

Minneapolis Climate Action Plan

CenterPoint Energy Conservation Improvement Programs

Al Swintek, CenterPoint Energy

Four Objectives



- 1) High Level Program Overview
- 2) Commercial CIP Programs
- 3) Residential CIP Programs
- 4) Greatest Opportunities

The Next Generation Energy Act of 2007



- Old Statute = Spending Goal
0.5% of gross operating revenue on energy efficiency programs
- New Statute = Saving Goal
1-1.5% of natural gas throughput through energy efficiency programs

Historic Perspective

- Mature program- Existed since the early 1990's
 - Saved 12 BCF since 1992
 - Equivalent to use of 130,000 residential customers for one year
 - 641,456 Metric Tons of CO₂
- 2011 Goal: 1,164,695 Dth saved
- 2011 Actual: 1,500,000 Dth saved (80,182 Metric Tons CO₂)
- 2011 Budget: \$21.5 Million

CIP Savings - Looking Ahead



	Goal = 2012 – 2015 Actual = 1992 - 2011	CO2 reduction (mt)
2015*	1,360,000	72,698
2014*	1,360,000	72,698
2013*	1,360,000	72,698
2012	1,243,000	66,444
2011	1,500,000	80,182
1992 - 2010	12,000,000	641,456

** 2013 – 2015 goals are currently being drafted – not yet approved*

2010-2012 CIP Triennial Plan- Commercial / Industrial Offerings



- Boiler System Rebates
- Boiler Tune-up Rebates
- Boiler System Components Rebates
- Forced-air Furnace Rebates
- Unit Heater Rebates
- Infrared Heater Rebates
- Foodservice Rebates
- Engineering Assistance
- LEED Certification
- Industrial Audits
- Custom Energy Analysis
- Custom Process Rebate – Very large projects; almost half of C/I energy savings.

Boiler System Rebates



BOILER AND SYSTEM COMPONENT REBATES

Equipment	Efficiency requirement**	Rebate amount
High-efficiency hot water boilers Up to 12.5 MMBtu	85% - 87.9%	\$1,700/MMBtuh input + [\$200/MMBtuh input x (New efficiency rating - 85)]
High-efficiency hot water boilers Up to 12.5 MMBtu	≥88%	\$2,700/MMBtuh input + [\$200/MMBtuh input x (New efficiency rating - 88)]
Low-pressure steam boilers <360,000 Btuh input	≥84%	\$400/100,000 Btuh input + [\$100/100,000 Btuh input x (New efficiency rating - 84)]
Low-pressure steam boilers ≥360,000 Btuh input	≥84%	\$1,300/MMBtuh input + [\$200/MMBtuh input x (New efficiency rating - 84)]
High-pressure steam boilers <360,000 Btuh input	≥83%	\$400/100,000 Btuh input + [\$100/100,000 Btuh input x (New efficiency rating - 83)]
High-pressure steam boilers >360,000 Btuh input	≥83%	\$1,000/MMBtuh input + [\$200/MMBtuh input x (New efficiency rating - 83)]

Boiler efficiency rating to represent the designed/installed operating efficiency of the boiler for the application (i.e. based on designed return water temperature, average input level, steam pressure, etc.)

Other Heating System Rebates



OTHER HEATING SYSTEMS REBATES

Equipment	Unit size in Btuh input	Efficiency requirement	Rebate amount
Forced air furnaces	<225,000 Btuh	92% - 93.9% AFUE	\$150 per furnace
Forced air furnaces	<225,000 Btuh	94% - 95.9% AFUE	\$300 per furnace
Forced air furnaces	<225,000 Btuh	96% or greater AFUE	\$400 per furnace
Unit heaters	All sizes	83% or greater thermal efficiency	\$300 per heater; not to exceed 25% of equipment cost
Infrared heaters	All sizes	Low intensity	\$250 per heater

Water Heater Rebates

Water heater \geq 88% thermal efficiency

Water heater rebates available

Btu input	Rebate
100,000	\$200
125,000	\$250
150,000	\$300
175,000	\$350
200,000	\$400

All water heater rebate amounts have increased from 2009!



Foodservice Equipment Rebates



Equipment Type	Rebate Amount
Booster Water Heater	\$500 per unit
Broiler (infrared upright)	\$600 per unit
Charbroiler (infrared)	\$300 per unit
Combi Oven	\$1,000 per unit
Convection Oven	\$500 per unit <i>Increased from 2009!</i>
Conveyor Oven	\$750 per unit
Dishwasher	\$750 per unit
Fryer (high-efficiency or infrared)	\$250 per unit
Pasta Cooker	\$200 per unit
Rotating Rack Oven	\$500 per unit
Rotisserie Oven (infrared)	\$500 per unit
Salamander Broiler (infrared)	\$150 per unit
Steam Equipment*	\$200 per unit

For more information on Foodservice Equipment rebates, contact Ann Lovcik at (612) 321-5470, 800-234-5800, ext. 5470.

*Ask about qualifying units. Some restrictions apply.

What is the custom rebate program?

The custom rebate program is designed to provide rebate opportunities to natural gas saving technologies not covered in our Prescriptive rebate offerings. **Projects are reviewed and approved on a “case-by-case” basis.**

For a project to be approved for a custom rebate:

- Contact us early on in the idea or proposal stage to review the project.
- Provide project scope, energy savings calculations and project costs (new custom rebate application available soon).

Some custom rebate technologies include:

- High efficiency curing and coating systems
- Energy recovery systems
- Air destratification systems
- High efficiency process steam and hot water systems
- Thermal curtains
- Make-up air/Exhaust control systems
- Pipe insulation
- Regenerative thermal oxidizers

Commercial Energy Recovery

A customer put an addition on to their commercial facility. The additional square footage required a new air handler to be added to the building. The customer had the option to add an energy recovery wheel to the new air handler.

<i>Heat Recovery Option Cost</i>	<i>\$26,000</i>
<i>Annual Energy Savings</i>	<i>1,100 Dth</i>
<i>CenterPoint Energy Rebate</i>	<i>\$3,300</i>
<i>Annual Cost Savings*</i>	<i>\$8,943</i>
<i>Payback (with rebate)</i>	<i>~2.6 years</i>

**** Annual Cost Savings based on \$8.13/Dth Natural Gas Cost***

Custom Energy Analysis



What is it?

A certified energy auditor (appointed by CenterPoint Energy) will conduct an in-depth assessment of your facility and natural gas use, identify specific needs and issues, thoroughly inspect your facility, and provide a detailed written report with specific energy-saving recommendations. **Now is a great time to have an analysis completed!**

Who should get a Custom Energy Analysis?

Small-to-mid sized operations such as schools, churches, restaurants, multi-family housing and many commercial facilities.

What's in the report?

- Estimated costs to implement the suggested improvements
- Projected energy savings
- Potential CenterPoint Energy rebates
- Estimated payback period if changes are made

What is the cost?

Valued at more than \$1,400, CenterPoint Energy customers pay just a co-pay of \$200!

Engineering Assistance Program



What is it?

Financial Support to alleviate Engineering costs associated with Evaluating and Designing Energy Efficient Process Systems as well as Retrofitting Entire Central Heating Plants.

What is the potential amount of assistance available?

- Up to \$5,000 per project assistance available (not to exceed 50% of anticipated fees)
- Payment Breakdown
 - Up to \$2,500 payable upon receipt of engineering study
 - Up to \$2,500 more upon installation of qualifying rebate-able equipment

To qualify:

- CenterPoint Energy must pre-approve the application for Engineering Assistance
- Project report and plans must be prepared by a registered Professional Engineer
- Submit appropriate supporting documentation to CenterPoint Energy

Residential Rebate Programs



- Heating System Rebates
- Water Heating Rebates
- Low Flow Showerheads & Faucet Aerators (**Free!**)
- Air-sealing & Insulation Rebates
- Pilot-less Hearth Rebates
- Home Energy Audits
- Low-income Weatherization
- Home Energy Reports
- Home Energy Squad (**Joint offering with Xcel Energy**)

Residential Heating System Rebates



Higher rebates and expanded program

Forced air furnaces

- \$150 rebate** 92%-93.9% AFUE forced air furnaces
- \$300 rebate** 94%-95.9% AFUE forced air furnaces
- \$400 rebate** 96% AFUE or greater forced air furnaces

Natural gas boilers

- \$300 rebate** 83.5%-90.9% AFUE boiler
- \$500 rebate** 91% and greater AFUE condensing boiler

NEW

- \$25 rebate** For programmable thermostat installed with any qualifying heating system.

Important notes-

- Customer can purchase equipment from the heating dealer of their choice.
- Customer can't buy thermostat from a retailer and get a rebate.



Higher rebates and expanded program

\$70 rebate .62 EF storage tank natural gas water heater

\$85 rebate .64 EF storage tank natural gas water heater

\$100 rebate .67 EF storage tank natural gas water heater

NEW

\$200 rebate Indirect water heater installed with a 91% AFUE or greater condensing natural gas boiler

Important notes-

- CenterPoint Energy does not rebate tankless water heaters.
- Customer can buy from the heating dealer, plumber or retailer of their choice.



Free Low Flow Showerheads and Faucet Aerators – Enhanced Program!



- Now offering low flow showerheads, [plus low flow kitchen and bathroom faucet aerators!](#)
 - Eligible customers may order multiple units:
maximum 3 showerheads, and maximum 3 aerators in any combination.
- Showerheads now available in two versions to provide consumers choice to match their décor.
 - Chrome
 - Ivory

Residential Energy Audit



- Program and audit services continue largely unchanged in 2011.

Basic Audit (\$25 co-pay)

Standard Audit (\$100 co-pay)



- **Basic Audit** provides homeowners an overview of their home's energy use and recommendations for efficiency improvements.
- **Standard Audit** is more in-depth, and includes a blower door test, infrared camera inspection and combustion safety test to more precisely identify areas for improvement.
- Homeowners will still receive up to \$25 in free weatherization materials during the audit.

Electronic Ignition Hearth Rebates



NEW in 2010

Natural gas hearth products with electronic ignition which is also sealed combustion/direct vent.

- Free-standing stoves
- Fireplace
- Insert

\$75 Rebate to customer



Important notes-

- Customer can purchase from the dealer or hearth retailer of their choice.

Insulation Rebates - **NEW!**



- Homeowners may receive rebate dollars to improve their home's energy efficiency.
 - Seal attic bypasses and add attic insulation
- Rebate covers 50% of cost to improve home's air sealing and insulation, up to a maximum of \$350.
- Requirements:
 - Home assessment by a state-certified energy auditor
 - CenterPoint Energy offers a convenient way to obtain assessment through the Residential Energy Audit program (Standard Audit only - \$100 co-pay)
 - Submit rebate form, as with other residential rebates; CNP mails a check to homeowner

Home Energy Squad



- Innovative program designed to help homeowners make the changes in their homes to improve energy efficiency.
 - Jointly supported by CenterPoint Energy and Xcel Energy
- Home Energy Squad will operate under its own name
- Customers choose from two pre-set efficiency improvement packages:
 - \$50 – Home Energy Squad Basic
 - \$80 – Home Energy Squad Standard
 - Weather stripping, CFL light bulbs, programmable thermostats, etc.
 - Additional items available on an à la carte basis.
- Customer pays for materials.
- CenterPoint Energy and Xcel pay for the labor to install materials.
- Consumers contact Home Energy Squad directly by phone or web.
 - 866-222-4595
 - www.homeenergysquad.net

Home Energy Reports – **NEW!**



- The Home Energy Report Project combines technology, direct marketing and behavioral science to maximize saving potential in designated residential participants.
- The Home Energy Reporting System is a unique software platform that combines energy usage data with customer demographic, housing and GIS data to develop specific, targeted recommendations that educate and motivate consumers to reduce their energy consumption.
- In 2011, 100,000 CenterPoint Energy customers were selected to participate in the program. Participants will be evaluated against a 100,000 customer control group.

- **Home Energy Reports show customers:**
 - Natural gas usage compared to the average of 100 neighbors in similar-sized homes with similar characteristics.
 - Targeted efficiency recommendations based on analysis of the household's energy usage, demographics and housing characteristics.
 - How report recipients can easily take action to reduce their consumption based on their individual circumstances.
 - Access to an online tool that gives customers greater insight into their energy consumption and what they can do to become more efficient.

CIP Savings = A Numbers Game



Minneapolis	Residential	Commercial / Industrial
# of Customers	92%	8%
Consumption	35%	65%

Greatest C/I Opportunities



Highest Users By Industry Segment (SIC code)	Greatest Saving Opportunities Per Market Potential Study
Electric, Gas, Sanitary	
Real Estate	Multi Family
Education Services	Education
Health Care	Health Care
Eating & Drinking	Food Service
Membership Organizations	Membership Organizations

Contact Information



Todd Berreman
Manager, CIP Implementation
612-321-4311

Todd.berreman@centerpointenergy.com

Al Swintek
Manager, Local Government Relations
612-321-4799

Albert.swintek@centerpointenergy.com

Thank You !