

# BOILER EFFICIENCY

REBATE APPLICATION FOR NATURAL GAS BOILER SYSTEM EQUIPMENT AND TUNE-UPS



Boiler Efficiency offers rebates to Xcel Energy's direct-billed business natural-gas customers who purchase and install new qualifying equipment or tune-up existing equipment. See page 2 of this application for rebate levels and minimum qualifications. Copies of all invoices and all pages of this completed application form are required before Xcel Energy issues rebates. See page 4 for additional information.

See [xcelenergy.com/BoilerEfficiency](http://xcelenergy.com/BoilerEfficiency) for the current version of this application.

As of April 1, 2009, boiler systems used for space heating or a combination of space and domestic-water heating can qualify for the prescriptive rebates listed on this application. Other improvements are required to apply for Custom Efficiency rebates, which require preapproval prior to purchase and installation.

## Customer Information

Customer name \_\_\_\_\_ Date submitted \_\_\_\_\_

Billing address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Installation address (if different) \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Contact person (Print) \_\_\_\_\_ Phone \_\_\_\_\_ Fax \_\_\_\_\_

Contact e-mail\* \_\_\_\_\_

The undersigned does hereby certify that: 1. The undersigned, and not Xcel Energy, is solely responsible for the accuracy of the information contained in this application, and 2. All rules of this Xcel Energy program (see page 4) have been followed. Further, the undersigned acknowledges that nothing contained in this application shall impose any liability on Xcel Energy for the work performed for this Xcel Energy program by the vendor.

Customer signature \_\_\_\_\_ Date \_\_\_\_\_

Xcel Energy natural gas premise number (10-digit number from your Xcel Energy bill)

### Alternative rebate recipient

Company name \_\_\_\_\_ Contact name \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

The undersigned does hereby authorize the preceding to receive the rebate check for this project.

Customer signature \_\_\_\_\_ Date \_\_\_\_\_

## Contractor Information

Company \_\_\_\_\_ Contact \_\_\_\_\_

E-mail\* \_\_\_\_\_ Phone \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

\*By providing your email address you are granting Xcel Energy permission to send future e-mails regarding our programs and services.

### FOR OFFICE USE ONLY

Account manager \_\_\_\_\_ Date \_\_\_\_\_ Acct mgr, please complete the therm calculator along with the application and enter the results below.

Boilers \_\_\_\_\_ Burner controls 5:1 \_\_\_\_\_ Burner controls 10:1 \_\_\_\_\_ Turbulators \_\_\_\_\_ Steam traps \_\_\_\_\_ O2 trim controls \_\_\_\_\_

Outdoor air reset controls \_\_\_\_\_ Stack dampers \_\_\_\_\_ Rebate operations \_\_\_\_\_ Date \_\_\_\_\_

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## New Boiler System Rebates

Boiler rebates for new boiler systems range from \$300/MMBTUH to \$500/MMBTUH.

Minimum thermal efficiency requirements*				
Boiler size (BTU/hr input)	Hot water	High pressure steam	Low pressure steam	Rebate
≤ 300,000	85% A.F.U.E.	81.5%	83%	\$300 to \$500/MMBTUH, up to \$750/boiler
300,001 - 999,999	83%	81.5%	83%	\$300 to \$500/MMBTUH, up to \$2,500/boiler
1,000,000 – 9,999,999	83%	83%	83%	\$300 to \$500/MMBTUH up to \$5,000/boiler
>10,000,000	83%	Rebated through the Custom Efficiency program. Must be preapproved		

\* Hot water boilers < 300,000 BTU/hr input and ≥ 85% AFUE must be ENERGY STAR® compliant  
 \* 1,000,000 BTU/hr = 1 MMBTUH  
 \* Efficiency of the boiler will be determined by the high fire rate at 80°F return-water temperature and 180°F leaving-water temperature (per I=B=R testing methods) unless actual design conditions for the specific boiler application are documented.

## New Boiler Rebate Calculation

Hot water ≤ to 300,000 BTU/hr (\$400 x \_\_\_\_\_ MMBTUH) + (\$150 X \_\_\_\_\_ MMBTUH X (new efficiency \_\_\_\_\_ - 85) = \$ \_\_\_\_\_

Hot water > 300,000 BTU/hr (\$400 x \_\_\_\_\_ MMBTUH) + (\$150 X \_\_\_\_\_ MMBTUH X (new efficiency \_\_\_\_\_ - 83) = \$ \_\_\_\_\_

Low pressure steam ( ≤ 15 psi) (\$500 x \_\_\_\_\_ MMBTUH) + (\$250 X \_\_\_\_\_ MMBTUH X (new efficiency \_\_\_\_\_ - 83) = \$ \_\_\_\_\_

High pressure steam ( > 15 psi) (\$300 x \_\_\_\_\_ MMBTUH) + (\$150 X \_\_\_\_\_ MMBTUH X (new efficiency \_\_\_\_\_ - 81.5) = \$ \_\_\_\_\_

## Rebate Information

Complete this section to apply for a new-boiler rebate. Auxiliary boiler equipment also is eligible for rebates for new boilers when auxiliary equipment is optional. Please see below for eligible auxiliary equipment, and use page 3 of this form to apply for auxiliary equipment rebates.

	Boiler Manufacturer	Model #	Size/Qty	Installed Cost	Approx. age (existing boiler)	Total Rebate (from above)	Therms (to be entered by Xcel Energy)
Boiler #1							
Boiler #2							

## Boiler System Tune-ups or Improvements

Tune-ups or improvements to hot-water or steam boilers used for space heating or a combination of space and domestic water heating are eligible for the following rebates. Improvements or tune-ups for process boilers are available through Custom Efficiency, which requires preapproval prior to purchase and installation.

Boiler tune-up and improvement rebates	Rebate available
<b>Boiler Tune-ups</b> (must meet tune-up requirements listed on page 3)	25% of project costs up to \$250 per boiler every other year
<b>Boiler Efficiency Improvements</b>	
Modular burner controls ≥ 5:1 turndown ratio	25% of equipment costs up to \$2,500 per burner
Modular burner controls ≥ 10:1 turndown ratio	25% of equipment costs up to \$5,000 per burner
O <sub>2</sub> trim controls	25% of equipment costs up to \$5,000 per control
Outdoor air reset controls	25% of equipment costs up to \$500 per control
Stack dampers	25% of equipment cost up to \$250 per damper
Steam trap replacement/parts	25% of equipment cost up to \$250 / trap; maximum \$10,000 per facility
Turbulators	25% of equipment costs up to \$400 per unit

**Complete the information below to apply for auxiliary boiler equipment and/or tune-up rebates.**

	Boiler use***	Boiler size (in MMBTUH)	Boiler serial # (tune-ups only)	Boiler type	Qty	Cost of equipment or tune-up	TOTAL REBATE (see page 2)
Boiler tune-up #1	<input type="checkbox"/> Space heating <input type="checkbox"/> Domestic hot water			<input type="checkbox"/> Condensing <input type="checkbox"/> Non-condensing <input type="checkbox"/> High-pressure steam* <input type="checkbox"/> Low-pressure steam*			
Boiler tune-up #2	<input type="checkbox"/> Space heating <input type="checkbox"/> Domestic hot water			<input type="checkbox"/> Condensing <input type="checkbox"/> Non-condensing <input type="checkbox"/> High-pressure steam* <input type="checkbox"/> Low-pressure steam*			
Burner with a turndown ratio ≥ 5:1	<input type="checkbox"/> Space heating <input type="checkbox"/> Domestic hot water			<input type="checkbox"/> Condensing <input type="checkbox"/> Non-condensing <input type="checkbox"/> High-pressure steam* <input type="checkbox"/> Low-pressure steam*			
Burner with a turndown ratio ≥ 10:1	<input type="checkbox"/> Space heating <input type="checkbox"/> Domestic hot water			<input type="checkbox"/> Condensing <input type="checkbox"/> Non-condensing <input type="checkbox"/> High-pressure steam* <input type="checkbox"/> Low-pressure steam*			
Turbulators	<input type="checkbox"/> Space heating <input type="checkbox"/> Domestic hot water			<input type="checkbox"/> Condensing <input type="checkbox"/> Non-condensing <input type="checkbox"/> High-pressure steam* <input type="checkbox"/> Low-pressure steam*			
O <sub>2</sub> Trim Controls	<input type="checkbox"/> Space heating <input type="checkbox"/> Domestic hot water			<input type="checkbox"/> Condensing <input type="checkbox"/> Non-condensing <input type="checkbox"/> High-pressure steam* <input type="checkbox"/> Low-pressure steam*			
Outdoor Air Reset Controls	<input type="checkbox"/> Space heating <input type="checkbox"/> Domestic hot water			<input type="checkbox"/> Condensing <input type="checkbox"/> Non-condensing <input type="checkbox"/> High-pressure steam* <input type="checkbox"/> Low-pressure steam*			
Stack Dampers	<input type="checkbox"/> Space heating <input type="checkbox"/> Domestic hot water			<input type="checkbox"/> Condensing <input type="checkbox"/> Non-condensing <input type="checkbox"/> High-pressure steam* <input type="checkbox"/> Low-pressure steam*			
Steam trap replacement or significant repair (Orifice traps DNQ**)	<input type="checkbox"/> High Pressure <input type="checkbox"/> Low Pressure					Note: invoice must include model numbers for each trap	

\* High-pressure steam is > 15 psi; low-pressure steam is ≤ 15 psi. \*\*DNQ = Does not qualify. Xcel Energy reserves the right to correct or adjust calculations as necessary.

\*\*\* Process or domestic-water-heating only boilers and components can apply for Custom Efficiency rebates, which require preapproval prior to purchase and installation.

**Natural Gas Boiler System Tune-Up Requirements**

(The contractor or technician performing the tune-ups needs to initial that each requirement has been completed to qualify for the rebate.)

- \_\_\_\_\_ Measure combustion efficiency using an electronic flue gas analyzer. **Include a copy of the combustion analyzer test.**
- \_\_\_\_\_ Adjust air flow and reduce excessive stack temperatures
- \_\_\_\_\_ Adjust burner and gas input, manual or motorized draft control
- \_\_\_\_\_ Clean burners, combustion chamber and heat exchange surface, when weather or operating schedule permits.
- \_\_\_\_\_ Clean and inspect burner nozzles
- \_\_\_\_\_ Check for proper venting
- \_\_\_\_\_ Complete visual inspection of system piping and insulation
- \_\_\_\_\_ Check safety controls
- \_\_\_\_\_ Check adequacy of combustion air intake

## Rules and Requirements

1. Program is available to Xcel Energy's direct-billed commercial and industrial natural gas customers in Minnesota.
2. Boiler equipment or services that do not comply with Xcel Energy rebate rules or local state or federal regulations will not qualify and will not receive a rebate.
3. Boiler Efficiency applications should be submitted after installation of the equipment. **This completed rebate form and a copy of the invoice with parts and labor separated and boiler size and efficiency data must be submitted in order for rebates to be considered. Custom Efficiency preapproval applications must be submitted prior to purchase of equipment.**
4. Efficiency data can be based on vendor published, thermal efficiency ratings. The efficiency of the boiler will be determined by the high fire rate at 80°F return-water temperature and 180°F leaving-water temperature (per I=B=R testing methods) unless actual design conditions for the specific boiler application are documented.
5. Xcel Energy acceptance of the application does not guarantee payment of rebate. You will be notified if the application HAS NOT been accepted pending final Xcel Energy review.
6. An Xcel Energy representative MAY inspect the project to confirm that the equipment has been installed.
7. Xcel Energy reserves the right to limit any rebate.
8. Rebate applications must be submitted to Xcel Energy within one (1) year of the date of invoice or start-up.
9. Xcel Energy will issue rebates in the form of checks, not utility bill credit. Rebates will be issued within 6 weeks of acceptance of this application.
10. This rebate form and standards are effective April 2009. The rebate program will be in effect indefinitely but is subject to 60 days notice of change or cancellation. The customer is responsible for checking with the Xcel Energy Business Solutions Center at 1-800-481-4700 to determine whether the program is still in effect or check for program updates at [xcelenergy.com/BoilerEfficiency](http://xcelenergy.com/BoilerEfficiency).
11. Replacement and significant repair of failed steam traps only are eligible, NOT new installations.
12. New boiler and auxiliary equipment installations can qualify for both boiler and auxiliary component rebates only if the auxiliary equipment is optional and listed as such on the invoice.
13. Boiler tune-up rebates are only available on the same boiler every 2 years.
14. Rebates cannot exceed 50% of the project costs (including equipment and labor). The minimum rebate is \$5.
15. Rebate qualification does not imply any representation or warranty of equipment, design or installation by Xcel Energy. Xcel Energy shall not be responsible or liable for any personal injury or property damage caused by this equipment. Xcel Energy does not guarantee any energy savings. In any case, Xcel Energy's potential liability shall be limited to the amount of the rebate paid.

**Please allow 6-8 weeks for rebate check to arrive.**

### Fax or mail completed application and all documentation to:

Xcel Energy Rebate Operations  
 P.O. Box 1438  
 Minneapolis, MN 55440-1438  
 Fax: 612-330-5675

*(You can print additional forms from our Web site at [xcelenergy.com/BoilerEfficiency](http://xcelenergy.com/BoilerEfficiency))*

## Boiler Efficiency rebates through Custom Efficiency

Custom Efficiency helps lower your operating costs by providing rebates on a wide variety of equipment and process improvements that lead to energy savings. Get money back for choosing energy-efficient investments that exceed standard efficiency options, but aren't covered under our standard conservation programs. The more energy your project saves, the more your business can earn in rebate dollars up to \$2 per MCF saved. **All Custom Efficiency projects require preapproval before purchase and installation. Visit [xcelenergy.com/customefficiency](http://xcelenergy.com/customefficiency) for the Custom Efficiency application (#1319) or call our Business Solutions Center 1-800-481-4700.**

### Boiler equipment considered for rebates through Custom Efficiency:

- New boiler systems greater than 10 MMBTUH
- Boiler systems, auxiliary equipment and tune-ups that perform functions beyond space heating or a combination of space- and domestic-hot-water heating
- Blowdown heat recovery
- Stack economizers
- Piping insulation
- Self-contained radiator valves
- Energy recovery ventilators
- Linkage-less burner controls
- Other energy-saving strategies



1-800-481-4700  
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