



Industrial Systems Optimization Program

Boiler Economizer Rebates

Deemed rebates provide quick cash support for common energy saving projects, including feedwater economizers and condensing economizers.

Boiler economizer rebates are based on the heat input (kBtu/hr) to the boiler.

Pacific Gas and Electric Company (PG&E) offers the following rebates for economizer projects

MEASURE	UNIT REBATE (\$/kBtu/hr)
Feedwater Economizer	\$1.00
Condensing Economizer	\$2.25

How to get a Deemed Rebate

1. Talk to Cascade

Cascade can help verify which products qualify for rebates and how much money you are eligible for.

2. Provide Invoices

Provide paid invoices as proof of purchase. Other supporting documentation may be required, such as manufacturer make and model, and quantities purchased. Cascade can help identify and collect the required documentation and complete rebate application forms.

3. Receive Rebate

Once PG&E has reviewed and approved the rebate application, Cascade will issue a rebate check.

BOILER ECONOMIZER

Why a Boiler Economizer?

Boilers are essential for processes and heating buildings. However, 15-20% of the energy may be lost to heat from the exhaust stack.

Feedwater economizers capture exhaust heat and return it to the water entering the boiler.

To avoid condensing water out of the exhaust, conventional economizers must keep the exhaust temperature above the dew point, which limits the amount of heat they can recover. A condensing economizer further reduces the flue gas temperature below dew point, increasing overall heat recovery and system efficiency up to an additional 10%.

Who is Eligible?

The Industrial Systems Optimization Program (ISOP) is geared towards industrial, food processing and cold storage facilities. This rebate is available to all PG&E business customers who meet both the following criteria

- Receive natural gas service from PG&E, and
- Pay the Public Purpose Program Charge on their utility bills.

Additionally, all customers must have a signed and executed ISOP Program Participation Agreement to participate.

Example

The following is an example of two 20,000 kBtu/hr economizers at a gas price of \$0.74/therm.

MEASURE	FEEDWATER ECONOMIZER	CONDENSING ECONOMIZER
Energy Savings (therms/yr)	18,021	57,475
Energy Savings (\$/yr)	\$13,371	\$42,647
Example Project Cost (\$)	\$36,000	\$81,600
ISOP Incentive (\$)	\$20,000	\$45,000
Cost to Customer (\$)	\$16,000	\$36,000
Simple Payback (yrs)	1.2	0.9

NOTE

This rebate is applicable to boilers with rated inputs between 3,000 - 20,000 kBTU/hr. Boilers larger than 20,000 kBTU/hr can receive a custom incentive through the ISOP Custom Project program.

Contact us at HelloISOP@cascadeenergy.com for more information

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