner
Katie Sieben	Commissioner

IN THE MATTER OF THE PETITION OF NORTHERN STATES POWER COMPANY FOR APPROVAL OF AN ELECTRIC CONSERVATION IMPROVEMENT PROGRAM ADJUSTMENT FACTOR

DOCKET NO. E002/M-18-___

PETITION

OVERVIEW

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission this Petition for approval of its electric Conservation Improvement Program Adjustment Factor for 2018-2019.

Specifically, we request that the Commission:

- Approve the Company's 2017 electric CIP Tracker account;
- Approve the electric incentives earned for 2017 program performance; and
- Approve the proposed 2018/2019 electric CIP Adjustment Factor of $0.001730 per kWh.

In 2017, our electric portfolio surpassed the 1.5 percent energy savings target for the sixth year in a row, achieving approximately 658 GWh of electric savings or 2.27 percent of sales, 139 MW of demand savings, and generating approximately $222 million in net benefits for customers. We achieved 152 percent of our approved savings goal for 2017, while spending $109.1 million or 113 percent of our approved budget. Based on these results, we respectfully request approval of an electric CIP incentive of $30,241,197.

I. SUMMARY OF FILING

A one-paragraph summary is attached to this filing pursuant to Minn. R. 7829.1300, subp. 1.

II. SERVICE ON OTHER PARTIES

Pursuant to Minn. R. 7829.1300, subp. 2, the Company has served a copy of this filing on the Office of the Attorney General – Antitrust and Utilities Division. A summary of the filing has been served on all parties on the enclosed service list.

III. GENERAL FILING INFORMATION

Pursuant to Minn. R. 7829.1300, subp. 3, the Company provides the following information.

A. Name, Address, and Telephone Number of Utility

Northern States Power Company doing business as:
Xcel Energy
414 Nicollet Mall
Minneapolis, MN 55401
(612) 330-5500

B. Name, Address, and Telephone Number of Utility Attorney

Mara K. Ascheman
Senior Attorney
Xcel Energy
401 Nicollet Mall, 8th Floor
Minneapolis, Minnesota 55401
(612) 215-4605

C. Date of Filing

The date of this filing is March 30, 2018. The Company requests the Commission approve this Petition with an effective date of October 1, 2018 for the 2018/2019 CIP Adjustment Factor. Approval by this date would ensure that the implemented rate is based on a 12-month recovery period.

D. Statute Controlling Schedule for Processing the Filing

Minn. Stat. § 216B.16, subds. 6b and 6c allow public utilities to file rate schedules providing for annual recovery of actual conservation costs and approved incentives. Minn. Stat. § 216B.16 subd. 1 requires 60-days notice to the Commission of a proposed tariff change. Under the Commission's rules, the proposed tariff change discussed in this Petition falls within the definition of a miscellaneous filing under Minn. R. 7829.0100, subp. 11, since no determination of Xcel Energy's general revenue requirement is necessary. Minn. R. 7829.1400, subp. 1, permits initial comments on miscellaneous filings to be made within 30 days of filing and reply comments 10 days thereafter.

E. Utility Employee Responsible for Filing

Shawn White
Manager, DSM Regulatory Strategy & Planning
Xcel Energy
414 Nicollet Mall, 6th Floor
Minneapolis, MN 55401
(612) 330-6096

IV. MISCELLANEOUS INFORMATION

Pursuant to Minn. R. 7829.0700, the Company requests that the following persons be placed on the Commission's official service list for this proceeding:

Mara K. Ascheman
Senior Attorney
Xcel Energy
401 Nicollet Mall, 8th floor
Minneapolis, MN 55401
mara.k.ascheman@xcelenergy.com

Carl Cronin
Regulatory Administrator
Xcel Energy
401 Nicollet Mall, 7th Floor
Minneapolis, MN 55401
regulatory.records@xcelenergy.com

Any information requests in this proceeding should be submitted to Mr. Cronin.

V. DESCRIPTION AND PURPOSE OF FILING

A. Background

Minn. Stat. § 216B.241 sets forth Minnesota's policy on utility investments in energy conservation. Generally, this statute provides that qualifying energy conservation

improvements are utility investments or expenses that result in a net reduction in energy use. The statute provides a multi-step process for selecting qualifying programs subject to approval by the CIP Unit of the Minnesota Department of Commerce, Division of Energy Resources (DER). Minnesota Rules part 7690.0550 requires that by April 1 of each year, electric utilities file with the DER a status report on each program undertaken during the previous year.

While the Deputy Commissioner approves the CIP programs to be offered, the Commission has the authority to allow recovery of approved expenses and incentives under Minn. Stat. §§ 216B.16, subd. 6b and 216B.241, subd. 2b. These statutes provide for recovery of CIP expenses through a rate rider mechanism without a general rate case proceeding. Under Minn. Stat. § 216B.16, subds. 6b and 6c, the Commission also has the authority to allow Xcel Energy to earn an incentive designed to encourage vigorous participation and compensate the utility for its efforts. On or before each April 1, Xcel Energy submits a filing that seeks approval of the allowed incentive calculated in accordance with the approved formula.

In 2010, the Commission approved a new Shared Savings Incentive Mechanism (Docket No. E,G999/CI-08-133). The shared savings incentive mechanism awards a percentage of the net benefits created by a utility's energy conservation program, beginning once a utility surpasses its earnings threshold. The August 5, 2016 ORDER ADOPTING MODIFICATIONS TO SHARED SAVINGS DEMAND-SIDE MANAGEMENT FINANCIAL INCENTIVE PLAN modified the incentive mechanism to set a fixed range of percentages of net benefits based on the % of sales savings achieved, each year for the 2017, 2018 and 2019 DSM Plan years. The percentage of net benefits awarded increases as achievements increase, up to a cap of percent of net benefits awarded and a cap of total spend. Additionally, during the 2013 Legislature, a provision was added to MN Statute 216B.241, subdivision 7, which allows utilities the option to exclude the net benefits of low-income programs, if negative, from the calculation of the DSM financial incentive.

B. Purpose of Filing

In this filing, the Company requests approval of its 2017 electric CIP Tracker account, incentives earned for 2017 electric program performance, and the 2018/2019 electric CIP Adjustment Factor.

In support of this request, we provide as Attachment A to this filing, an excerpt from our *2017 CIP Status Report*, which we have submitted concurrently to the DER in its

entirety.[1] This Status Report provides the detail behind our 2017 electric and natural gas program costs and achievements. Attachment A to this filing contains the following excerpts from our Status Report that outline our 2017 results:

- Executive Summary, pages 1 to 8.
- 2017 CIP Trackers (Conservation Cost Recovery Report), pages 24 to 28.
- 2018/2019 CIP Adjustment Factor (2017 CIP Adjustment Factor Report), pages 29 to 35.
- 2017 Financial Incentive (Cost-Effectiveness & Performance Mechanism Report), pages 36 to 40.

Please note that the above-referenced page numbers correspond to the numbering in the page headers.

C. 2017 Electric CIP Tracker Account

The Company spent approximately $109.1 million on our electric CIP program in 2017. The Executive Summary provided as pages 1 to 8 of Attachment A summarizes our overall 2017 CIP expenditures and energy savings. The Conservation Cost Recovery Report provided as pages 24 to 28 of Attachment A includes our 2017 electric and natural gas CIP Trackers, which reflect actual 2017 expenditures and revenues, including carrying charges.[2]

As part of the review of utilities' 2009 CIP Cost Recovery and Incentive petitions, the Energy Regulation and Planning Unit of the Department of Commerce, Division of Energy Resources (Department) proposed employee expense guidelines, including a recommended cap on employee expenses of 0.5 percent of the total annual budget or expenses.[3] We report on our 2017 employee expenses below.

1. Employee Expenses

The program costs summarized above include $203,702 in employee expenses related to CIP. Attachment B summarizes our employee expenses for 2017. These expenses comprise less than 0.186 percent of our total electric CIP spending for 2017, which is below the Department's proposed cap of 0.50 percent of total annual budget or expenses.

These expenses were incurred consistent with our employee expense policies, which provide guidance on the types of charges that are recoverable and non-recoverable

[1] The 2017 CIP Status Report was submitted on March 30, 2018 under Docket No. E,G002/CIP-16-115.
[2] Compliance filing for updated electric CIP adjustment factor in Docket E002/M-17-259.
[3] Attachment to the Department's August 13, 2010 Comments in Docket No. E002/M-10-296

through CIP. We report these expenses at the level of detail available from a query of our accounting system.[4]

2. CIP Projects at Utility Facilities

On July 16, 2013, the Commission ordered the Minnesota utilities to work with the Department to develop a scoping plan for the recommissioning and/or auditing of their facilities located in Minnesota. In 2017, the Company did not have any facilities that fell under the qualifications set forth by the Department.

D. 2016 Financial Incentives

Based on achieved CIP savings of over 658 GWh at the generator, or 152 percent of our 2017 CIP savings goal, and net benefits of approximately $222 million, we propose a CIP electric performance incentive of $30,241,197. If approved, the CIP financial incentives would be included in the electric CIP Tracker and recovered through the 2018/2019 CIP Adjustment Factor. We provide our CIP incentive calculation as 36 to 40 of Attachment A.

E. Proposed CIP Adjustment Factor

The Company seeks approval to update its electric CIP Adjustment Factor to $0.001730 per kWh, effective October 1, 2018 through September 30, 2019. This factor allows the Company to recover program costs, financial incentive, and the projected unrecovered Tracker balance.

1. Projected Unrecovered Tracker Balance

We project an unrecovered September 30, 2019 CIP Tracker balance of over $47.8 million, shown on Attachment A, page 30. This balance represents the program costs and incentive not recovered through the Conservation Cost Recovery Charge (CCRC) and the existing electric CIP Adjustment Factor.[5]

2. Proposed CIP Adjustment Factor

[4] As noted in our August 23, 2010 Reply Comments in Docket No. E002/M-10-296, our accounting system has object codes dedicated to several categories of employee expenses, including Business Meals-Employees Only, Business Meals-Non Employees, and Travel Meals. Documentation of the business purpose of the meal and attendees is required as part of the Company's existing expense policy. However, while our current system includes documentation of these details, the system does not provide query access to these details. Further documentation on a specific expense is available upon request.

[5] The CCRC is recovered in base rates.

With this filing, we propose to decrease the CIP Adjustment Factor from $0.001875 per kWh to $0.001730 per kWh to recover the Tracker balance over the October 1, 2018 to September 30, 2019 time period. If approved as proposed and implemented October 1, 2018, the average residential electric customer using 613 kWh per month would pay approximately $1.06 per month.

Table 1: Proposed and Current CIP Adjustment Factor

Electric CIP Adjustment Factor	
Proposed ($/kWh)	**Current** ($/kWh)
$0.001730	$0.001875

Pages 29 to 35 of Attachment A provide the calculation of the CIP Adjustment Factor for 2018-2019 and the 2018 and 2019 CIP Tracker Forecast, assuming we implement the proposed factor October 1, 2018. The Company proposes to continue to set the CIP Adjustment Factor to reduce the Tracker balance to approximately $0 by September 30 of the following year. The September 30, 2019 forecasted balance of $1,770 can be seen on page 31 of Attachment A.

As with previous filings, we propose to update the CIP Adjustment Factor using actual revenue recovery and actual expense available at the time of the Company's Reply Comments. Additionally, if the timing of the approval process suggests the implementation of the 2018/2019 CIP Adjustment Factor will occur after October 1, 2018, we will update the implementation date and adjust the proposed factor to recover the approved revenue requirements over the remaining months of the period, through September 2019.

3. Proposed Customer Notice

We propose to implement the below bill message, effective the first month the 2018/2019 CIP Adjustment Factor takes effect, notifying customers of the change in their monthly bills, as follows**:**

> *Effective Oct. 1, 2018, the Resource Adjustment line item on your bill has decreased due to a change in the Conservation Improvement Program (CIP) factor. The electric CIP portion of the Resource Adjustment is $0.001730 per kilowatt-hour (kWh).*

We will work with the Commission's Consumer Advocate Office in advance of implementing this proposed customer notice.

4. Provision of Forecast Data

The Provision of Forecast Data clause contained in the electric CIP Adjustment Factor tariff sheet (Sheet No. 5-92.1) requires the Company to annually make available on April 1, a 24-month forecast of the CIP Adjustment Factor applicable to demand billed C&I customers under this Rider. The forecast period begins January 1 of the following year. We provide as Attachment C the forecasted CIP Adjustment Factor rates for 24 months beginning January 1, 2019.

F. Description of the Proposed Tariff

As noted above, we propose to decrease the electric CIP Adjustment Factor from $0.001875 per kWh to $0.001730 per kWh. We provide as Attachment D to this filing, redline and clean versions of the following proposed tariff sheet:

Minnesota Electric Rate Book—MPUC No. 2
Sheet No. 5-92, revision 15

G. Public Interest Review

We take seriously our commitment to DSM and recognize the CIP program's value to our customers and the State of Minnesota. The programs approved by the Deputy Commissioner and implemented in 2017 resulted in over 139 MW of demand savings, over 658 GWh of energy savings, and approximately $222 million in net benefits.

As described in this Petition and detailed in Attachment A, our calculations and approach to applying the proposed Factor to customers' bills follows methods previously approved by the Commission. We have calculated our incentives pursuant to the Commission's approved formulas in Docket Nos. E,G999/CI-08-133 and E002/M-11-1101, and have provided all schedules and information necessary to audit our calculations.

The public interest is served by ensuring that the CIP Adjustment Factor closely tracks costs as they are incurred, keeping rates as accurate as possible. Commission approval of our proposed 2018/2019 CIP Adjustment Factor will allow the Company to closely match expenses with the benefits received and keep the Tracker account in balance, thus avoiding potentially large future rate increases for customers. Therefore, we respectfully request that the Commission approve our proposal.

I. EFFECT OF CHANGE UPON XCEL ENERGY REVENUE

For the time period of October 2018 to September 2019, the proposed electric CIP Adjustment Factor of $0.001730 per kWh and the CCRC charged in base rates are forecasted to recover approximately $135 million[6], assuming normal weather. These revenues are necessary to recover the costs incurred to deliver the approved CIP program and the incentive earned on 2017 performance.

CONCLUSION

Xcel Energy respectfully requests that the Commission:

- Approve the Company's 2017 electric CIP Tracker account;
- Approve the CIP incentive of $30,241,197 earned for 2017 program performance;
- Approve the proposed 2018/2019 electric CIP Adjustment Factor of $0.001730 per kWh.

This request is based on achieving over 658 GWh of electric savings and 139 MW of demand saving and generating approximately $222 million in net benefits.

Dated: March 30, 2018

Northern States Power Company

[6] This is the sum of the forecasted CCRC recovery ($86,705,715) and the forecasted CIP Adjustment Factor Recovery ($47,877,717).

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Nancy Lange	Chair
Dan Lipschultz	Commissioner
John Tuma	Commissioner
Matt Schuerger	Commissioner
Katie Sieben	Commissioner

IN THE MATTER OF THE PETITION OF NORTHERN STATES POWER COMPANY FOR APPROVAL OF AN ELECTRIC CONSERVATION IMPROVEMENT PROGRAM ADJUSTMENT FACTOR	DOCKET NO. E002/M-18-___ **PETITION**

SUMMARY OF FILING

Please take notice that on March 30, 2018, Northern States Power Company, doing business as Xcel Energy, filed with the Minnesota Public Utilities Commission a Petition for approval of its 2017 electric CIP Tracker account, financial incentives on 2017 performance, and 2018/2019 electric Conservation Improvement Program Adjustment Factor. The Company has proposed to implement an electric CIP Adjustment Factor of $0.001730 per kWh effective October 1, 2018 through September 30, 2019.

Northern States Power Company, a Minnesota corporation 2017 Conservation Improvement Program Status Report Executive Summary

Northern States Power Company, doing business as Xcel Energy, respectfully submits the following comprehensive report of its electric and natural gas Conservation Improvement Program (CIP) achievements for 2017. This report addresses:

- Overall CIP achievements including participation, expenditures, energy conserved, demand reduced, and carbon dioxide (CO_2) emissions avoided by each segment and program;
- CIP Trackers, including 2017 expenditures and cost recovery by month;
- Calculation of the CIP Adjustment Factors for the period from October 2018 through September 2019, including estimated expenditures, cost recovery, and financial incentives;
- Calculation of the 2017 CIP Financial Incentives;
- Benefit-cost analyses by program, as well as explanations of deviations from goal and changes during 2017; and,
- Other compliance reports, as required by the CIP Unit of the Minnesota Department of Commerce, Division of Energy Resources (DER) and the Minnesota Public Utilities Commission (Commission).

Achievements

In 2017, the electric portfolio met and surpassed the state's 1.5% energy savings target for the sixth year in a row, achieving more than 658 GWh of electric savings or 2.27% of sales. While it was largely a successful performance, the Company does not anticipate the ability to fully replicate the same level of achievement beyond the short term. In recent years, the DSM landscape in Minnesota has significantly changed for customers and utilities as the avoided costs and amount of savings attributable to utility DSM programs have continued to decline. Furthermore, as this report underscores, much of the 2017 electric portfolio's achievement is attributable to home and business LED lighting projects, which will likely level off in the future as customers require fewer lamp replacements each year, due to the longer operating life of LEDs.

In the electric Business Segment, Lighting Efficiency accounted for more than 31% of the business electric portfolio achievement in 2017. The Business New Construction, Commercial Efficiency, and Process Efficiency programs also made significant contributions towards the savings goal. Altogether, those four programs contributed more than 270 GWh of electric savings, accounting for about 70% of savings in the business electric portfolio.

Lighting played an even larger role in the Residential Segment's electric savings achievement. The Home Lighting program alone accounted for nearly 70% of the residential electric portfolio achievement. Other top contributors included the Energy Feedback, Residential Heating, and Residential Cooling programs. Collectively, those four programs achieved more than 176 GWh, which translates to 92% of the residential portfolio's total electric achievement.

The natural gas portfolio also surpassed its filed energy savings goal in 2017. The portfolio achieved 799,597 Dth of total natural gas savings, which is 111% of the approved regulatory goal or 1.11% of sales. In the Business Segment, several programs that offer both electric and natural gas savings

opportunities exceeded their natural gas savings goals, including the Business New Construction, Turn Key Services, and Efficiency Controls programs. Residential Segment gas programs continue to perform well despite increasingly higher building codes and standards. The overall success of the portfolio can be attributed to strong customer and trade engagement.

In 2017, the Company spent a total of $123.29 million to achieve these results, including $109.11 million on electric programs and $14.18 million on gas programs. Electric spending was 113% of the approved regulatory budget and natural gas spending was 86% of the approved regulatory budget.

In sum, the electric programs will provide more than $222 million in net benefits to our customers. Net benefits are a measure of the generation, transmission, distribution and energy costs avoided as a result of our conservation programs less the costs to run the programs. The gas programs will provide more than $28 million in net benefits to our customers.

Our 2017 CIP achievements are summarized in Table 1.

Table 1: Xcel Energy's 2017 CIP Expenditures and Energy Savings

2017	Expenditures ($)	Energy Savings (kWh or Dth)	Demand Savings (kW)
Total Electric Conservation	$87,215,494	654,886,411 kWh	102,447 kW
Total Load Management	$7,029,173	593,959 kWh	36,606 kW
Total Electric Indirect-Impact	$1,834,875	0 kWh	0 kW
Total Other	$13,030,264	2,794,421 kWh	306 kW
Total Electric CIP	**$109,109,805**	**658,274,791 kWh**	**139,359 kW**
Total Gas Conservation	$11,244,733	797,114 Dth	
Total Gas Indirect-Impact	$1,015,365		
Total Other	$1,921,242	2,484 Dth	
Total Gas CIP	**$14,181,339**	**799,597 Dth**	
Total MN CIP	**$123,291,144**		

The Company's cumulative achievements since 1992 exceed 8,900 GWh of electric energy saved, 15.8 million Dth of natural gas saved, and more than $6.1 billion in net benefits achieved, with total spending of $1.6 billion. Our CIP electric achievements also improved over 2016. Figures 1 and 2 highlight total achievements and spending between 2003 and 2017.

Figure 1: Xcel Energy's 2003-2017 Electric CIP Achievements

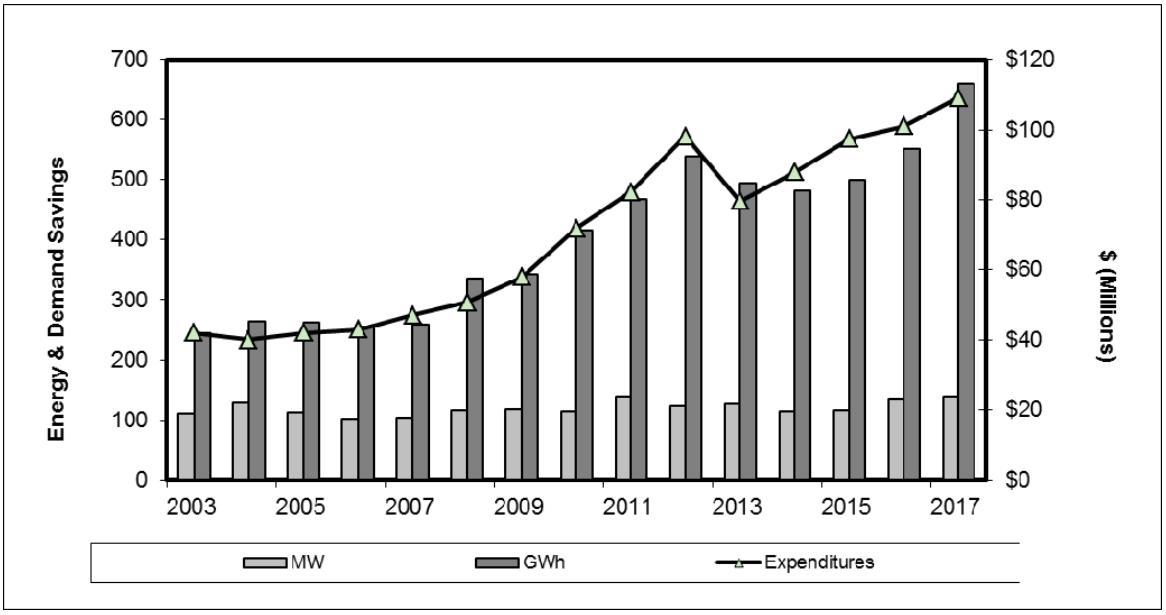
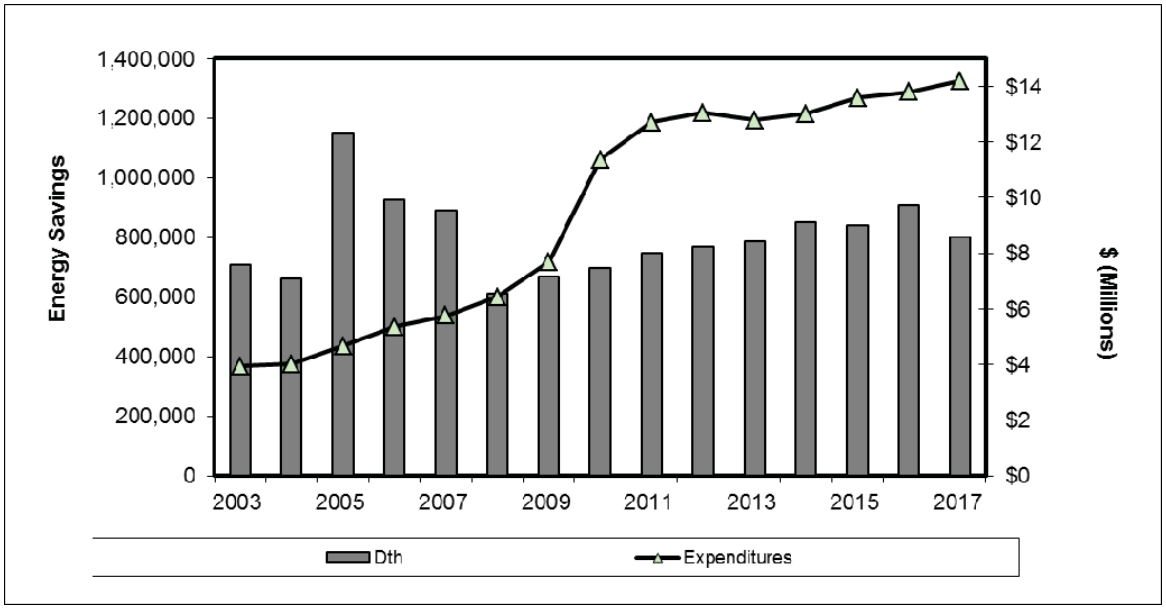


Figure 2: Xcel Energy's 2003-2017 Natural Gas CIP Achievements



The following sections provide greater, in-depth detail on Xcel Energy's 2017 electric and natural gas CIP achievements.

- ***Compliance Reporting*** – Provides information to satisfy provisions in Minnesota Statutes sections 216B.2401, 216B.241, and 216B.2411, including spending requirements and caps. This section also includes all other ordered compliance requirements, including those required by the Commissioner's November 3, 2016 Decision in this docket.

- ***Conservation Cost Recovery Report*** (Docket No. E002/GR-92-1185) – Provides the 2017 CIP Trackers. Xcel Energy seeks approval to record $109,109,805 in electric spending and $14,181,339 in gas spending in its CIP Tracker accounts.

- ***CIP Adjustment Rate Report*** (Docket No. E002/M-94-1016) – Calculates the electric and gas CIP Adjustment Factors to be applied to customer usage for recovery of 2017 conservation expenditures, effective for the period October 2018 through September 2019. Xcel Energy is proposing new electric and gas CIP Adjustment Factors of $0.001730/kWh and $0.011036/therm, respectively.

- ***Cost-Effectiveness and Performance Mechanism Report*** (Docket No. E,G999/CI-08-133 and Docket No. E002/M-11-1101) – Details the mechanisms and calculations of Xcel Energy's DSM Financial Incentives. The Company requests approval to record and recover from customers $30,241,197 in electric and $3,753,592 in natural gas DSM performance incentives in its CIP Trackers.

- ***2017 CIP Status Report*** – Minn. R. 7690.0550 outlines the information that a utility must include in its annual program status report. This report provides budgets and goals, expenditures, actual energy savings, and participation.

- ***Cost-Effectiveness*** – Minn. R. 7690.0550, subd. E requires a utility to provide information on the cost-effectiveness of its programs, as calculated from the utility, participant, ratepayer, and societal perspectives. This section includes all cost-effectiveness analyses, detailed technical assumptions by program and by segment, and project information sheets.

Table 2: Xcel Energy's Electric and Gas CIP Goals

2017	Electric Participants	Electric Budget	Customer kW	Generator kW	Generator kWh	Gas Participants	Gas Budget	Dth Savings
Business Segment								
Business New Construction	117	$7,600,959	7,420	5,810	37,010,688	19	$524,039	30,503
Commercial Efficiency	163	$3,409,609	3,932	3,385	24,954,472	46	$494,441	41,186
Computer Efficiency - PC Power MGMT	1,391	$547,850	446	472	3,655,837	0	$0	0
Cooling Efficiency	1,638	$2,487,682	2,603	2,160	5,956,175	3	$48,579	5,968
Custom Efficiency	52	$1,141,645	984	783	4,894,015	20	$188,789	16,116
Data Center Efficiency	70	$1,110,092	1,049	849	8,559,913	0	$0	0
Efficiency Controls	58	$1,075,917	1,017	230	7,515,754	16	$176,311	16,062
Fluid Systems Optimization	303	$1,508,902	2,087	1,744	13,175,959	0	$0	0
Foodservice Equipment	51	$46,784	90	58	400,687	67	$93,377	5,992
Heating Efficiency	64	$7,830	40	32	156,350	576	$1,309,208	112,002
Lighting Efficiency	1,242	$5,907,661	8,893	6,230	49,917,124	0	$0	0
Motor Efficiency	357	$2,558,062	4,258	3,493	21,000,592	0	$0	0
Multi-Family Building Efficiency	3,038	$656,606	1,201	219	1,670,172	1,013	$280,740	4,177
Process Efficiency	249	$6,945,865	9,263	5,345	49,559,852	74	$1,104,763	188,853
Recommissioning	99	$869,686	1,183	650	7,643,979	47	$194,693	19,748
Self-Direct	0	$25,789	0	0	0	0	$8,401	0
Turn Key	238	$1,360,293	1,126	665	5,295,166	69	$223,776	4,786
Business Segment Energy Efficiency Total	**9,129**	**$37,261,232**	**45,593**	**32,124**	**241,366,737**	**1,949**	**$4,647,117**	**445,391**
Electric Rate Savings	45	$540,126	9,000	4,593	170,174	0	$0	0
Saver's Switch for Business	933	$2,307,250	18,071	3,823	9,668	0	$0	0
Total	**978**	**$2,847,376**	**27,071**	**8,415**	**179,842**	**0**	**$0**	**0**
Business Education	14,000	$247,498	0	0	0	19,000	$37,412	0
Small Business Lamp Recycling	50,000	$53,960	0	0	0	0	$0	0
Business Indirect	**64,000**	**$301,458**	**0**	**0**	**0**	**19,000**	**$37,412**	**0**
Participants	**74,107**	**$40,410,066**	**72,664**	**40,540**	**241,546,579**	**20,949**	**$4,684,529**	**445,391**
Only	**10,107**	**$40,108,608**	**72,664**	**40,540**	**241,546,579**	**1,949**	**$4,647,117**	**445,391**
Residential Segment								
Energy Efficient Showerhead	1,920	$42,252	111	87	1,057,403	14,080	$286,908	30,294
Energy Feedback Residential	256,320	$2,597,820	3,344	3,534	14,990,307	170,998	$312,982	23,786
Efficient New Home Construction	2,024	$752,292	1,120	974	952,129	960	$1,573,311	30,514
Residential Heating	10,000	$1,216,070	1,906	1,380	7,199,127	12,172	$2,488,238	120,000
Home Energy Squad	4,700	$863,079	3,898	455	4,216,871	1,781	$1,290,788	20,261
Home Lighting	151,040	$7,534,551	72,323	9,870	94,154,929	0	$0	0
Whole Home Efficiency	200	$120,565	174	128	170,892	200	$287,852	8,074
Insulation Rebate	491	$217,026	816	130	1,112,829	641	$275,266	13,776
Refrigerator Recycling	6,650	$939,664	1,165	816	7,114,131	0	$0	0
Residential Cooling	11,857	$4,199,060	5,608	5,534	4,022,319	0	$0	0
School Education Kits	14,000	$461,442	1,212	136	1,559,062	14,000	$307,334	11,391
Water Heater Rebate	0	$0	0	0	0	948	$203,970	3,053
Total	**459,202**	**$18,943,821**	**91,677**	**23,044**	**136,549,998**	**215,780**	**$7,026,650**	**261,148**
Residential Demand Response	33,525	$6,892,994	66,171	24,032	304,326	4,224	$94,768	17,649
Consumer Education	433,854	$765,640	0	0	0	382,912	$540,806	0
Home Energy Audit	3,500	$652,795	0	0	0	2,800	$531,297	0
Lamp Recycling - Residential	300,000	$342,964	0	0	0	0	$0	0
Residential Segment with Indirect Participants	**1,230,081**	**$27,598,214**	**157,848**	**47,076**	**136,854,325**	**605,716**	**$8,193,521**	**278,797**
Only	**492,727**	**$25,836,815**	**157,848**	**47,076**	**136,854,325**	**220,004**	**$7,121,418**	**278,797**
Low Income Segment								
Home Energy Savings Program	1,736	$1,229,548	272	107	800,509	400	$1,208,910	3,612
LI Home Energy Squad	1,900	$327,676	1,305	152	1,374,942	1,500	$409,608	9,777
Multi-Family Energy Savings Program	1,766	$805,646	574	107	978,479			
Low Income Segment Total	**5,402**	**$2,362,870**	**2,151**	**366**	**3,153,930**	**1,900**	**$1,618,518**	**13,390**
Planning Segment								
Application Development and Maintenance	0	$1,238,038	0	0	0	0	$444,971	0
Advertising & Promotion	0	$3,300,000	0	0	0	0	$808,360	0
CIP Training	0	$136,842	0	0	0	0	$54,937	0
Regulatory Affairs	0	$451,321	0	0	0	0	$145,490	0
Planning Segment Total	**0**	**$5,126,201**	**0**	**0**	**0**	**0**	**$1,453,758**	**0**
Research, Evaluations & Pilots Segment								
Market Research	0	$1,825,360	0	0	0	0	$223,006	0
Product Development	0	$1,675,226	0	0	0	0	$207,088	0
Energy Star Retail Products	19,102	$597,010	3,494	715	2,027,194	582	$27,240	291
Energy Information Systems	25	$255,716	289	159	1,957,917	4	$78,692	2,096
Total	**19,127**	**$4,353,312**	**3,783**	**873**	**3,985,111**	**586**	**$536,026**	**2,387**
PORTFOLIO SUBTOTAL	**1,328,718**	**$79,850,663**	**236,445**	**88,855**	**385,539,945**	**629,152**	**$16,486,352**	**739,965**
Anticipated Alternative Filings								
CEE One Stop Efficiency Shop	0	$12,964,780	10,419	10,500	48,000,000	0	$0	0
EnerChange	0	$418,500	0	0	0	0	$46,500	0
Energy Smart	0	$374,000	0	0	0	0	$17,000	0
Trillion BTU	0	$174,600	0	0	0	0	$19,400	0
Energy Intelligence	0	$303,500	0	0	0	0	$33,950	0
Anticipated Alternative Filings Total	**0**	**$14,291,880**	**10,419**	**10,500**	**48,000,000**	**0**	**$116,850**	**0**
Assessments Segment	**0**	**$1,974,981**	**0**	**0**	**0**	**0**	**$345,600**	**0**
Made In Minnesota*	**0**	**$2,850,359**	**0**	**0**	**700,000**	**0**		**0**
Electric Utility Infrastructure	**0**	**$0**	**0**	**0**	**0**	**0**	**$0**	**0**
PORTFOLIO TOTAL	**1,314,582**	**$96,225,301**	**228,749**	**89,564**	**433,513,457**	**625,347**	**$16,547,440**	**719,360**

Table 3: Xcel Energy's Electric and Gas CIP Achievements

2017	Electric Participants	Electric Budget	Customer kW	Generator kW	Generator kWh	Electric Societal	Electric Utility	Participants	Gas Budget	Dth Savings	Gas Societal	Gas Utility
Business Segment												
Business New Construction	121	$10,029,339	12,648	12,328	56,895,120	1.90	4.10	42	$1,030,824	112,491	2.54	8.95
Commercial Efficiency	251	$3,742,569	4,648	3,701	26,161,704	1.44	4.05	18	$266,223	36,675	4.67	9.05
Computer Efficiency - PC Power MGMT	2,457	$258,848	382	411	3,198,300	1.08	2.77					
Cooling Efficiency	1,192	$2,969,510	3,396	3,138	9,128,858	1.57	2.63	6	$28,812	4,401	4.58	10.03
Custom Efficiency	42	$1,037,899	1,037	827	4,262,934	4.06	2.72	10	$190,606	15,966	5.50	6.73
Data Center Efficiency	20	$610,566	401	368	8,968,605	2.91	4.65					
Efficiency Controls	54	$1,142,621	1,954	364	14,914,651	1.88	4.56	23	$152,611	22,441	1.71	9.66
Fluid Systems Optimization	150	$1,076,067	10,997	1,250	9,297,273	1.94	3.94					
Foodservice Equipment	29	$33,942	111	69	475,378	2.26	7.57	32	$133,095	11,671	2.59	4.98
Heating Efficiency	60	$8,795	49	52	231,695	5.01	16.91	445	$838,515	90,594	1.43	3.31
Lighting Efficiency	2,322	$14,079,921	26,652	19,627	122,379,925	1.65	4.22					
Motor Efficiency	255	$2,296,102	4,015	3,291	18,675,388	1.86	4.68					
Multi-Family Building Efficiency	130	$515,419	1,678	215	2,179,169	1.61	1.88	41	$288,513	7,423	1.79	1.83
Process Efficiency	218	$7,304,791	80,711	8,008	65,177,991	2.71	4.88	22	$975,823	153,877	1.38	3.41
Recommissioning	58	$848,233	1,317	391	10,641,138	2.40	2.61	19	$169,522	16,670	4.84	3.32
Self-Direct	0	$6,164	0	0	0	0.00	0.00	0	$1,204	0	0.00	0.00
Turn Key	205	$4,353,268	6,199	5,168	33,147,934	1.87	4.65	55	$517,887	42,844	1.40	4.71
Business Segment Energy Efficiency Total	**7,564**	**$50,314,054**	**156,195**	**59,206**	**385,736,064**	**2.01**	**4.17**	**713**	**$4,593,635**	**515,052**	**2.11**	**5.44**
Electric Rate Savings	86	$522,524	28,513	14,563	540,348	7.94	7.90					
Saver's Switch for Business	1,194	$1,864,582	18,770	3,929	6,848	1.40	1.40					
Business Segment Load Management Total	**1,280**	**$2,387,106**	**47,283**	**18,492**	**547,196**	**2.83**	**2.82**					
Business Education	16,574	$230,592	0	0	0			19,495	$39,892	0		
Small Business Lamp Recycling	97,053	$44,670	0	0	0							
Business Indirect	**113,627**	**$275,262**	**0**	**0**	**0**			**19,495**	**$39,892**	**0**		
Participants	**122,471**	**$52,976,422**	**203,478**	**77,698**	**386,283,259**			**20,208**	**$4,633,527**	**515,052**		
Only	**8,844**	**$52,701,160**	**203,478**	**77,698**	**386,283,259**			**713**	**$4,593,635**	**515,052**		
Residential Segment												
Energy Efficient Showerhead	2,178	$39,553	87	67	837,634	11.73	4.04	13,244	$321,352	32,907	21.18	4.80
Energy Feedback Residential	234,809	$1,711,572	3,314	4,000	17,115,157	2.01	1.91	158,877	$240,030	36,599	2.61	2.43
Efficient New Home Construction	1,839	$499,617	759	700	1,530,677	2.05	3.06	1,069	$983,229	25,609	1.35	2.14
Residential Heating	13,642	$1,561,335	2,565	1,990	10,239,367	1.37	4.13	7,212	$2,425,381	126,080	1.79	3.95
Home Energy Squad	3,308	$761,044	4,652	623	4,822,301	2.36	1.87	1,266	$572,052	8,600	1.64	0.69
Home Lighting	234,692	$6,333,853	111,096	15,038	142,942,411	3.59	5.02					
Whole Home Efficiency	41	$42,483	34	26	31,239	0.78	0.95	51	$110,063	2,930	1.24	1.86
Insulation Rebate	380	$39,341	142	120	98,766	1.02	4.70	449	$174,256	9,961	1.05	4.12
Refrigerator Recycling	3,618	$619,989	617	432	3,766,746	2.40	1.77					
Residential Cooling	14,497	$4,702,453	8,170	8,005	5,932,566	1.31	2.35					
School Education Kits	14,021	$479,688	2,058	245	2,787,044	1.51	0.77	14,021	$267,912	23,813	18.56	4.17
Water Heater Rebate	1	$0	0	0	0			1,610	$243,848	5,215	0.80	1.37
Total	**523,026**	**$16,790,929**	**133,494**	**31,245**	**190,103,909**	**2.22**	**3.42**	**197,799**	**$5,338,122**	**271,713**	**2.38**	**3.11**
Residential Demand Response	22,507	$4,642,067	55,663	18,114	46,763	2.52	2.51	65	$17,959	456	0.50	1.19
Consumer Education	631,204	$766,362	0	0	0			420,803	$522,542	0		
Home Energy Audit	2,644	$538,748	0	0	0			2,178	$452,931	0		
Lamp Recycling - Residential	549,966	$254,504	0	0	0			0	$0	0		
Residential Segment with Indirect Participants	**1,729,347**	**$22,992,609**	**189,156**	**49,360**	**190,150,672**			**620,845**	**$6,331,554**	**272,169**		
Only	**545,533**	**$21,432,996**	**189,156**	**49,360**	**190,150,672**			**197,864**	**$5,356,081**	**272,169**		
Low Income Segment												
Home Energy Savings Program	716	$692,310	123	80	289,746	0.20	0.27	216	$966,510	5,143	0.31	0.37
LI Home Energy Squad	989	$281,704	845	114	894,799	1.20	0.93	688	$328,506	4,749	1.49	0.66
Multi-Family Energy Savings Program	1,516	$1,391,040	544	124	972,901	0.18	0.29					
Low Income Segment Total	**3,221**	**$2,365,054**	**1,512**	**318**	**2,157,445**	**0.25**	**0.36**	**904**	**$1,295,016**	**9,893**	**0.50**	**0.44**
Planning Segment												
Application Development and Maintenance	0	$653,427	0	0	0			0	$225,844	0		
Advertising & Promotion	0	$3,196,613	0	0	0			0	$758,910	0		
CIP Training	0	$141,898	0	0	0			0	$51,989	0		
Regulatory Affairs	0	$500,405	0	0	0			0	$86,333	0		
Planning Segment Total	**0**	**$4,492,342**	**0**	**0**	**0**			**0**	**$1,123,076**	**0**		
Research, Evaluations & Pilots Segment												
Market Research	0	$738,322	0	0	0			0	$143,079	0		
Product Development	0	$929,065	0	0	0			0	$174,191	0		
Energy Star Retail Products	5	$619,578	4,633	306	2,174,885	0.83	1.45	4	$49,063	2,484	0.34	2.67
Energy Information Systems	1	$219,818	107	0	619,535	0.59	0.47	0	$28,637	0	0.00	0.00
Total	**6**	**$2,506,783**	**4,741**	**306**	**2,794,421**	**0.44**	**0.40**	**4**	**$394,970**	**2,484**	**0.20**	**0.33**
PORTFOLIO SUBTOTAL	**1,855,045**	**$85,333,211**	**398,887**	**127,682**	**581,385,798**	**1.96**	**3.37**	**641,961**	**$13,778,144**	**799,597**	**1.95**	**3.07**
Anticipated Alternative Filings												
CEE One Stop Efficiency Shop	1,983	$17,745,456	10,860	11,677	76,888,994	1.44	2.15	0	$0	0		
EnerChange	0	$406,562	0	0	0			0	$45,069	0		
Energy Smart	0	$365,607	0	0	0			0	$16,305	0		
Trillion BTU	0	$126,261	0	0	0			0	$16,582	0		
Energy Intelligence	0	$331,296	0	0	0			0	$33,304	0		
Anticipated Alternative Filings Total	**1,983**	**$18,975,181**	**10,860**	**11,677**	**76,888,994**			**0**	**$111,258**	**0**		
Assessments Segment	**0**	**$1,951,053**	**0**	**0**	**0**			**0**	**$291,937**	**0**		
Made In Minnesota*	**0**	**$2,850,359**	**0**	**0**	**2,160,365**			**0**		**0**		
Electric Utility Infrastructure	**0**	**$0**	**0**	**0**	**0**			**0**		**0**		
PORTFOLIO TOTAL	**1,857,028**	**$109,109,805**	**409,747**	**139,359**	**658,274,791**	**1.87**	**3.06**	**641,961**	**$14,181,339**	**799,597**	**1.93**	**2.98**

* Made in Minnesota spend is included in the portfolio total, but the kWh savings are not included.

Avoided Emissions

In addition to the cost-effectiveness of our 2017 portfolio, we have also analyzed the avoided carbon dioxide (CO_2) emissions resulting from our portfolio's achievement. We have performed the avoided CO_2 analysis to highlight this important benefit of our DSM programs and help inform any future portfolio changes that optimize the avoidance of CO_2 emissions.

As Northern States Power Company's electric generation portfolio continues to evolve, especially with the significant growth in wind generation, the CO_2 emissions avoided by each implemented measure varies according to the time the measure avoids electric consumption. To accurately capture the time variation of avoided CO_2 emissions from 2017, the analysis is based on a 2017 run of the hourly marginal energy costs and total system average emissions (lbs of CO2/MWh) for 2017-2030. Marginal emissions are determined by first examining the marginal energy cost. If the marginal energy cost for a single hour is less than $0/MWh, it is assumed that wind generation is the source of the marginal energy and avoided emissions for those hours is 0 lbs of CO_2. For all other hours, it is assumed that the avoided emissions are the total system average emissions for that hour. Similar to the process used to determine Marginal Energy Avoided Revenue Requirements in the portfolio's cost-effectiveness tests, this hourly data is then applied to an hourly load shape for each measure to determine the first year and lifetime avoided emissions for the measure.

The first year and lifetime avoided CO_2 emissions and emissions intensities for each program and segment in 2017 are summarized in Table 4.

Table 4: Xcel Energy's Electric Avoided CO2 Emissions

2017	Avoided First Year Emissions (short tons of CO_2)	Avoided Lifetime Emissions (short tons of CO_2)	Avoided First Year Emissions Intensities (lbs CO_2/generator MWH)	Avoided Lifetime Emissions Intensities (lbs CO_2/generator MWH)
Business Segment				
Business New Construction	27,189	360,159	956	633
Commercial Efficiency	12,502	149,135	956	652
Computer Efficiency - PC Power MGMT	1,522	7,036	952	878
Cooling Efficiency	4,281	53,703	938	661
Custom Efficiency	2,037	25,206	956	637
Data Center Efficiency	4,135	38,180	922	756
Efficiency Controls	6,724	74,740	902	668
Fluid Systems Optimization	4,298	44,221	925	643
Foodservice Equipment	219	2,701	922	636
Heating Efficiency	107	1,321	922	637
Lighting Efficiency	57,971	588,438	947	690
Motor Efficiency	8,871	98,971	950	699
Multi-Family Building Efficiency	1,015	10,858	932	657
Process Efficiency	31,054	367,808	953	655
Recommissioning	4,798	28,970	902	802
Self-Direct	0	0	0	0
Turn Key	15,708	186,351	948	686
Business Segment Energy Efficiency Total	**182,432**	**2,037,798**	**946**	**669**
Electric Rate Savings	260	1,298	962	961
Saver's Switch for Business	3	40	962	778
Total	**263**	**1,338**	**962**	**954**
Business Education	0	0	0	0
Small Business Lamp Recycling	0	0	0	0
Business Indirect	**0**	**0**	**0**	**0**
Business Segment with Indirect Participants	**182,695**	**2,039,136**	**946**	**670**
Business Segment Direct Participants Only	**182,695**	**2,039,136**	**946**	**670**
Residential Segment				
Energy Efficient Showerhead	400	3,433	954	820
Energy Feedback Residential	7,983	23,949	933	933
Efficient New Home Construction	712	9,501	930	623
Residential Heating	4,764	58,790	930	644
Home Energy Squad	2,243	13,924	930	795
Home Lighting	66,190	341,437	926	803
Whole Home Efficiency	15	156	930	695
Insulation Rebate	46	595	933	701
Refrigerator Recycling	1,740	11,378	924	771
Residential Cooling	2,767	33,049	933	737
School Education Kits	1,300	8,953	933	807
Water Heater Rebate	0	0	0	0
Total	**88,159**	**505,164**	**927**	**776**
Residential Demand Response	22	247	952	788
Consumer Education	0	0	0	0
Home Energy Audit	0	0	0	0
Lamp Recycling - Residential	0	0	0	0
Residential Segment with Indirect Participants	**88,181**	**505,411**	**927**	**776**
Only	**88,181**	**505,411**	**927**	**776**
Low Income Segment				
Home Energy Savings Program	134	1,542	924	649
LI Home Energy Squad	427	2,684	954	834
Multi-Family Energy Savings Program	450	4,317	925	682
Low Income Segment Total	**1,011**	**8,543**	**937**	**716**
Planning Segment				
Application Development and Maintenance	0	0	0	0
Advertising & Promotion	0	0	0	0
CIP Training	0	0	0	0
Regulatory Affairs	0	0	0	0
Planning Segment Total	**0**	**0**	**0**	**0**
Research, Evaluations & Pilots Segment				
Market Research	0	0	0	0
Product Development	0	0	0	0
Energy Star Retail Products	1,030	9,723	947	802
Energy Information Systems	293	1,314	945	897
Research, Evaluations & Pilots Segment Total	**1,323**	**11,037**	**947**	**812**
PORTFOLIO SUBTOTAL	**273,209**	**2,564,127**	**940**	**689**

Compliance Reporting

Minnesota Rules ch. 7690 contains the requirements and procedures for CIP filings. Minnesota Statutes sections § 216B.2401, 216B.241, and 216B.2411 contain provisions the Company must meet in its CIP. All compliance points are addressed in this section.

Statutory Requirements

Minimum Spending Requirement

Minn. Stat. § 216B.241 subd. 1a requires that 2.0% of the Company's electric Gross Operating Revenues (GOR) be spent on electric CIP and 0.5% of gas GOR be spent on gas CIP. Table 5 shows our spending in relation to our approved minimum spending requirement.

Table 5: Minimum Spending Requirement

	Minimum Spending Requirement	Approved Spend*	Actual Spend	Variance of Actual to Minimum Spend
Electric	$57,007,184	$96,225,301	$109,109,805	$52,102,621
Gas	$2,180,986	$16,547,440	$14,181,339	$12,000,353
Total	$59,188,170	$112,772,741	$123,291,144	$64,102,974

*Approved Spend matches the total approved budgets in the November 3, 2016 Decision filed under this docket plus program modifications.

2017 Achievements as a Percentage of Sales

Table 6 shows our achievements as a percent of our 2014-2016 weather-normalized retail sales, adjusted for exempt customers as of May 15, 2016.

Table 6: Achievements as Percent of Sales

	Electric			Gas		
Year	Energy Savings Achieved (MWh)	Total Adjusted Sales (MWh)	Savings as % of Retail Sales	Energy Savings Achieved (Dth)	Total Adjusted Sales (Dth)	Savings as % of Retail Sales
2017	658,275	28,947,564	2.27%	799,597	71,897,513	1.11%

2017 Low-Income Spending Requirement

The following table compares our 2017 actual spend to the updated requirement. Both the approved low-income spend and actual spend are representative of programs only found in the Low-Income Segment and do not include spending associated with alternative programs, specifically EnerChange and EnergyWise, even though they also target low-income and non-profit customers. The Low-Income Segment section provides greater detail on low-income program achievements.

Table 7: Low-Income Spending Requirement

	Minimum Spending Requirement	Approved Low-Income Spend*	Actual Spend	Variance of Actual to Minimum Spend
Electric	$2,159,572	$2,362,870	$2,365,054	$205,482
Gas	$1,268,504	$1,618,518	$1,295,016	$26,512
Total	$3,428,076	$3,981,388	$3,660,070	$231,994

*Approved Spend matches the total approved budgets in the November 3, 2016 Decision filed under this docket plus program modifications.

2017 Research & Development 10% Spending Cap

Minn. Stat. § 216B.241, subd. 2(c) limits spending on Research & Development to 10% of the minimum spending requirement. As discussed on page 110 of the 2017-2019 CIP Triennial Plan, all Product Development spend is subject to this cap, except for pilot programs. Spending details are shown below.

Table 8: Research & Development Spending Cap

	Annual Spending Cap	Approved Spend	Actual Spend	Variance of Actual to Cap
Electric	$5,700,718	$1,675,226	$929,065	-$4,771,653
Gas	$218,099	$207,088	$174,191	-$43,908
Total	$5,918,817	$1,882,314	$1,103,256	-$4,815,561

Distributed Energy Resources Spending Cap

Minn. Stat. § 216B.2411, subd. 1(a) allows utilities to spend up to five percent of the utility's minimum spending requirement on distributed generation projects. The Solar*Rewards Generation 1 ended in 2014 and is no longer included within CIP. ORDER APPROVING TARIFFS AS MODIFIED, Docket No. E002/M-13-1015 (July 23, 2014).

In 2017, Made in Minnesota program spending made up the Company's distributed resources budget under CIP. Minn. Statute §216C.412 Subd. 2, established in 2013, required public utilities to pay a portion of their minimum spend amount towards the Made in Minnesota solar energy production incentive account beginning January 1, 2014, and each January 1 thereafter, through 2023, for a total of ten years. Minn. Stat. §216C.412 was repealed on May 31, 2017 by 2017 Minnesota Law Chapter 94, Article 10, Section 30, thus ending the Company's obligation under the statute on a going forward basis. Because Minn. Stat. §216C.412 was in effect for the first half of the year, the Company complied with the statute. Under Minn. Stat. §216C.412, each electric public utility subject to section 216B.241 had to annually pay to the Commissioner of the Department five percent of the minimum amount it is required to spend on energy conservation improvements under section 216B.24. The Department invoiced the Company for these fees on a yearly basis. Table 9 details our compliance towards this statute.

On March 7, 2018 the Department of Commerce issued a 2017 Energy Savings Credit for the Made in Minnesota program. We were allocated 2,007,340 kWh in energy savings at the meter (2,160,365

kWh at the generator). These savings are not included in the portfolio total for the year and are not calculated towards our 2017 incentive.

Table 9: Made in Minnesota Spend

	5% of Minimum Spend	2017 MiM Assessment
Made In Minnesota (CIP Funds)	$2,850,359	$2,850,359

Lighting Use and Recycling Programs

Minn. Stat. § 216B.241, subd. 5 requires utilities to invest in projects that encourage the use of energy efficient lighting and reclamation or recycling of spent fluorescent and high intensity discharge lamps. Xcel Energy met this requirement through its business and residential lighting and lamp recycling programs.

Carry-Forward Provision

Minn. Stat. §216B.241, subd. 1c. allows utilities to carry forward energy savings in excess of 1.5% for a year to the succeeding three calendar years for customer program savings and five years for electric utility infrastructure (EUI) projects. Because we surpassed the 1.5% electric savings goal, we meet the eligibility guidelines for use of the carry-forward provision.

The following table confirms our eligibility for the carry-forward provision for the 2017 program year and provides an update of the previously approved carry forward savings.

Table 10: Total Savings and Percent of Sales for Customer Program and Electric Utility Infrastructure Savings

2017	kWh	% of Sales
Customer Program Achievements	658,274,791	2.27%
EUI Achievements	0	0.00%
Total	658,274,791	2.27%

On February 20, 2018, the Department issued updated guidance in the matter of claiming energy savings through electric utility infrastructure (EUI) improvements and the energy savings carry forward provision (Docket No. E, G999/CIP-17-856). As the Company noted in our Comments on the new guidance, we are committed to transparency and reporting on our EUI projects and investments specifically motivated by efficiency in our annual CIP status reports, even if not electing to carry forward savings.

In 2017, the Company had two EUI improvement projects. The first project was related to a facility HVAC replacement in White Bear Lake, Minnesota and the second project was related to facility lighting upgrades in Maple Grove, Minnesota. The Company does not claim the estimated savings from either EUI improvement project.

Triennial Decision Requirements

The following requirements were established in the Commissioner's November 3, 2016 Decision approving our 2017-2019 CIP Triennial Plan in Docket No. E,G002/CIP-16-115.

Budget Flexibility

In the November 3, 2016 Decision approving our 2017-2019 CIP Triennial Plan (E,G002/CIP-16-115), the Company was granted additional flexibility to exceed the approved budgets for all direct impact segments as long as the additional spending does not result in the segment becoming non-cost effective from the societal perspective. If exceeding 125 percent of a segment budget, the Company is required to provide a courtesy notification to the Department. The Business Segment exceeded 125 percent of the segment budget in late Q4 due to an unanticipated increase in participation in our lighting program. Going forward, the Company will more closely monitor spikes in program participation to provide a more timely courtesy notification to the Department.

Program Modifications

Minn. R. 7690.1400 requires utilities to file formal program modifications when:

- Proposing a new project;
- Discontinuing an existing project;
- Reducing the minimum qualifying efficiency level of a measure or technology;
- Decreasing project budgets, savings and participation goals;
- Increasing the Planning Segment annual budget by more than 25%; and
- Increasing the Research, Evaluations, and Pilots Segment by more than 25%.

In the November 3, 2016 Decision on our CIP Triennial Plan (E, G002/CIP-16-115), the Deputy Commissioner discontinued the use of the informal modification process, for a formal modification process and courtesy notifications. In 2017, the Company submitted the following program modification filings and courtesy notifications.

Table 11: Program Modification Filings

Modification Filing Date	Programs Included	Approval Date
April Formal (4/28/17)	Advertising and Promotions	6/26/17
	Home Lighting	
	Lighting Efficiency	
	Saver's Switch	
July Formal (7/7/17)	Home Energy Savings	8/18/17
	Residential Cooling	
July Courtesy Notification (7/7/17)	Insulation Rebate	n/a
September Formal (9/22/17)	Energy Efficient Showerheads, Home Energy Squad & Low-Income Home Energy Squad	10/24/17
	Lighting Efficiency	
December Formal (12/21/17)	Whole Home Efficiency & Multi-Family Building Efficiency	3/29/18
	Lighting Efficiency	
	Whole Home Efficiency & Home Energy Squad	

	Commercial Refrigeration Efficiency	

Customer Incentive Flexibility
The Company has the flexibility to change rebate amounts provided changes do not result in the rebate exceeding the incremental cost of the efficiency improvement and are not made in an effort to take a customer away from a competitor. The Company complied with this requirement.

Other Regulatory Requirements

Compliance with Measurement and Verification ("M&V") Protocols for Large Custom CIP Projects
On July 23, 2008, the Deputy Commissioner approved the M&V Protocols for Large Custom CIP Projects, as part of Docket No. E,G999/CIP-06-1591. The Protocols apply to custom projects that have savings greater than 1 GWh or 20,000 Dth and are initiated after April 1, 2008. As required by the protocols, we submitted 10 projects that met these criteria and required monitoring. We submitted monitoring reports for all of these qualifying projects to the Department, which required approval.

2017 Employee Expenses
In the Department's August 13, 2010 Comments in Docket No. E002/M-10-296, the Department proposed employee expense guidelines, including a recommended cap on employee expenses of 0.5 percent of total annual budgets or expenses. In 2017, the Company had a total of $239,246 in employee expenses related to CIP. These expenses comprise about 0.2% of our total CIP spending for 2017, which is below the Department's proposed cap of 0.5% of total annual budget or expenses. The following table summarizes our employee expenses for 2017.

Table 12: Summary of 2017 Employee Expenses

Employee Expense Category	Electric Amount	Gas Amount	Total
Airfare	$24,535.71	$2,892.64	$27,428.35
Hotel	$32,735.45	$4,719.03	$37,454.48
Car Rental	$551.73	$57.70	$609.43
Taxi/bus	$2,084.62	$347.45	$2,432.07
Mileage	$34,686.91	$5,388.26	$40,075.17
Parking	$4,568.14	$779.44	$5,347.58
Business Meals- Employees Only	$12,177.11	$2,162.73	$14,339.84
Business Meals- Including Non-Employees	$38,851.34	$7,469.32	$46,320.66
Conferences/Seminars/Training	$53,511.40	$11,727.63	$65,239.03
Total Employee Expenses	**$203,702.41**	**$35,544.20**	**$239,246.61**

These expenses were incurred consistent with our employee expense policies, which provide guidance on the types of charges that are recoverable and non-recoverable through CIP. We report these expenses at the level of detail available from a query of our accounting system.

CIP Projects at Utility Facilities

On July 16, 2013, the Commission ordered the Minnesota utilities to work with the Department to develop a scoping plan for the recommissioning and/or auditing of their facilities located in Minnesota. On June 16, 2014, we submitted our scoping plan, which the Department approved on August 5, 2014. As detailed in the scoping plan, the Company had one facility that fell under the qualifications set forth by the Department. In 2014, the audit was completed for that facility; unless there are future compliance obligations related to CIP projects at utility facilities, this will be our last annual update on this item.

2017 Influenced Savings Projects

There are three influenced savings projects to report for 2017. The term "Influenced Savings" refers to projects for which Xcel Energy played a significant role in the customer's decision to implement an energy efficiency measure and for which the customer participated in the normal Custom Efficiency project submission process, yet whose cost-effective analysis or payback period failed. For such projects, Xcel Energy denies the customer any rebate for their efficiency measure, but claims Influenced Savings in order to appropriately account for the Company's energy and demand savings for the implementation of the higher energy efficiency technology and to recognize the often significant labor and/or study costs invested in the project.

To qualify as an influenced savings project, the project must satisfy the following guidelines:

1. Project Pre-approval – Must occur prior to purchase and installation.
2. Cost-Effectiveness Tests – Projects must pass the Participant and Societal Tests.
3. Payback – Projects with a payback period of less than nine months may be considered only if they meet all the other Influenced Savings guidelines herein.
4. Large Projects – Projects with savings of 2 GWh and greater require separate DER pre-review. All other projects will be reviewed as part of the Status Report.
5. Savings Cap – Influenced Savings claims cannot exceed 4% of the Company's annual CIP achievements.
6. Documentation – Documentation must be provided to show Xcel Energy's involvement was an important factor in implementing the energy saving project.

Xcel Energy submits the following supplemental information for its three influenced savings projects in 2017. Table 13 summarizes the programs affected by these projects and the associated savings. To maintain customer anonymity, the projects will be referred using their OID number. As required for Influenced Savings, these projects received Xcel Energy preapproval and passed the societal and participant tests, but did not receive a rebate. Influenced savings projects are included in the programs they fall under. Savings from Influenced Savings projects account for less than 0.01% of total electric savings.

Table 13: Summary of Influenced Savings Projects

Project OID	Program	Customer KW	Customer kWh	Dth
2747332	Custom Efficiency	3.78	33,073	0
2894445	Custom Efficiency	0.55	1,204	0
2941819	Custom Efficiency	3.79	33,219	0
	Totals	**8.12**	**67,496**	**0**

Influenced Savings Project Descriptions

The 2017 Influenced Savings Project summary trackers comprise the following three pages.

2017 Influenced Savings
Supplementary Information Worksheet

Project Number OID2747332
Program Name Custom Efficiency
Project Type Electric

Project Information		
Pre-approval Date	**Equipment Installed**	**Payback (years)**
October 20, 2017	Air Compressor	0.34

Electric Cost-Benefit Test Results			
Participant Test	**Utility Test**	**Rate Impact Test**	**Societal Test**
8.43	N/A	N/A	2.65

Gas Cost-Benefit Test Results			
Participant Test	**Utility Test**	**Rate Impact Test**	**Societal Test**
N/A	N/A	N/A	N/A

Project Description
Smaller air compressor is used and some equipment is turned off during non-operational periods at night. Data before and after implementation of behavior is monitored.

Estimated Energy Savings			
Customer kW	**Customer kWh**	**Dth Natural Gas**	**Reason for Rebate Denial**
3.78	33,073	0	Payback less than 9 months

Project History	
Note: Please make sure there is no customer-identifying info in history	
Date	**Description**
7/1/2015	Achieved energy savings by shutting down main air compressor at night and run on smaller back up compressor
6/19/2017	Energy Intelligence program participant: Provided monitoring that helped the customer understand that they could switch to a backup compressor at night. Year 1 Savings
10/24/2017	Year 2 savings

2017 Influenced Savings
Supplementary Information Worksheet

Project Number OID2894445

Program Name Custom Efficiency

Project Type Electric

Project Information		
Pre-approval Date	**Equipment Installed**	**Payback (years)**
October 17, 2016	Ozone Laundry System	4.04

Electric Cost-Benefit Test Results			
Participant Test	**Utility Test**	**Rate Impact Test**	**Societal Test**
3.37	N/A	N/A	-9.89

Gas Cost-Benefit Test Results			
Participant Test	**Utility Test**	**Rate Impact Test**	**Societal Test**
N/A	N/A	N/A	N/A

Project Description
Customer installed an ozone system at a new laundromat. Ozone laundry systems reduce need for hot water as well as reduce drying time.

Estimated Energy Savings			
Customer kW	**Customer kWh**	**Dth Natural Gas**	**Reason for Rebate Denial**
0.55	1,204	0	negative societal test results

Project History	
Note: Please make sure there is no customer-identifying info in history	
Date	**Description**
2/2/2017	Project saved predominantly natural gas tracked with a rebate under a separate project number. The electric savings did not qualify for a rebate.

2017 Influenced Savings
Supplementary Information Worksheet

Project Number OID2941819

Program Name Custom Efficiency

Project Type Electric

Project Information		
Pre-approval Date	**Equipment Installed**	**Payback (years)**
10/17,2016	Air Compressor	0.34

Electric Cost-Benefit Test Results			
Participant Test	**Utility Test**	**Rate Impact Test**	**Societal Test**
8.48	N/A	N/A	2.65

Gas Cost-Benefit Test Results			
Participant Test	**Utility Test**	**Rate Impact Test**	**Societal Test**
N/A	N/A	N/A	N/A

Project Description
Smaller air compressor is used and some equipment is turned off during non-operational periods at night. Data before and after implementation of behavior is monitored.

Estimated Energy Savings			
Customer kW	**Customer kWh**	**Dth Natural Gas**	**Reason for Rebate Denial**
3.79	33,219	0	Payback less than 9 months

Project History	
Note: Please make sure there is no customer-identifying info in history	
Date	**Description**
7/1/2015	Achieved energy savings by shutting down main air compressor at night and run on smaller back up compressor
6/19/2017	Energy Intelligence program participant: Provided monitoring that helped the customer understand that they could switch to a backup compressor at night. Year 1 Savings

Northern States Power Company, a Minnesota corporation
Summary of the Evaluations of Product Impact Measurement Methods
Reference Docket No. E002/M-90-1159

Background
In a January 3, 1992 Order in Docket No. E002/M-90-1159, the Commission required a performance measurement evaluation to accompany Northern States Power Company, a Minnesota corporation's, financial incentive mechanism filing. This information, suggested by the Department of Public Service (now the Division of Energy Resources), was required in order to provide a sound basis for Xcel Energy's DSM Financial Incentive. In 1999, 2010, 2012, and again in 2016, the Commission modified Xcel Energy's financial incentive but retained the basic performance-based philosophy that requires ongoing efforts to ensure that impacts are reasonably well measured.

Xcel Energy considers the following factors in determining what impact measurement methods are appropriate**:**

- The uncertainties associated with existing impact estimates;
- The relative importance of the individual product;
- The cost of impact measurement relative to the overall cost and cost-effectiveness of its various products;
- Informal ongoing product management evaluation efforts to identify issues requiring a more formal evaluation;
- The extent to which previous evaluation work remains pertinent;
- Cost-effective developments in measurement and evaluation methods; and
- Effects of free-ridership, free-drivership, and spillover.

The Company's process and/or impact analysis efforts since 2007 are shown in the table below.

Table 14: Xcel Energy's Process and/or Impact Analysis Efforts Since 2007

Product	Type	Status
Motors Efficiency	Process and Impact Evaluation	Completed in 2007
Home Performance	Qualitative Market Assessment	Completed in 2007
Custom Efficiency	Site-Specific Impact Review	*Annual Evaluation*
Energy Design Assistance	Site-Specific Impact Review	*Annual Evaluation*
Residential Saver's Switch®	Impact Evaluation	*Annual Evaluation*
Saver's Switch® for Business	Impact Evaluation	*Annual Evaluation*
Low Income Program	Customer Satisfaction Study	*Annual Evaluation until 2010*
Home Energy Audits	Customer Satisfaction Study	*Ongoing Study*
Energy Efficient Showerhead	Customer Satisfaction Study	Completed in 2008
Recommissioning Program	Customer Satisfaction Study	Completed in 2008
Residential Heating System Rebates	Process and Impact Evaluation	Completed in 2008
Gas Market Potential Study	Potential Study	Completed in 2009

Energy Design Assistance Program	Process & Impact Evaluation	Completed in 2009
Saver's Switch® Program	Process Evaluation	Completed in 2009
Energy Rate Savings	Process Evaluation	Completed in 2010
Energy Management Systems	Process and Impact Evaluation	Completed in 2010
Recommissioning	Process and Impact Evaluation	Completed in 2010
CEE One Stop Efficiency Shop	Process Evaluation	Completed in 2010
ENERGY STAR Homes	Process and Impact Evaluation	Completed in 2010
Low Income Home Energy Services Program	Process and Impact Evaluation	Completed in 2011
Residential Cooling Quality Installation Verification	Process and Impact Evaluation	Completed in 2011
Commercial Heating Efficiency	Process and Impact Evaluation	Completed in 2011
Efficiency Motors/Drives	Process and Impact Evaluation	Completed in 2011
Trillion BTU Program	Process Evaluation	Completed in 2011
Energy Efficient Showerhead	Customer Satisfaction Study	Completed in 2011
Residential Lighting	Process and Impact Evaluation	Completed in 2012
MN Electric Potential Study - Xcel Energy Service Area	Potential Study	Completed in 2012 Updated in 2014
Solar*Rewards	Process Evaluation	Completed in 2012
Business Cooling Efficiency	Process and Impact Evaluation	Completed in 2012
Business Process Efficiency	Process and Impact Evaluation	Completed in 2012
Business Custom Efficiency	Process and Impact Evaluation	Completed in 2013
Residential Consumer Education	Process Evaluation	Completed in 2013
Residential Home Performance	Process and Impact Evaluation	Completed in 2013
Residential Home Energy Squad	Process and Impact Evaluation	Completed in 2014
Residential Heating Systems Rebates	Process and Impact Evaluation	Completed in 2014
Fluid System Optimization	Process and Impact Evaluation	Completed in 2015
Recommissioning	Process and Impact Evaluation	Completed in 2015
School Education Kits	Process and Impact Evaluation	Completed in 2015
Computer Efficiency	Process and Impact Evaluation	Completed in 2016
Lighting Efficiency	Process and Impact Evaluation	Completed in 2016
Efficiency Controls	Process and Impact Evaluation	Completed in 2016
Refrigerator Recycling	Process and Impact Evaluation	Completed in 2016
Data Center Efficiency	Process and Impact Evaluation	Completed in 2017
Heating Efficiency	Process and Impact Evaluation	Completed in 2017
Insulation Rebates	Process and Impact Evaluation	Completed in 2017

Following is a summary of current energy savings calculation methods and M&V practices. For products where technical assumptions have changed due to evaluation or impact analysis results, the specific changes have been documented in the text of this status report and incorporated into the respective CIP cost-benefit analyses.

Current Analysis Methods
Product impact estimates are typically developed for demand savings, energy savings, coincidence, loss factors, and the lifetime of DSM measures. These parameters are needed for product economic analyses and for direct tracking of product impacts as required for the Company's CIP and Resource Plans.

Energy Efficiency Programs
Developing a good baseline from which to estimate the savings for more efficient technologies is an important part of impact estimation. We regularly update our DSM products and impact estimates to keep pace with changing governmental energy efficiency standards. In addition, we have conducted broad-based market assessments to track technology market saturation and use patterns, and make appropriate changes to products' impact estimates. Finally, we maintain regular contacts with various researchers, equipment manufacturers, distributors, and retailers to keep abreast of current efficiency market trends in order to make any needed changes to DSM products or their impact estimates.

For custom projects, energy savings and coincidence factor estimates are usually based on Xcel Energy-specific market and/or load research regarding annual hours of use and times of operation.

Load Management Programs
Load management programs either require interval data collection to calculate customer bills, or they involve behavioral changes on the part of customers. We base the impacts on our analysis of metering data, as the effects are more difficult to estimate through engineering methods. The extensive metering data gathered, covering both interrupt and non-interrupt periods, allows more accurate estimation of customers' baseline electricity use and net product impacts than is readily achievable with energy efficiency programs.

Current Measurement and Verification Practices
In 2017, our M&V efforts mirrored those filed on pages 114-119 of our 2017-2019 Triennial Plan. Each program has an M&V plan to provide assurance that rebated measures were implemented as reported and that our reported savings are as accurate as possible. For prescriptive business and residential programs, we hire third party contractors to perform random audits on a statistically valid number of rebated projects in order to determine an appropriate realization rate for each program. This realization rate is then applied to the total gross savings for each program for that given year. Some prescriptive residential programs have M&V plans tailored to their program design and delivery method. For Custom business programs, the Company follows the M&V Protocols for Large Custom CIP Projects approved by the Director in Docket No. E,G999/CIP-06-1591.

Low-Income and Renter Participants
On June 24, 2016, the Company filed a letter to supplement the 2017-2019 CIP Triennial Plan. In that letter the Company mentioned that it would provide the following information:

> For each project targeted at residential consumers, an estimate of the anticipated

percentage of participation of each project among:

a. Low-income participants; and
b. Renters;

Tables 15 and 16 provide the following information.

Table 15: Low-Income Participation by Project, 2017

Project	Low Income - Electric			Low Income - Gas		
	Participants	Low-Income Participants	Percent of Participation	Participants	Low-Income Participants	Percent of Participation
Residential Segment						
Energy Efficient Showerhead	2,178	10	0.5%	13,244	19	0.1%
Energy Feedback Residential	234,809	9,161	3.9%	158,877	7,433	4.7%
Efficient New Home Construction	1,839	3	0.2%	1,069	4	0.4%
Residential Heating	13,642	139	1.0%	7,212	112	1.6%
Home Energy Squad	3,308	43	1.3%	1,266	11	0.9%
Home Lighting	234,692	1,397	0.6%			
Whole Home Efficiency	41	2	4.9%	51	2	3.9%
Insulation Rebate	380	9	2.4%	449	16	3.6%
Refrigerator Recycling	3,618	67	1.9%			
Residential Cooling	14,497	137	0.9%			
School Education Kits	14,021	5,370	38.3%	14,021	5,370	38.3%
Water Heater Rebate	1	0	0.0%	1,610	48	3.0%
Residential Demand Response	22,507	308	1.4%	65	0	0.0%
Consumer Education	631,204	69,433	11.0%	420,803	46,288	11.0%
Home Energy Audit	2,644	169	6.4%	2,178	158	7.3%
Lamp Recycling - Residential	549,966	3,273	0.6%			
Residential Total	**1,729,347**	**89,521**	**5.2%**	**620,845**	**59,461**	**9.6%**
Low Income Segment						
Home Energy Savings Program	716	716	100.0%	216	216	100.0%
LI Home Energy Squad	989	989	100.0%	688	688	100.0%
Multi-Family Energy Savings Program	1,516	1,516	100.0%			
Low Income Segment Total	**3,221**	**3,221**	**100.0%**	**904**	**904**	**100.0%**

Table 16: Renter Participation by Project, 2017

Project	Renter - Electric			Renter - Gas		
	Participants	Renter Participants	Percent of Participation	Participants	Renter Participants	Percent of Participation
Residential Segment						
Energy Efficient Showerhead	2,178	126	5.8%	13,244	382	2.9%
Energy Feedback Residential	234,809	107,181	45.6%	158,877	73,121	46.0%
Efficient New Home Construction	1,839	0	0.0%	1,069	0	0.0%
Residential Heating	13,642	226	1.7%	7,212	107	1.5%
Home Energy Squad	3,308	106	3.2%	1,266	41	3.2%
Home Lighting	234,692	50,928	21.7%			
Whole Home Efficiency	41	0	0.0%	51	0	0.0%
Insulation Rebate	380	7	1.8%	449	7	1.6%
Refrigerator Recycling	3,618	73	2.0%			
Residential Cooling	14,497	350	2.4%			
School Education Kits	14,021	3,043	21.7%	14,021	3,043	21.7%
Water Heater Rebate	1	0	0.0%	1,610	119	7.4%
Residential Demand Response	22,507	568	2.5%	65	0	0.0%
Consumer Education	631,204	69,433	11.0%	420,803	46,288	11.0%
Home Energy Audit	2,644	287	10.9%	2,178	227	10.4%
Lamp Recycling - Residential	549,966	119,343	21.7%			
Residential Total	**1,729,347**	**351,670**	**20.3%**	**620,845**	**123,335**	**19.9%**
Low Income Segment						
Home Energy Savings Program	716	152	21.2%	216	2	0.9%
LI Home Energy Squad	989	342	34.6%	688	198	28.8%
Multi-Family Energy Savings Program	1,516	1,516	100.0%			
Low Income Segment Total	**3,221**	**2,010**	**62.4%**	**904**	**200**	**22.1%**

Northern States Power Company
a Minnesota corporation
2017 Conservation Cost Recovery Report
Reference Docket No. E002/GR-92-1185

Cost-effective conservation benefits all of our customers by reducing the need to build new power plants or other generation facilities to meet our customers' electricity needs. Conservation also has environmental benefits, including a reduction in air pollution and greenhouse gas emissions associated with using fossil fuels. This section reports the actual 2017 spending and cost recovery, as well as the electric tax and rate base factors and calculation of the cost of capital.

Electric Achievements

In 2017, Xcel Energy spent $109,109,805 on its electric CIP efforts. These expenditures provided an overall reduction of over 658 GWh. Xcel Energy is requesting recovery of $109,109,805 in 2017 electric CIP expenses. We are also requesting recovery of $30,241,197 in financial incentives earned for our 2017 electric CIP performance for total electric recovery of $139,351,002.

Gas Achievements

Xcel Energy conserved 799,597 Dth through its 2017 natural gas CIP at a cost of $14,181,339. The Company requests recovery of $14,181,339 in CIP expenditures, as well as $3,753,592 in financial incentive earned for our 2017 gas CIP performance for total natural gas recovery of $17,934,931.

The tables on the following pages include:

- Xcel Energy's 2017 electric (Table 17) and gas (Table 18) CIP Trackers, which document monthly CIP expenditures and recovered costs.
- Summary of the electric tax and rate base factors (Table 19) used in the electric CIP Tracker.
- Calculation of the Cost of Capital (Table 20) provides the tax factors and capital structure used to determine cost recovery and return on rate base in the electric CIP Trackers.

Effective January 1, 2015, NSPM changed the FERC accounting on the CIP Carrying Charges from FERC Accounts 419.1 and 432 to FERC Account 421

Northern States Power Company, a Minnesota corporation
State of Minnesota- Electric Utility
DSM Cost Recovery & Incentive Mechanism - Total
2017 Actuals

	EXPENSES	Jan Actual	Feb Actual	Mar Actual	Apr Actual	May Actual	Jun Actual	Jul Actual	Aug Actual	Sep Actual	Oct Actual	Nov Actual	Dec Actual	Annual
1.	Balance	19,640,542	16,958,326	14,581,181	14,838,264	11,244,123	6,396,289	4,263,923	(2,798,687)	(7,681,482)	(11,895,362)	35,523,067	33,279,767	31,512,526
2.	CIP Program Expenditures	10,118,905	8,328,969	12,347,916	6,875,942	6,685,585	11,132,753	7,615,534	8,386,016	8,796,591	9,969,709	8,641,945	10,209,939	109,109,805
3.	2016 Performance Incentive										48,368,493			48,368,493
4.	Total Expenses + Incentive (Line 1 + 2 + 3)	29,759,448	25,287,295	26,929,096	21,714,206	17,929,708	17,529,042	11,879,457	5,587,329	1,115,110	46,442,840	44,165,012	43,489,705	188,990,824
	RECOVERY													
5.	CCRC Rate ($/MWh)	3.130	3.130	3.130	3.130	3.130	3.130	3.130	3.130	3.130	3.133	3.133	3.133	
6.	CCRC Cost Recovery (CCRC times Sales)	7,571,796	6,332,688	7,151,433	6,192,485	6,820,218	7,843,642	8,677,690	7,843,486	7,689,922	6,838,902	6,817,374	7,500,189	87,279,824
7.	CIP Adjustment Factor Rate ($/MWh)	2.164	2.164	2.164	2.164	2.164	2.164	2.164	2.164	2.164	1.875	1.875	1.875	
8.	CIP Adjustment Factor Recovery (Factor times Sales)	5,234,941	4,378,255	4,944,313	4,281,322	4,715,320	5,422,889	5,999,527	5,422,781	5,316,610	4,092,635	4,078,892	4,487,426	58,374,911
9.	Sub-Balance (Line 4 - 6 - 8)	16,952,710	14,576,352	14,833,351	11,240,399	6,394,170	4,262,511	(2,797,760)	(7,678,938)	(11,891,423)	35,511,303	33,268,746	31,502,091	
10.	Accum Deferred Tax (Line 9 * 41.37%)	7,013,336	6,030,237	6,136,557	4,650,153	2,645,268	1,763,401	(1,157,433)	(3,176,777)	(4,919,482)	14,691,026	13,763,280	13,032,415	
11.	Net Investment (Line 9 - 10)	9,939,374	8,546,115	8,696,794	6,590,246	3,748,902	2,499,110	(1,640,327)	(4,502,161)	(6,971,941)	20,820,277	19,505,466	18,469,676	
12.	Carrying Charge (Line 11 * Carrying Charge Rate)	5,616	4,829	4,914	3,723	2,118	1,412	(927)	(2,544)	(3,939)	11,763	11,021	10,435	48,421
13.	End of Month Balance (Line 9 + 12)	16,958,326	14,581,181	14,838,264	11,244,123	6,396,289	4,263,923	(2,798,687)	(7,681,482)	(11,895,362)	35,523,067	33,279,767	31,512,526	

Table 17: 2017 Electric CIP Tracker (DSM Cost Recovery)

Northern States Power Company, a Minnesota corporation
State of Minnesota - Gas Utility
DSM Cost Recovery and Incentive Mechanism
Tracker and Balance ($)
2017 Actual

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total
EXPENSES	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	
1. Balance	$1,746,885	($1,661,633)	($3,044,757)	($4,285,188)	($4,876,697)	($4,900,415)	($4,528,118)	($4,350,108)	($3,966,127)	($3,583,767)	$2,393,453	$1,038,615	
2. CIP Program Expenditures	644,284	1,244,905	1,411,386	873,828	967,266	1,170,478	951,186	1,113,837	1,243,171	1,182,632	1,346,136	2,032,229	14,181,339
3. 2016 Performance Incentive										6,145,750			6,145,750
4. **Total Expenses** (Line 1 + 2 + 3)	**2,391,169**	**(416,728)**	**(1,633,371)**	**(3,411,360)**	**(3,909,430)**	**(3,729,938)**	**(3,576,932)**	**(3,236,271)**	**(2,722,956)**	**3,744,614**	**3,739,590**	**3,070,844**	
RECOVERY													
5. CCRC Rate ($/Dth)	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	
6. CCRC Cost Recovery	691,269	448,030	451,949	249,455	168,522	135,669	131,423	124,076	146,461	232,276	463,895	685,308	3,928,334
7. CIP Adjustment Factor Rate ($/Dth)	0.25277	0.25277	0.25277	0.25277	0.25277	0.25277	0.25277	0.25277	0.25277	0.25277	0.25277	0.25277	
8. CIP Adjustment Factor Recovery	3,360,437	2,177,990	2,197,041	1,212,664	819,230	659,524	638,883	603,164	711,986	1,120,464	2,237,764	3,305,828	19,044,975
9. **Total Recovery** (Line 6 + 8)	**4,051,706**	**2,626,020**	**2,648,990**	**1,462,119**	**987,752**	**795,193**	**770,306**	**727,240**	**858,447**	**1,352,740**	**2,701,660**	**3,991,136**	
10. Rate Refund	0	0	0	0	0	0	0	0	0	0	0	0	0
11. Sub-Balance (Line 4-9)	(1,660,537)	(3,042,748)	(4,282,361)	(4,873,479)	(4,897,183)	(4,525,130)	(4,347,238)	(3,963,510)	(3,581,403)	2,391,874	1,037,930	(920,291)	
12. Accum Deferred Tax (Line 11 * 41.37%)	(686,964)	(1,258,785)	(1,771,613)	(2,016,158)	(2,025,964)	(1,872,046)	(1,798,452)	(1,639,704)	(1,481,626)	989,518	429,392	(380,725)	(13,513,129)
13. Net Investment (Line 11-12)	(973,573)	(1,783,963)	(2,510,748)	(2,857,321)	(2,871,218)	(2,653,084)	(2,548,786)	(2,323,806)	(2,099,777)	1,402,356	608,538	(539,567)	(19,150,948)
14. Carrying Charge (a) (Line 13 * Carrying Charge Rate)	(1,096)	(2,009)	(2,827)	(3,217)	(3,233)	(2,987)	(2,870)	(2,617)	(2,364)	1,579	685	(608)	(21,564)
15. **End of Month Balance** (Line 11+14)	**(1,661,633)**	**(3,044,757)**	**(4,285,188)**	**(4,876,697)**	**(4,900,415)**	**(4,528,118)**	**(4,350,108)**	**(3,966,127)**	**(3,583,767)**	**2,393,453**	**1,038,615**	**(920,899)**	

Table 18: 2017 Gas CIP Tracker (DSM Cost Recovery)

Table 19: Summary of Electric Tax and Rate Base Factors

The following variables are used in the electric CIP Tracker. These values were established in rate cases. Xcel Energy used the rates approved in its 2012 rate case, which was based off of the 2013 test year, (E002/GR-12-961) beginning December 1, 2013.

Variables	2011	2013	Tax Rates	2011	2013
Number of Months =	12	12	Tax Factor =	3.85%	3.65%
Monthly Carrying Charge =	0.9614%	0.0565%			
Annual Amortization Fctr =	20.00%	20.00%	Accumulated Deferred Tax =	41.37%	41.37%
			Tax Rate =	41.37%	41.37%
Common Equity % =	52.56%	52.56%			
Preferred Equity % =	0.00%	0.00%	Rate Base Factor =	12.17%	11.10%
Total Debt % =	47.44%	47.44%			
Weighted Cost Common Equity =	5.45%	5.17%			
Weighted Cost Pref Equity =	0.00%	0.00%			
Weighted Cost Total Debt =	2.87%	2.28%			
Normal ROI =	8.32%	7.45%			
CCRC ($/MWh)	$2.647	$3.133			

Table 20: Calculation of the Cost of Capital

This table shows the tax factors and capital structure used for the electric cost recovery and return on rate base calculations in Tables 17 (2017 Electric CIP Tracker) and 19 (Summary of Electric Tax and Rate Base Factors).

Capital Structure	Capitalization		Cost of Capital		Weighted Average	
	2011 Test Yr	2013 Test Yr	2011 Test Yr	2013 Test Yr	2011 Test Yr	2013 Test Yr
Long-Term Debt	46.88%	45.30%	6.09%	5.02%	2.86%	2.27%
Short-Term Debt	0.56%	2.14%	2.43%	**0.68%**	0.01%	0.01%
TOTAL DEBT	47.44%	47.44%	8.53%	5.70%	2.87%	2.28%
Preferred Equity	0.00%	0.00%	N/A	N/A	N/A	N/A
Common Equity	52.56%	52.56%	10.37%	9.83%	5.45%	5.17%
TOTAL EQUITY	52.56%	52.56%			5.45%	5.17%
TOTAL CAPITAL	100.00%	100.00%			8.32%	7.45%
MN Tax Rate =					41.37%	41.37%
Normal Return =					8.32%	7.45%
Rate Base Factor =	{ROI - (WTD Cost Debt x Tax Rate)} / (1-Tax Rate)				12.17%	11.10%
Tax Factor =	Rate Base Factor - ROI				3.85%	3.65%
Monthly Carrying Charge Rate Calculation						
Annual Revenue Requirements Factor = {ROI - (WTD Cost Debt x Tax Rate)} / (1-Tax Rate)					12.17%	11.10%
Monthly Revenue Requirements Factor = {(1 + short term debt) to the 1/12 Power} -1					0.9614%	**0.0565%**
						0.000565
CCRC Tracker Rate ($/MWh)					$ 2.647	$ 3.133*

*CCRC Rate = $3.130 per MWh through Sep 2017, $3.133 per MWh starting Oct 1st 2017.

Northern States Power Company
a Minnesota corporation
2017 Electric and Natural Gas CIP Adjustment Rate Report

On March 20, 1995, the Commission approved Xcel Energy's request to implement a CIP Adjustment Factor (Docket No. E002/M-94-1016). This bill rider, adjusted annually, provides the Company with a secondary cost recovery method above the amounts included in base rates (Conservation Cost Recovery Charge or CCRC). The CIP Adjustment Factor is normally approved by the Commission for a 12-month period beginning in the month following the Commission's approval, and is calculated by dividing the forecasted CIP tracker balance by the forecasted sales (kWh or therms) for the period over which the adjustment will be in place. Xcel Energy is required to file a recalculation of its CIP Adjustment Factors each April in conjunction with its financial incentive and CIP status report filings.

The current electric CIP Adjustment Factor of $0.001875 per customer kWh was approved by the Commission on August 25, 2017 in Docket No. E002/M-17-259. This rate was implemented on October 1, 2017 and is designed to reduce the electric CIP Tracker balance to $0 by September 30, 2018. The current natural gas CIP Adjustment Factor of $0.025277 per therm was approved by the Commission on September 12, 2017 in Docket No. G002/M-17-258 and implemented on October 1, 2017. It was also designed to reduce the natural gas CIP Tracker to $0 by September 30, 2018.

Xcel Energy submits this compliance filing and report to support our request of the following:

- Recovery of $30,241,197 for our 2017 electric DSM financial incentives;
- Recovery of $3,753,592 for our 2017 natural gas DSM financial incentive;
- A change in the electric CIP Adjustment Factor from $0.001875 to $0.001730 per kWh effective the first billing cycle beginning in October 2018 through September 2019; and
- A change in the natural gas CIP Adjustment Factor from $0.025277 per therm to $0.011036 per therm effective the first billing cycle beginning in October 2018 through September 2019.

Proposed Electric CIP Adjustment Factor for Period October 2018 Through September 2019

Xcel Energy requests a new electric CIP Adjustment Factor of $0.001730 per customer kWh to be effective with the first billing cycle of October 2018 and to remain in effect through the September 2019 billing period. This proposed factor is calculated to reduce the electric CIP Tracker balance to $0 by the end of September 2019. It is based on the forecasted September 2019 unrecovered balance in the Company's electric CIP Tracker account. This forecasted balance is $47.85 million, based on the forecasted October 1 beginning balance, October 2018 through September 2019 approved and projected expenditures, forecasted 2018 incentives and forecasted CCRC recovery at the current CCRC rate. The inputs and calculation are shown below.

Forecasted beginning balance (Oct 2018)	$25,115,681
Approved expenditures (Oct 2018 - Sept 19)	$95,472,121
Forecasted 2018 incentive	$13,964,073
Less forecasted CCRC recovery (Oct 2018 - Sept 19)	$86,705,715
Forecasted Sept 2019 balance	$47,846,160

As in the past, Xcel Energy will include a message referencing the change in the CIP Adjustment Factor in customers' bills. In the event that Commission approval of the proposed adjustment is delayed beyond September 20, 2018 (in order to implement the rate change by October 1), the Company will continue to apply the current CIP Adjustment of $0.001875 per kWh up to the first cycle of the first full billing period following Commission approval of a revised factor.

Calculation of Revised Electric CIP Adjustment Factor

(1) Forecasted Oct 2019 Electric CIP Tracker Balance	$47,846,160
(2) Forecasted Electric Sales (MWh)– Oct 2018 through Sept 2019[1]	27,674,981
(3) Recalculated Electric CIP Adjustment Rate = (1)/(2)	$1.729/MWh
	$0.001729/kWh

Our above forecasted balance does not include carrying charges. To get as close as possible to a $0 balance by Sept 30, 2019, the calculated rate of $0.001729 per kWh was incrementally increased to incorporate the effect of carrying charges. We determined the final rate by decreasing the calculated rate until the September 2018 forecasted CIP Tracker balance approached zero ($0) without going negative. The resulting rate is **$0.001730 per kWh**. As shown in Table 20, this rate results in a forecasted September 30, 2019 Tracker balance of $1,770.

Proposed Natural Gas CIP Adjustment Factor for Period October 2018 Through September 2019

Xcel Energy requests a new natural gas CIP Adjustment Factor of $0.011036 per therm to be effective with the first billing cycle of October 2018 and remaining in effect through the September 2019 billing period. The proposed factor is based on the forecasted October 1, 2018 unrecovered balance in the Company's gas CIP Tracker account. This forecasted balance is -$5.20 million, based on the forecasted October 1 beginning balance, October 2018 through September 2019 approved and projected expenditures, forecasted 2018 incentive and forecasted CCRC recovery at the current CCRC rate. The inputs and calculation are shown below.

Forecasted beginning balance (Oct 2018)	($5,200,966)
Approved expenditures (Oct 2018 - Sept 19)	$16,946,655
Forecasted 2018 incentive	$2,115,511
Less forecasted CCRC recovery (Oct 2018 - Sept 19)	$4,452,485
Forecasted Oct 2019 balance	$9,408,715

As done in the past, Xcel Energy will include in customers' bills a message referencing the change in the CIP Adjustment Factor. In the event that Commission approval of the proposed factor is delayed beyond September 20, 2018 (in order to implement the rate change by October 1), the Company will continue to apply the current CIP Adjustment Factor of $0.025277 per therm up to the first cycle of the first full billing period following Commission approval of a revised factor.

[1] Forecasted sales exclude the customers exempted from electric CIP charges.

Calculation of Revised Gas CIP Adjustment Rate

(1) Forecasted Oct 2019 Natural Gas CIP Tracker Balance	$9,408,715
(2) Forecasted Gas Sales[2] – October 2018 through September 2019	84,971,094
(3) Recalculated Gas CIP Adjustment Rate = (1)/(2)	$0.11073/ dth
	$0.011073/therm

Our above forecasted balance does not include carrying charges. To get as close as possible to a $0 balance by Sept 30, 2019, the calculated rate of $0.011073 per therm was incrementally decreased to incorporate the effect of carrying charges, which are projected to be negative for several months. We determined the final rate by decreasing the calculated rate until the September 2019 forecasted CIP Tracker balance approached zero ($0) without going negative. The resulting rate is **$0.011036 per therm**. As shown in Table 21, this rate results in a forecasted September 30, 2018 Tracker balance of $20.

[2] Forecasted sales exclude the exempt customers and gas sales to qualifying large energy facilities.

Northern States Power Company, a Minnesota corporation
State of Minnesota- Electric Utility
DSM Cost Recovery & Incentive Mechanism - Total
2018 Forecast

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
	EXPENSES	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	
1.	Balance	31,512,526	28,076,996	24,819,304	24,278,134	20,451,745	15,424,905	12,743,198	5,209,920	(1,218,371)	25,115,681	23,128,206	20,335,988	17,703,571
2.	CIP Program Expenditures	8,734,656	7,189,580	10,667,894[1]	5,935,324	5,771,008	9,609,811	6,573,742	7,238,823	7,593,232	8,605,869	7,459,741	8,813,236	94,192,917
3.	2017 Performance Incentive									30,241,197				30,241,197
4.	Total Expenses + Incentive (Line 1 + 2 + 3)	40,247,182	35,266,576	35,487,198	30,213,459	26,222,753	25,034,717	19,316,940	12,448,743	36,616,059	33,721,551	30,587,947	29,149,224	142,137,686
	RECOVERY													
5.	CCRC Rate ($/MWh)	3.133	3.133	3.133	3.133	3.133	3.133	3.133	3.133	3.133	3.133	3.133	3.133	
6.	CCRC Cost Recovery (CCRC times Sales)	7,619,473	6,540,945	7,017,409	6,111,156	6,758,319	7,692,202	8,826,417	8,549,881	7,199,828	6,829,723	6,609,189	7,377,668	87,132,211
7.	CIP Adjustment Factor Rate ($/MWh)	1.875	1.875	1.875	1.875	1.875	1.875	1.875	1.875	1.875	1.730	1.730	1.730	
8.	CIP Adjustment Factor Recovery (Factor times Sales)	4,560,010	3,914,546	4,199,694	3,657,331	4,044,637	4,603,536	5,282,328	5,116,830	4,308,866	3,771,280	3,649,504	4,073,848	51,182,410
9.	Sub-Balance (Line 4 - 6 - 8)	28,067,699	24,811,085	24,270,095	20,444,972	15,419,797	12,738,979	5,208,195	(1,217,967)	25,107,364	23,120,547	20,329,253	17,697,708	
10.	Accum Deferred Tax (Line 9 * 41.37%)	11,611,607	10,264,346	10,040,538	8,458,085	6,379,170	5,270,115	2,154,630	(503,873)	10,386,917	9,564,970	8,410,212	7,321,542	
11.	Net Investment (Line 9 - 10)	16,456,092	14,546,739	14,229,556	11,986,887	9,040,627	7,468,863	3,053,565	(714,094)	14,720,448	13,555,577	11,919,041	10,376,166	
12.	Carrying Charge (Line 11 * Carrying Charge Rate)	9,298	8,219	8,040	6,773	5,108	4,220	1,725	(403)	8,317	7,659	6,734	5,863	71,551
13.	End of Month Balance (Line 9 + 12)	28,076,996	24,819,304	24,278,134	20,451,745	15,424,905	12,743,198	5,209,920	(1,218,371)	25,115,681	23,128,206	20,335,988	17,703,571	

1 - Includees Expected Spend March 2018 plus $6,867 in Solar Energy Standard Customer Exclusion Credit (Docket No. E-002/M-17-425) and $2,285 in underestimated CCRA Recovery in November and December 2017 tracker.

Table 21: 2018 Electric CIP Tracker Forecast, With Cost Recovery in 2018

Northern States Power Company, a Minnesota corporation
State of Minnesota- Electric Utility
DSM Cost Recovery & Incentive Mechanism - Total
2019 Forecast

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	EXPENSES	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
1.	Balance	17,703,571	14,937,483	12,166,294	12,221,028	8,842,677	4,289,153	2,184,627	(4,641,703)	(10,529,663)
2.	CIP Program Expenditures	8,897,030	7,323,232	10,856,884	6,045,660	5,878,290	9,788,455	6,695,945	7,373,390	7,734,388
3.	2018 Performance Incentive									13,964,073
4.	Total Expenses + Incentive (Line 1 + 2 + 3)	26,600,601	22,260,714	23,023,178	18,266,689	14,720,966	14,077,608	8,880,573	2,731,688	11,168,798
	RECOVERY									
5.	CCRC Rate ($/MWh)	3.133	3.133	3.133	3.133	3.133	3.133	3.133	3.133	3.133
6.	CCRC Cost Recovery (CCRC times Sales)	7,517,180	6,505,952	6,961,919	6,073,330	6,721,637	7,662,549	8,710,770	8,541,412	7,194,387
7.	CIP Adjustment Factor Rate ($/MWh)	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730
8.	CIP Adjustment Factor Recovery (Factor times Sales)	4,150,885	3,592,498	3,844,277	3,353,610	3,711,597	4,231,155	4,809,969	4,716,452	3,972,642
9.	Sub-Balance (Line 4 - 6 - 8)	14,932,536	12,162,265	12,216,981	8,839,748	4,287,733	2,183,904	(4,640,166)	(10,526,176)	1,769
10.	Accum Deferred Tax (Line 9 * 41.37%)	6,177,590	5,031,529	5,054,165	3,657,004	1,773,835	903,481	(1,919,636)	(4,354,679)	732
11.	Net Investment (Line 9 - 10)	8,754,946	7,130,736	7,162,816	5,182,744	2,513,898	1,280,423	(2,720,529)	(6,171,497)	1,037
12.	Carrying Charge (Line 11 * Carrying Charge Rate)	4,947	4,029	4,047	2,928	1,420	723	(1,537)	(3,487)	1
13.	End of Month Balance (Line 9 + 12)	14,937,483	12,166,294	12,221,028	8,842,677	4,289,153	2,184,627	(4,641,703)	(10,529,663)	1,770

Table 22: 2019 Electric CIP Tracker Forecast, With Cost Recovery in 2019

Northern States Power Company, a Minnesota corporation
State of Minnesota - Gas Utility
DSM Cost Recovery and Incentive Mechanism
Tracker and Balance ($)
2018

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total
EXPENSES	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	
1. Balance	($920,899)	($4,097,707)	($6,173,010)	($7,831,252)	($8,997,145)	($9,473,758)	($9,331,551)	($9,551,112)	($9,402,383)	($5,200,966)	($4,361,958)	($3,776,051)	
2. CIP Program Expenditures	1,097,409	1,444,362	1,637,516	1,013,831	1,122,241	1,358,011	1,103,584	1,292,295	1,442,351	1,372,111	1,561,813	2,357,831	16,803,354
3. 2017 Performance Incentive			99,993 [2]						3,753,592				3,853,585
4. **Total Expenses** (Line 1 + 2 + 3)	**176,510**	**(2,653,344)**	**(4,435,501)**	**(6,817,420)**	**(7,874,904)**	**(8,115,748)**	**(8,227,967)**	**(8,258,817)**	**(4,206,440)**	**(3,828,854)**	**(2,800,145)**	**(1,418,221)**	
RECOVERY													
5. CCRC Rate ($/Dth)	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	
6. CCRC Cost Recovery	733,451	603,654	582,189	373,256	273,462	207,705	226,112	195,294	170,178	170,704	313,388	557,361	4,406,755
7. CIP Adjustment Factor Rate ($/Dth)	0.25277	0.25277	0.25277	0.25277	0.25277	0.25277	0.25277	0.25277	0.25277	0.11036	0.11036	0.11036	
8. CIP Adjustment Factor Recovery	3,538,062	2,911,939	2,808,396	1,800,533	1,319,142	1,001,941	1,090,732	942,069	820,916	359,521	660,028	1,173,863	18,427,141
9. **Total Recovery** (Line 6 + 8)	**4,271,514**	**3,515,593**	**3,390,585**	**2,173,789**	**1,592,604**	**1,209,646**	**1,316,844**	**1,137,363**	**991,094**	**530,226**	**973,415**	**1,731,224**	
10. Rate Refund	0	0	0	0	0	0	0	0	0	0	0	0	0
11. Sub-Balance (Line 4-9)	(4,095,003)	(6,168,937)	(7,826,085)	(8,991,209)	(9,467,508)	(9,325,394)	(9,544,811)	(9,396,180)	(5,197,534)	(4,359,080)	(3,773,560)	(3,149,445)	
12. Accum Deferred Tax (Line 11 * 41.37%)	(1,694,103)	(2,552,089)	(3,237,652)	(3,719,663)	(3,916,708)	(3,857,916)	(3,948,688)	(3,887,200)	(2,150,220)	(1,803,351)	(1,561,122)	(1,302,926)	(33,631,637)
13. Net Investment (Line 11-12)	(2,400,900)	(3,616,848)	(4,588,434)	(5,271,546)	(5,550,800)	(5,467,479)	(5,596,123)	(5,508,980)	(3,047,314)	(2,555,729)	(2,212,438)	(1,846,520)	(47,663,111)
14. Carrying Charge (a) (Line 13 * Carrying Charge Rate)	(2,703)	(4,073)	(5,167)	(5,936)	(6,250)	(6,156)	(6,301)	(6,203)	(3,431)	(2,878)	(2,491)	(2,079)	(53,669)
15. **End of Month Balance** (Line 11+14)	**(4,097,707)**	**(6,173,010)**	**(7,831,252)**	**(8,997,145)**	**(9,473,758)**	**(9,331,551)**	**(9,551,112)**	**(9,402,383)**	**(5,200,966)**	**(4,361,958)**	**(3,776,051)**	**(3,151,524)**	

Table 23: 2018 Gas CIP Tracker Forecast, With Cost Recovery in 2018

2 - Includes understated 2016 Performance Incentive of $6,145,750 in 2017 Tracker versus $6,245,743 in approved 2016 Performance Incentive (August 25, 2017 Compliance Filing 2017/2018 Natural Gas CIP Adjustment Factor.

Northern States Power Company, a Minnesota corporation
State of Minnesota - Gas Utility

DSM Cost Recovery and Incentive Mechanism
Tracker and Balance ($)
2019 Forecast

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept
	EXPENSES	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
1.	Balance	($3,151,524)	($4,644,928)	($4,997,244)	($5,070,925)	($5,285,833)	($4,994,419)	($4,244,333)	($3,779,229)	($3,113,795)
2.	CIP Program Expenditures	780,541	1,508,184	1,709,872	1,058,629	1,171,829	1,418,017	1,152,348	1,349,397	1,506,083
3.	2018 Performance Incentive									2,115,511
4.	**Total Expenses** (Line 1 + 2 + 3)	**(2,370,983)**	**(3,136,744)**	**(3,287,371)**	**(4,012,296)**	**(4,114,004)**	**(3,576,402)**	**(3,091,985)**	**(2,429,832)**	**507,799**
	RECOVERY									
5.	CCRC Rate ($/Dth)	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524
6.	CCRC Cost Recovery	731,102	597,920	573,132	408,888	282,386	214,136	220,453	219,538	163,478
7.	CIP Adjustment Factor Rate ($/Dth)	0.11036	0.11036	0.11036	0.11036	0.11036	0.11036	0.11036	0.11036	0.11036
8.	CIP Adjustment Factor Recovery	1,539,779	1,259,283	1,207,076	861,162	594,734	450,994	464,298	462,370	344,302
9.	**Total Recovery** (Line 6 + 8)	**2,270,880**	**1,857,203**	**1,780,208**	**1,270,050**	**877,120**	**665,131**	**684,751**	**681,908**	**507,779**
10.	Rate Refund	0	0	0	0	0	0	0	0	0
11.	Sub-Balance (Line 4-9)	(4,641,864)	(4,993,947)	(5,067,580)	(5,282,346)	(4,991,124)	(4,241,533)	(3,776,736)	(3,111,741)	20
12.	Accum Deferred Tax (Line 11 * 41.37%)	(1,920,339)	(2,065,996)	(2,096,458)	(2,185,307)	(2,064,828)	(1,754,722)	(1,562,436)	(1,287,327)	8
13.	Net Investment (Line 11-12)	(2,721,525)	(2,927,951)	(2,971,122)	(3,097,039)	(2,926,296)	(2,486,811)	(2,214,300)	(1,824,414)	12
14.	Carrying Charge (a) (Line 13 * Carrying Charge Rate)	(3,064)	(3,297)	(3,345)	(3,487)	(3,295)	(2,800)	(2,493)	(2,054)	0
15.	**End of Month Balance** (Line 11+14)	**(4,644,928)**	**(4,997,244)**	**(5,070,925)**	**(5,285,833)**	**(4,994,419)**	**(4,244,333)**	**(3,779,229)**	**(3,113,795)**	**20**

Table 23: 2019 Gas CIP Tracker Forecast, With Cost Recovery in 2019

Northern States Power Company
a Minnesota corporation
2017 CIP Financial Incentive Calculations
Cost-Effectiveness & Performance Mechanism Report
Reference Docket Nos. E,G999/CI-08-133 & E002/M-11-1101

In 2010, the Commission approved a new Shared Savings Incentive Mechanism (Docket No. E,G999/CI-08-133). The shared savings incentive mechanism awards a percentage of the net benefits created by a utility's energy conservation program, beginning once a utility surpasses its earnings threshold. The August 5, 2016 ORDER ADOPTING MODIFICATIONS TO SHARED SAVINGS DEMAND-SIDE MANAGEMENT FINANCIAL INCENTIVE PLAN modified the incentive mechanism to set a fixed range of percentages of net benefits based on the % of sales savings achieved, each year for the 2017, 2018 and 2019 DSM Plan years. The percentage of net benefits awarded increases as achievements increase, up to a cap of percent of net benefits awarded and a cap of total spend. Additionally, during the 2013 Legislature, a provision was added to MN Statute 216B.241, subdivision 7, which allows utilities the option to exclude the net benefits of low-income programs, if negative, from the calculation of the DSM financial incentive.

Xcel Energy's 2017 CIP portfolio achieved electric energy savings of over 658 GWh which will provide net benefits of over $222 million to Xcel Energy electric customers. The Company also achieved gas savings of 799,597 Dth, which will provide Xcel Energy customers with net benefits of more than $28 million. As a result of these achievements, we request approval of a 2017 CIP electric financial incentive of $30,241,197 and a 2017 natural gas financial incentive of $3,753,592.

The performance measurements of Xcel Energy's individual electric and natural gas CIP programs, including indirect impact programs, are reported in Tables 2 and 3, respectively. The cost-effectiveness of individual programs is reported in the Cost-Effectiveness Report included in this filing.

Northern States Power Company
a Minnesota corporation
2017 Financial Incentive Calculations

In accordance with the Minnesota PUC Orders dated January 27, 2010 and August 5, 2016 (Docket No. E,G999/CI-08-133), and the Minnesota PUC Order dated March 12, 2012 (Docket No. E-002/M-11-1101), Xcel Energy respectfully submits these financial incentive calculations.

In 2017, the Company achieved electric energy savings of 658,274,791 kWh at the generator (152% of 1.5% goal) at a cost of $109,109,805 (113% of budget). As a result, we respectfully request approval of our CIP electric financial incentive in the amount of $30,241,197.

CIP Electric Financial Incentive Calculation

According to the Order in Docket No. E,G999/CI-08-133, certain expenses and savings are excluded from the incentive calculation, including regulatory assessments, electric utility infrastructure projects, qualifying solar projects, and third party projects not selected for inclusion in the annual incentive compliance filing. Further, in the September 12, 2016 Decision in Docket No. E999/CIP-16-541 IN THE MATTER OF AVOIDED TRANSMISSION AND DISTRIBUTION COST STUDY FOR ELECTRIC 2017-2019 CIP TRIENNIAL PLAN allowed for any expenses for the cost of the Transmission and Distribution Cost Study to be backed out of the benefit/cost analysis for the financial incentive. As stated in our January 30, 2013 incentive compliance filing, we elected to include the One Stop Shop program administered by the Center for Energy and the Environment (CEE).[1] The indirect impact third party programs—Enerchange, Energy Intelligence, Energy Smart, and Trillion Btu—are not included in the calculation of the incentive. In addition, during the 2013 Legislature, a provision was added to MN Statute 216B.241, subdivision 7, which allows utilities to exclude the net benefits of low-income programs from the calculation of net benefits for the incentive if the net benefits are negative.

Model Year Inputs

3-year Weather Normalized Sales Average (kWh)	28,947,563,800

Incentive Mechanism

Max Percent of Net Benefits Awarded	13.5%
Max Percent Expenditures Awarded	40.0%
Earnings Threshold	0.7%
Net Benefits Cap Achievement Level	1.7%
Increase in Net Benefits Awarded Per 0.1% Increase in Achievement Level	0.75%

Summary of 2017 Achievements

Actual Spending for Incentive[2]	$103,078,667
Actual Energy Savings (kWh)[3]	658,274,791
Net Benefits Achieved[4]	$224,008,869

[1] Docket No. E,G999/CI-08-133 and Docket No. E,G002/CI-10-81.
[2] Portfolio Subtotal spend plus CEE One-Stop Shop spend.
[3] Portfolio Subtotal energy savings plus CEE One-Stop Shop energy savings.
[4] The net benefits are equal to the utility test net benefits shown on Electric CIP Total cost-benefit analysis plus the utility test net benefits shown on the CEE One Stop Shop cost-benefit analysis, included in the Cost-Effectiveness Section. Excludes any net costs from low-income low-income programs that failed the Utility Test. Excludes costs from Transmission and Distribution Cost Study.

2017 Financial Incentive Mechanism

In order to calculate the CIP financial incentive, it is necessary to calculate the percent of net benefits awarded. The following calculations and incentive table detail Xcel Energy's financial incentive.

% of Sales Achievement Level =

Actual Energy Savings (kWh) / 3-year Weather Normalized Sales Average (kWh) =

658,274,791/28,947,563,800

= 2.27%

Percent of Net Benefits Awarded =

Max Percent of Net Benefits Awarded – Increase in Net Benefits Awarded Per 0.1% Increase in Achievement Level x (% of Sales Achievement Level less than Net Benefits Cap Achievement Level) / 0.1% =

13.5% - 0.75% x (2.27% less than 1.7%) = 13.5% - 0.75% x 0 / 0.1%

= 13.5%

Expenditures Award Cap =

Max Percent Expenditures Awarded x Actual Spend for Incentive =

40% x $103,078,667

= $41,231,467

Incentive Awarded =

Net Benefits Achieved x Percent of Net Benefits Awarded less than Expenditures Award Cap =

$224,008,869 x 13.5% less than $41,231,467

= **$30,241,197**

2017 Electric Incentive Request

Based on the above calculation, Xcel Energy respectfully requests approval of a CIP financial incentive of $30,241,197.

Northern States Power Company
a Minnesota corporation
2017 Natural Gas Incentive Calculation

In accordance with the Minnesota PUC Orders dated January 27, 2010 and August 5, 2016 (Docket No. E,G999/CI-08-133), and the Minnesota PUC Order dated March 12, 2012 (Docket No. E-002/M-11-1101), Xcel Energy respectfully submits these financial incentive calculations.

In 2017, Xcel Energy achieved energy savings of 799,597 Dth (111% of goal) at a cost of $14,181,339 (86% of budget). As a result, we respectfully request approval of our financial incentive in the amount of $3,753,592.

According to the Order in Docket No. E,G999/CI-08-133, certain expenses and savings are excluded from the natural gas incentive calculation, including regulatory assessments and third party projects not selected for inclusion in the annual incentive compliance filing. As stated in our January 30, 2013 incentive compliance filing, we elected not to include any of the natural gas third party programs in the calculation of the incentive.[5]

Model Year Inputs

3-yr Weather Normalized Sales Average (Dth)	71,897,513

Incentive Mechanism

Max Percent of Net Benefits Awarded	13.5%
Max Percent Expenditures Awarded	40.0%
Earnings Threshold	0.7%
Net Benefits Cap Achievement Level	1.2%
Increase in Net Benefits Awarded Per 0.1% Increase in Achievement Level	0.75%

Summary of 2017 Achievements

Actual Spending for Incentive	$13,778,144
Actual Energy Savings (Dth)	799,597
Net Benefits Achieved[6]	$29,231,281

2016 Financial Incentive Mechanism

In order to calculate the financial incentive achieved, it is necessary to calculate the percent of net benefits awarded. The following calculations and incentive table detail Xcel Energy's financial incentive.

% of Sales Achievement Level =

Actual Energy Savings (Dth) / 3-year Weather Normalized Sales Average (Dth) =

799,597 / 71,897,513

[5] Docket No. E,G999/CI-08-133 and Docket No. G002/M-16-108.

[6] The net benefits are equal to the utility test net benefits shown on the Total Gas CIP with Indirect Participants BENCOST sheet included in the Cost-Effectiveness section. Excludes any net costs from low-income low-income programs that failed the Utility Test.

= 1.11213%

Percent of Net Benefits Awarded =

Max Percent of Net Benefits Awarded – Increase in Net Benefits Awarded Per 0.1% Increase in Achievement Level x (% of Sales Achievement Level less than Net Benefits Cap Achievement Level) / 0.1% =

13.5% - 0.75% x (1.11213% less than 1.2%) = 13.5% - 0.75% x 0.08787% / 0.1% =

= 12.8410%

Expenditures Award Cap =

Max Percent Expenditures Awarded x Actual Spend for Incentive =

40% x $13,778,144

= $5,511,257

Incentive Awarded =

Net Benefits Achieved x Percent of Net Benefits Awarded less than Expenditures Award Cap =

$29,211,800 x 12.8410% less than $5,511,257

= **$3,753,592**

2017 Gas Incentive Request

Based on the above calculation, Xcel Energy respectfully requests approval of a financial incentive of $3,753,592.

Summary of 2017 CIP Employee Expenses

Employee Expense Category	**Amount**
Airfare	$24,535.71
Hotel	$32,735.45
Car Rental	$551.73
Taxi/bus	$2,084.62
Mileage	$34,686.91
Parking	$4,568.14
Business Meals- Employees Only	$12,177.11
Business Meals- Including Non-Employees	$38,851.34
Conferences/Seminars/Training	$53,511.40
Total Employee Expenses	**$203,702.41**

Electric CIP Adjustment Factor 24-Month Forecast

	$/MWh	
	2018	2019
January	$1.875	$1.730
February	$1.875	$1.730
March	$1.875	$1.730
April	$1.875	$1.730
May	$1.875	$1.730
June	$1.875	$1.730
July	$1.875	$1.730
August	$1.875	$1.730
September	$1.875	$1.730
October	$1.730	$0.966
November	$1.730	$0.966
December	$1.730	$0.966

Disclaimer

The forecasted rates are based on recovering the Company's approved and estimated future CIP expenses and estimated performance incentives over the forecast period.

The actual rate request will be based on the most current approved costs, approved incentives, and under or over recovery at the time of filing, and is subject to approval by the Minnesota Public Utilities Commission. The approved adjustment factors may differ from the forecast.

Redline

APPLICABILITY
Applicable to bills for electric service provided under the Company's retail rate schedules. Exemptions are as follows:

"Large Customer Facility" customers that have been exempted from the Company's Conservation Improvement Program charges pursuant to Minn. Stat. 216B.241 subd. 1a (b) shall receive a monthly exemption from conservation improvement program charges pursuant to Minn. Stat. 216B.16, subd. 6b Energy Conservation Improvement. Such monthly exemption will be effective beginning January 1 of the year following the grant of exemption. Upon exemption from conservation program charges, the "Large Customer Facility" customers can no longer participate in the Company's Energy Conservation Improvement Program.

RIDER
There shall be included on each non-exempt customer's monthly bill a Conservation Improvement Program (CIP) Adjustment, which shall be calculated by multiplying the monthly applicable billing kilowatt hours (kWh) by the CIP Adjustment Factor.

DETERMINATION OF CONSERVATION IMPROVEMENT PROGRAM ADJUSTMENT FACTOR
The CIP Adjustment Factor shall be calculated for each customer class by dividing the Recoverable Conservation Improvement Program Expense by the Projected Retail Sales for a designated recovery period. The factor may be adjusted annually with approval of the Minnesota Public Utilities Commission. The CIP Adjustment Factor for all rate schedules is:

All Classes	~~$0.001875~~$0.001730 per kWh	R

Recoverable Conservation Improvement Program Expense shall be the CIP expense not recovered through base rates as determined from the CIP Tracker account balance for a designated period. All costs appropriately charged to the CIP Tracker Account shall be eligible for recovery through this Rider. All revenues received from the CIP Adjustment Factor shall be credited to the CIP Tracker Account.

Projected Retail Sales shall be the estimated kilowatt-hour sales to all non-exempt customers for the designated recovery period.

(Continued on Sheet No. 5-92.1)

Clean

APPLICABILITY

Applicable to bills for electric service provided under the Company's retail rate schedules. Exemptions are as follows:

"Large Customer Facility" customers that have been exempted from the Company's Conservation Improvement Program charges pursuant to Minn. Stat. 216B.241 subd. 1a (b) shall receive a monthly exemption from conservation improvement program charges pursuant to Minn. Stat. 216B.16, subd. 6b Energy Conservation Improvement. Such monthly exemption will be effective beginning January 1 of the year following the grant of exemption. Upon exemption from conservation program charges, the "Large Customer Facility" customers can no longer participate in the Company's Energy Conservation Improvement Program.

RIDER

There shall be included on each non-exempt customer's monthly bill a Conservation Improvement Program (CIP) Adjustment, which shall be calculated by multiplying the monthly applicable billing kilowatt hours (kWh) by the CIP Adjustment Factor.

DETERMINATION OF CONSERVATION IMPROVEMENT PROGRAM ADJUSTMENT FACTOR

The CIP Adjustment Factor shall be calculated for each customer class by dividing the Recoverable Conservation Improvement Program Expense by the Projected Retail Sales for a designated recovery period. The factor may be adjusted annually with approval of the Minnesota Public Utilities Commission. The CIP Adjustment Factor for all rate schedules is:

All Classes	$0.001730 per kWh	R

Recoverable Conservation Improvement Program Expense shall be the CIP expense not recovered through base rates as determined from the CIP Tracker account balance for a designated period. All costs appropriately charged to the CIP Tracker Account shall be eligible for recovery through this Rider. All revenues received from the CIP Adjustment Factor shall be credited to the CIP Tracker Account.

Projected Retail Sales shall be the estimated kilowatt-hour sales to all non-exempt customers for the designated recovery period.

(Continued on Sheet No. 5-92.1)

CERTIFICATE OF SERVICE

I, Jim Erickson, hereby certify that I have this day served copies of the foregoing document on the attached list of persons.

xx by depositing a true and correct copy thereof, properly enveloped with postage paid in the United States mail at Minneapolis, Minnesota; or

xx by electronic filing.

Docket No.: E002/M-18-__ & CIP Special Service List

Dated this 30th day of March 2018.

/s/

_____

Jim Erickson
Regulatory Administrator

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Daniel P	Wolf	dan.wolf@state.mn.us	Public Utilities Commission	121 7th Place East Suite 350 St. Paul, MN 551012147	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
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Ray	Choquette	rchoquette@agp.com	Ag Processing Inc.	12700 West Dodge Road PO Box 2047 Omaha, NE 68103-2047	Electronic Service	No	SPL_SL__CIP SPECIAL SERVICE LIST
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1800 St. Paul, MN 55101	Electronic Service	No	SPL_SL__CIP SPECIAL SERVICE LIST
Gary	Connett	gconnett@grenergy.com	Great River Energy	12300 Elm Creek Blvd N Maple Grove, MN 553694718	Electronic Service	No	SPL_SL__CIP SPECIAL SERVICE LIST
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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