

Pacific Gas and Electric Company
Energy Efficiency Rebates for Your Business

Boilers and Water Heating Rebate Catalog

Saving energy for a brighter future.



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. Funding for this program is limited and available on a first-come, first-served basis until allocated funds are exhausted, or December 31, 2012, whichever comes first. This program may be modified or terminated without prior notice. Additional terms and conditions apply. For our most up-to-date catalog, please visit www.pge.com/businessrebates.

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

Apply or check the status of your rebate online through eRebates at www.pge.com/mybusiness/erebates. Visit www.pge.com/businessrebates for more information or call the Business Customer Service Center at 1-800-468-4743.



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 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 or Water	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 H201 and H202 Industrial Steam Traps:
 - Must replace a failed industrial steam trap.
 - Facilities with less than 100 existing industrial 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 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

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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 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. Only customer accounts with annual use less than 250,000 therms are qualified.
- Minimum qualifying nominal pipe diameter is 0.5 inch and minimum qualifying insulation thickness is 1 inch.
- The pipes must transfer fluid directly from gas-fired equipment.
- Insulation materials and accessories must be installed according to manufacturer instructions.
- Must include the manufacturer’s name, insulation material type and material k-value rating with your application.

- Pipe insulation for exposed steam and hot-water pipes within 7 feet of the floor that is not otherwise guarded in such manner as to prevent contact does not qualify for rebate. The Occupational Safety and Health Administration (OSHA) standards require exposed, heated surfaces to be covered to prevent injury.

Exclusions:

- Pipe with pre-existing insulation does not qualify for a rebate. This rebate cannot be used for the replacement of old or damaged insulation.
- California Building Energy Efficiency Standards (Title 24), Section 123 establishes requirements for pipe insulation in the design and installation of space-conditioning and service water heating systems and equipment. Any pipe requiring insulation per these standards does not qualify for a rebate. Details are available at www.energy.ca.gov/title24.

Rebate Code	Description	Rebate/Unit Measure
H664	Pipe Insulation – Hot Water, pipe size less than 1”	\$2/linear ft
H665	Pipe Insulation – Hot Water, pipe size 1” or greater	\$2/linear ft
H666	Pipe Insulation – Steam less than 15 psig, pipe size less than 1”	\$3/linear ft
H667	Pipe Insulation – Steam less than 15 psig, pipe size 1” or greater	\$3/linear ft
H668	Pipe Insulation – Steam greater than or equal to 15 psig, pipe size less than 1”	\$3/linear ft
H669	Pipe Insulation – Steam greater than or equal to 15 psig, pipe size 1” or greater	\$3/linear ft



Insulation, continued

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.
- Insulation materials and accessories must be installed according to manufacturer instructions.
- Must include manufacturer's name, insulation material type and the material k-value rating with your application.

Exclusions:

- Tanks with pre-existing insulation do not qualify for a rebate. This rebate cannot be used for the replacement of old or damaged insulation.

- California Building Energy Efficiency Standards (Title 24), Section 123 establishes requirements for tank insulation in the design and installation of space-conditioning and service water heating systems and equipment. Any tank requiring insulation per these standards does not qualify for a rebate. Details are available at www.energy.ca.gov/title24.
- Tanks insulated within 7 feet of the floor do not qualify for rebates. The Occupational Safety and Health Administration (OSHA) standards require exposed, heated surfaces to be covered to prevent injury.

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.

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/ 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 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. 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.

You can also apply online or check the status of your rebate through eRebates at 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.

