

Pacific Gas and Electric Company  
Energy Efficiency Rebates for Your Business

# Boilers and Water Heating Rebate Catalog

Saving energy for a brighter future.



# Boilers and Water Heating Rebate Catalog

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Carefully read the specifications below to determine that you are installing a qualifying product(s). All installations must be new and replace a previously installed product unless otherwise noted. For definitions, please see the back of the catalog.

## Process Heating

### Process Boiler

#### Requirements:

- Installation address must have a commercial natural gas account with Pacific Gas and Electric Company (PG&E).
- Available to industrial end-use customers who manufacture a saleable product typically in NAICS codes 31-33, but other NAICS codes may apply.
- Must conduct a flue gas analysis under full load conditions after installation is complete to document minimum combustion efficiency of 82 percent.

- Must include the manufacturer name and equipment model with your application.

#### Exclusions:

- Boilers primarily used for domestic hot water, space conditioning, pool or spa use do not qualify.

Rebate Code	Description	Rebate/Unit Measure
H15	Steam Process Boiler	\$2.00/MBtuh
H11	Water Process Boiler	\$2.00/MBtuh

### Direct Contact Water Heater

#### Requirements:

- Installation address must have a commercial natural gas account with PG&E.
- Direct contact water heaters for process end-uses typically in NAICS codes 31-33, but other NAICS codes may apply.
- Must meet efficiency requirements based on input ratings shown in the Direct Contact Water Heater Table.

#### Direct Contact Water Heater Table

Input Rating	Required Efficiency
300 MBtuh or less	AFUE of 88% or greater
Greater than 300 MBtuh	Thermal Efficiency greater than 90%

All required efficiencies, as prescribed above, exceed Title 20 and 24 standards.

#### Exclusions:

- Water heaters primarily used for domestic hot water, space conditioning, pool or spa use does not qualify.

Rebate Code	Description	Rebate/Unit Measure
H16	Direct Contact Water Heater	\$2.00/MBtuh

## Hot Water Heating

### Large Domestic Hot Water Boiler

#### Requirements:

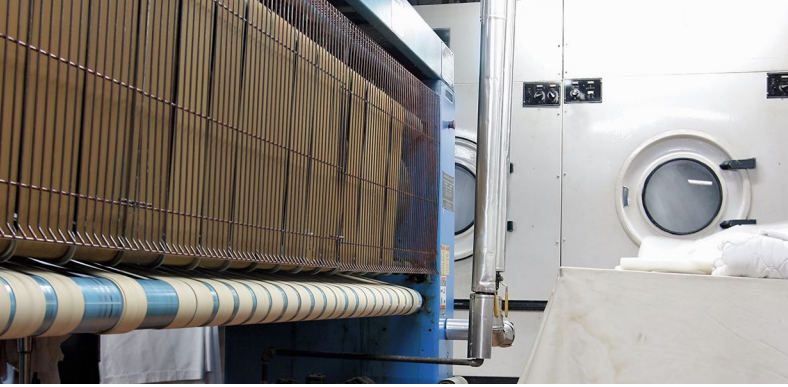
- Installation address must have a commercial natural gas account with PG&E.
- Must be a commercial end-use customer.
- Only boilers with an input rating greater than 75,000 Btuh qualify.
- Must meet a minimum thermal efficiency of 84 percent or higher.

- Must include a manufacturer's specification sheet documenting input rating and efficiency with your application.

#### Exclusions:

- Cannot be used for space conditioning.
- Cannot be used for industrial (process) end-use.

Rebate Code	Description	Rebate/Unit Measure
H105	Large Domestic Hot Water Boiler	\$1.50/MBtuh



## Hot Water Heating, continued

### Electric Storage Water Heater

#### Requirements:

- Installation address must have a commercial electric account with PG&E.
- Must be new and replace a previously installed product.
- Must have an Energy Factor (EF) of 0.93 or greater.
- Capacity must be 40 gallons or more.

- Only residential-style electric storage water heaters qualify for this rebate. Go to [www.ahridirectory.org](http://www.ahridirectory.org) for a list of qualifying residential water heaters and the corresponding EF.

#### Exclusions:

- No instantaneous or tankless water heaters.

Rebate Code	Description	Rebate/Unit Measure
H154	Electric Storage Water Heater EF of 0.93 or greater	\$30.00/unit

### Ozone Laundry System

#### Requirements:

- Installation address must have a commercial natural gas account with PG&E.
- Customer must have a natural gas-fired boiler or natural gas water heater that supplies hot water to the on-premise laundry equipment.
- This rebate only applies to the following facilities with on-premise laundry operations:
  - Hotels/motels with fewer than 250 guest rooms.
  - or
  - Fitness and recreational sports centers.
- The ozone laundry system(s) must be a new purchased product and added-on to a new or existing commercial washing machine(s).
- The ozone laundry system(s) must transfer ozone into the water through:
  - Venturi Injection
  - or
  - Bubble Diffusion

#### Application Process:

- For hotel customers: The total number of guest rooms must be included on the invoice.
- Must include a manufacturer's specification sheet documenting manufacturer name, equipment model, and ozone laundry system's serial number(s) with your application.
- Must include total washer capacity in pounds for operating washer units with ozone laundry system(s) connected with your application.

Rebate Code	Description	Rebate/Unit Measure
B85	Ozone Laundry System	\$39.00/lb Washing Machine Capacity (Connected to Ozone Laundry System)



## Space Heating

### Space Heating Boiler

#### Requirements:

- Installation address must have a commercial natural gas account with PG&E.
- Must be used for space heating to induce human comfort (as defined by the California Energy Commission (CEC) Titles 20 and 24 standards).
- Must meet efficiency requirements based on input ratings and types shown in the Space Heating Boiler Table.
- Must include a manufacturer's specification sheet documenting type, input rating and efficiency with your application.

Space Heating Boiler Table

Type	Input Rating	Required Efficiency
Small Water	Less than 300 MBtuh	AFUE of 82% or greater
Small Steam	Less than 300 MBtuh	AFUE of 77% or greater
Large Steam	300 MBtuh–5,000 MBtuh	Thermal Efficiency of 84% or greater

All required efficiencies, as prescribed above, exceed Title 20 and 24 standards.

Rebate Code	Description	Rebate/Unit Measure
H111	Small Water Boiler for Space Heating	\$1.00/MBtuh
H112	Small Steam Boiler for Space Heating	\$1.00/MBtuh
H113	Large Steam or Water Boiler for Space Heating	\$1.00/MBtuh

## Steam Traps

### Steam Traps

#### Requirements:

- Installation address must have a commercial natural gas account with PG&E.
- Commercial steam traps are for end-use customers in commercial facilities (such as dry cleaners). New commercial steam traps must replace, one-for-one, existing failed or old steam traps.
- Industrial steam traps are for end-use customers who manufacture a saleable product (some exceptions apply). New industrial steam traps must replace, one-for-one, existing failed steam traps.
- For H202 Industrial High Pressure Steam Traps:
  - Purchase and install High Pressure Steam Traps (on lines with more than 15 psig steam pressure) to be eligible for this rebate.
  - Must replace a failed industrial high pressure steam trap.
  - Facilities with less than 100 existing industrial high pressure steam traps at a given location must fill out a pre-installation datasheet. To receive the datasheet, please contact your PG&E representative or call the Business Customer Service Center 1-800-468-4743.

- Facilities with more than 100 existing industrial high pressure steam traps at a given location must undergo a steam trap measurement survey before installation.
- To schedule a pre-installation steam trap measurement survey, please contact your PG&E representative or call the Business Customer Service Center 1-800-468-4743.
- Must include a manufacturer's specification sheet for the steam trap that is replacing the existing trap and invoice for purchase with your application.

#### Exclusions:

- New construction is not eligible.

Rebate Code	Description	Rebate/Unit Measure
H221	Commercial Steam Traps – Any Pressure	\$50.00/unit
H201	Industrial Low Pressure Steam Traps (15 PSIG or less)	\$100.00/unit
H202	Industrial High Pressure Steam Traps (Greater than 15 PSIG)	\$290.00/unit



## Pool Heating

### Commercial Pool and Spa Heater

#### Requirements:

- Installation address must have a commercial natural gas account with PG&E.
- Must replace existing pool heater.
- Must be certified to meet the following requirements:
  1. Must be equal to or greater than 84 percent thermal efficiency and
  2. Must have an "on/off" switch and have no pilot light.

- Go to [www.appliances.energy.ca.gov/quicksearch.aspx](http://www.appliances.energy.ca.gov/quicksearch.aspx) and select Pool Products for a list of qualifying products with thermal efficiency of 84 percent or greater.

#### Exclusions:

- Single Family accounts are not eligible for this product.

Rebate Code	Description	Rebate/Unit Measure
H103	Commercial Pool and Spa Heater	\$2.00/MBtuh

## Insulation

### Pipe Insulation

#### Requirements:

- Installation address must have a commercial natural gas account with PG&E.
- One or two inches of fiberglass, foam, or calcium silicate insulation must be added to existing, nonresidential bare pipe systems. Insulation thickness and liquid or steam temperature will determine the rebate amount.
- The pipes must transfer fluid directly from gas-fired equipment.

- Minimum qualifying pipe diameter is one inch.
- Must include the manufacturer's name, insulation material type and material k-value rating with your application.

Rebate Code	Description	Rebate/Unit Measure
H106	1" Pipe Insulation, Hot Water (120° F–200° F)	\$2.00/linear foot
H107	2" Pipe Insulation, Hot Water (120° F–200° F)	\$3.00/linear foot
H108	1" Pipe Insulation, Low Pressure (Less than 15 PSIG) Steam (200° F–250° F)	\$3.00/linear foot
H109	2" Pipe Insulation, Low Pressure (Less than 15 PSIG) Steam (200° F–250° F)	\$4.00/linear foot

### Tank Insulation

#### Requirements:

- Installation address must have a commercial natural gas account with PG&E.
- One or two inches of fiberglass or foam insulation must be added to existing bare liquid, solution storage or transfer tanks. The insulation thickness and tank solution temperature will determine the rebate amount.
- The tanks must be coupled to gas-fired commercial or industrial equipment that transfers heat to the contained liquid or solution.
- Must include manufacturer's name, insulation material type and the material k-value rating with your application.

Rebate Code	Description	Rebate/Unit Measure
H115	1" Tank Insulation, Low Temp Solution (120° F–170° F)	\$2.00/sq. ft.
H114	1" Tank Insulation, High Temp Solution (170° F–200° F)	\$3.00/sq. ft.
H13	2" Tank Insulation, Low Temp Solution (120° F–170° F)	\$3.00/sq. ft.
H18	2" Tank Insulation, High Temp Solution (170° F–200° F)	\$4.00/sq. ft.

Apply or check the status of your rebate online through eRebates at [www.pge.com/mybusiness/erebates](http://www.pge.com/mybusiness/erebates).

Visit [www.pge.com/businessrebates](http://www.pge.com/businessrebates) for more information or call the Business Customer Service Center at 1-800-468-4743.

# Definitions

**AFUE:** Annual Fuel Utilization Efficiency.

**Btu:** British Thermal Unit, the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit.

**Btuh:** British Thermal Units per Hour.

**MBtu:** 1000 British Thermal Units.

**MBtuh:** 1000 British Thermal Units per Hour.

**Bubble Diffusion:** A method of inserting ozone into water by continuously bubbling ozone directly into the sump of the washer throughout the wash cycle.

**Direct Contact Water Heater Systems:** Heat from a flame comes into direct contact with small droplets of cold water which run through a stainless steel heat exchange media. Droplets composed from the process come into direct contact with rising heat from the flame and the water is heated directly.

**End-Use Customer:** A customer who acquires energy for their own consumption.

**Energy Factor (EF):** Water Heater: the measure of a water heater's efficiency. EF is based on recovery efficiency, standby losses and cycling losses. The higher the EF, the more efficient the water heater is.

**K-value:** Refers to thermal conductivity and has a unit of Btu-inch per hour per square foot per °F.

**Manufacture:** To mechanically or chemically transform materials or substances into a new product which is neither a structure nor any other fixed improvement.

**NAICS:** North American Industry Classification System identifies new, emerging and advanced technology industries. NAICS defines industries according to a consistent principle: businesses that use similar production process are grouped together. Please visit [www.census.gov/eos/www/naics/](http://www.census.gov/eos/www/naics/) for a list of NAICS Codes and Titles.

**PSIG:** Pounds of steam pressure per square inch (gauge). The steam system should have a steam pressure gauge attached which reads the pressure of the steam in the pipes. The pressure gauge will read out in pounds of pressure per square inch (psig).

**Total Washer Capacity:** Refers to rated capacity of installed and operating washing machine units that will be connected to the ozone laundry system.

**Venturi Injection:** A method of inserting ozone into water using very high pressure directly into the cold water supply line leading to the washer.

## More ways for your business to save money.

Looking for more information on Pacific Gas and Electric Company's (PG&E) rebates and incentives for your business? Visit [www.pge.com/moneybacksolutions](http://www.pge.com/moneybacksolutions) to access the latest rebate information, catalogs, application and guidance for your next energy-efficiency upgrade. In addition to rebates, you can find a wide range of tools and resources that can help your business save energy, money and help the environment.

- Sign up for PG&E's Automated Benchmarking Service at [www.pge.com/benchmarking](http://www.pge.com/benchmarking). Use ENERGY STAR® Portfolio Manager to track and compare your facility's energy performance over time.
- Use PG&E's audit tools to identify options for saving energy and money at your facility, and get started on developing a comprehensive energy management plan.
- Find a suite of customized incentives for retrofitting outdated, inefficient equipment, as well as incentives to optimize existing equipment through retrocommissioning.
- Explore PG&E's demand response programs that offer incentives for managing your energy use during times of peak demand.
- Check out PG&E's incentives for solar, wind and fuel cell self-generation equipment, if you're considering generating your own electricity.

Ready to get started with your next project and need the help of a contractor? Find local vendors who participate in PG&E's Energy Efficiency Rebates for Your Business Program [www.pge.com/tradeprodirectory](http://www.pge.com/tradeprodirectory).

You can also apply online or check the status of your rebate through eRebates at [www.pge.com/mybusiness/erebates](http://www.pge.com/mybusiness/erebates).

To learn how PG&E can help your business find innovative energy solutions, manage energy consumption and reduce costs, please contact PG&E's Business Customer Service Center at 1-800-468-4743.

