

# PGW EnergySense Construction Grant Programs

BIA Philadelphia April 28, 2020





#### Agenda

PGW EnergySense Portfolio

Efficient Construction & Efficient Building Grants

**Case Studies** 

**Application Process** 

**Residential Construction Grants** 

**Residential & Commercial Equipment Rebates** 

Q & A



#### **EnergySense Portfolio Overview**

#### **Commercial & Industrial**

#### **Construction Grants**

 Up to \$60,000 for design upgrades above energy code

#### **Efficient Building Grants**

 Up to \$75,000 for efficiency improvements

#### **Equipment Rebates**

- Commercial boilers
- Commercial domestic hot water heaters
- Steam traps
- Food service equipment

#### Rebates and grants available through August 31, 2020

• Awarded on first-come, first-served basis, subject to availability

#### Residential

#### **Construction Grants**

Up to \$750 for new construction

#### **Equipment Rebates**

- Furnaces
- Boilers



# **COMMERCIAL GRANTS**

# **EFFICIENT CONSTRUCTION GRANTS**





## **Benefits of Energy-Efficient Construction**

- Lowers operating costs per square foot
- Improves tenant retention
- Increases property value
- Boosts occupant comfort
- Increases worker productivity



## **Efficient Construction Grants: Eligibility**

- New construction and gut-rehabilitation of commercial, multifamily or industrial buildings
- New Construction: new building, or space within a building, where a licensed, professional architect or engineer prepares and certifies plans
- Gut-Rehab: major renovation where at least two building systems are being replaced or redesigned AND the renovations trigger compliance with the Energy Code
- Firm rate customers with single fuel, natural gas heat



#### **Efficient Construction Grants**

- Up to \$60,000 per property
- Must save at least 15% above 2009 IECC
- Savings based on:
  - Energy model, or
  - Full set of building plans
- PGW should be engaged early in the process

Energy Savings Above 2009 IECC	Grant Amounts Per First-Year MMBtu Saved
≥ 15% to < 20%	\$13
≥ 20% to < 30%	\$24
≥ 30%	\$40

# EFFICIENT CONSTRUCTION GRANT CASE STUDY





## **Efficient Construction Grant Case Study: Orinoka Civic House**

- \$60,000 awarded for affordable housing project
- Measures included:
  - Furnaces
  - Water heaters
  - Insulation
  - Low-flow devices





Source: Curbed Philly; Google Streetview 2011 vs. September 2016



# **EFFICIENT BUILDING GRANTS**



#### **Efficient Building Grants: Eligibility**

- Grants for comprehensive energy efficiency upgrades to existing commercial, multifamily or industrial buildings
- All natural gas conservation measures considered, including but not limited to:
  - Space heating
  - Water heating
  - Heat recovery systems
  - Boiler reset controls
  - Building shell improvements

Firm rate customers with single fuel, natural gas heat



#### **Efficient Building Grants**

- Up to \$75,000 available per project
  - Incentives offered at 33% of incremental cost for each installed measure
- Baseline verification of existing conditions required before work begins
- Post-completion QA required
- Comprehensive packages involving combinations of enduses are given preferential consideration



# EFFICIENT BUILDING GRANT PROJECT EXAMPLE



- A 99-unit apartment building is performing the following upgrades to their building:
  - Replacing existing boilers with three, 725 MBH 96%  $\rm E_{t}$  natural gas boilers
  - Replacing existing water heaters with two, 200 MBH 96%  $E_t$  natural gas water heaters
  - Adding insulation (R-50) to their existing 20,000 sq. ft. roof (R-5)
  - Installing faucet aerators in each apartment
  - Installing low-flow showerheads in each apartment



- The boilers and water heaters will receive the prescriptive commercial equipment rebates:
  - A 725 MBH boiler receives a \$4,200 rebate
    - 3 x 725 MBH boilers rebates = \$12,600

Commercial Boiler Rebates		
Size (kBtu/h)	85% Et	90% Et
300-499	\$800	\$2,900
500-699	\$1,400	\$3,600
700-899	\$2,000	\$4,200

- A 200 MBH water heater receives a \$4/kBtu rebate
  - 2 x \$4/kBtu \* 200 kBtu = \$1,600

Commercial Domestic Hot Water Heaters			
Minimum Efficiency Rebate Amount			
= 94% Et	\$4 per kBtu/h		



- It costs \$50,000 for R-20 insulation to bring the existing roof to code
- It costs \$70,000 for R-50 insulation as per the proposed roof design
- Therefore, the incremental cost for this measure is \$20,000.
- The measure is deemed cost-effective based on energy savings, with the incentive being 33% of the incremental cost
  - The incentive for this measure is **\$6,600**



- The faucet aerators cost \$1,980
- The low-flow showerheads cost \$2,970
- Since these two measures aren't required by code, the incremental cost will be the entire cost of the measure
- The measures are deemed cost-effective based on energy savings, with the incentive being 33% of the incremental cost
  - Faucet aerators receive a **\$653** incentive
  - Low-flow showerheads receive a **\$980** incentive



- This project is then eligible for the following grant amount:
  - Boilers: \$12,600
  - Water heaters: \$1,600
  - Roof insulation: \$6,600
  - Faucet aerators: \$653
  - Low-flow showerheads: \$980
  - Total Grant Amount: \$22,433

# **APPLICATION PROCESS**





#### **Grant Application Process**

Submit Screening Application (pgwenergysense.com)

PGW Application Review (EBG requires site visit)

Submit Data Collection Worksheet

PGW reviews project

PGW issues Grant Agreement



## **Grant Application Protocol – cont'd**

Complete construction

**Obtain Certificate of Occupancy & Invoices** 

PGW conducts Quality Assurance Inspection

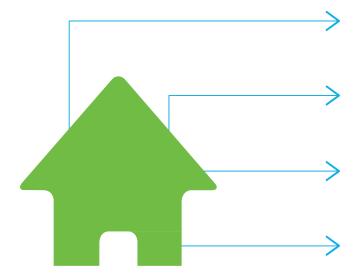
Grant awarded



# **RESIDENTIAL GRANTS**



## **Benefits of Energy-Efficient Residential Construction**



- Increased Comfort
- Clean Indoor Air
- Reduced Carbon Footprint
- Low Energy Bills



## **Residential Construction Grants -Eligibility**

#### Eligibility:

- Single-family, detached or rowhomes
- Duplex properties
- Multifamily: 1-15 single-family homes of same design

#### Incentives:

- Up to \$750
- Must be  $\geq$  20% more efficient than 2009 IECC



## **Residential Construction Grants -Eligible Measures**

Measure	Minimum Efficiency
Building Envelope	
Exterior Insulation	R-19
Heating Systems	
Boilers	90% AFUE
Furnaces	90% AFUE
Heat Pump with Gas Backup	8 HSPF
<b>Domestic Hot Water Systems</b>	
Water Heaters	0.67 EF
Tankless Water Heaters	0.82 EF
Low Flow Showerheads	1.5 GPM
Faucet Aerators	1.5 GPM



# **RESIDENTIAL EQUIPMENT REBATES**



## **Residential Equipment Rebates**

Eligible Equipment*	First Unit	Additional Units
94% AFUE Furnace	\$500	\$250
94% AFUE Boiler	\$1,500	\$800



\*<3kBtu/h



## **Residential Equipment Rebates**

- A "Project" is an installation at a single building address by the property owner, manager or contractor.
- Examples:
  - Installing eligible furnaces in 5 townhouses would earn \$2,500 (\$500 for each building)
  - Installing eligible furnaces in a 5-unit apartment building would earn \$1,500 (\$500 for the first and \$250 for each of the remaining 4 units)



## **Residential-Sized Equipment Application**

Apply online by visiting www.pgwrebates.com

PGW	energy <b>se</b> i	nse				es for Primary ation - Page 1
Promotion Dates: 9/1/201	6 - 8/31/2020					
		e page 2 of this appl	ication form; use addit	ional pages if ne	eded.	
Qualifying Products	Criteria	Rebate	Value*	Invoice Date		
Natural Gas Boiler	Efficiency Level (AFUE)	\$1,500 First Un	it in Project			
94% AFUE or greater	must be 94% or greater	\$800 Additiona	Units in Project	],,		an installation at a single ass by the property owner,
Natural Gas Furnace	Efficiency Level (AFUE)	\$500 First Unit	in Project	]	manager or d	
94% AFUE or greater	must be 94% or greater	\$250 Additiona	Units in Project			
AFUE criteria for this Install the product(s) Mail the following to t a. This rebate informatio b. A legible cr	a list of qualifying equipme program. where there is an active m he address below: e form, completed accurati n for each installed equip pp of your <u>itemized</u> invoic	ent options and refere neter using PGW serv ely and legibly. <i>Landic</i> ment purchase.	nce the listings at www. ices. Account must be ai rd/building owner is resj icontractor name, addr	AHRIdirectory.org	to ensure you r payout to be e and provide v	neet the 94% ligible for the rebate. alid PGW account
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#### Furnace and Boiler Rebates for Primary **Residence Application - Page 2**

	Complete section(s) bel	lete section(s) below for EACH eligible equipment installed.		
- 71	*Select One	*AHRI Certificate #	*Serial #	*Capacity (kBtuh)
DUCT	First Unit \$\$1,500 Boller			
PROL	Additional \$800 Boiler Unit \$250 Furnace	*Manufacturer	*Model #	AFUE (%)

2	*Select One	*AHRI Certificate #	*Serial #	*Capacity (kBtuth)
UCT	First Unit \$500 Furnace			
B	Additional 3800 Boiler	*Manufacturer	*Model #	AFUE (%)
ä	Unit \$250 Furnace			

33	*Select One	*AHRI Certificate #	*Serial #	*Capacity (kBtuh)
UCT	First Unit \$500 Furnace			
0		*Manufacturer	*Model #	AFUE (%)
Ω.	Additional 3800 Boiler			
ä	Unit \$250 Furnace			

4	*Select One	*AHRI Certificate #	*Serial #	*Capacity (kBtulh)
CT	First Unit \$500 Furnace			
ē		*Manufacturer	*Model #	AFUE (%)
2	Additional S800 Boiler			
<b>a</b>	Unit \$250 Furnace			

You must complete this page of the application form; use additional pages if needed. Only enter total rebate amount once if more than 4 units were purchased and installed. Eligible products will be combined into one rebate check for payment, per application submission

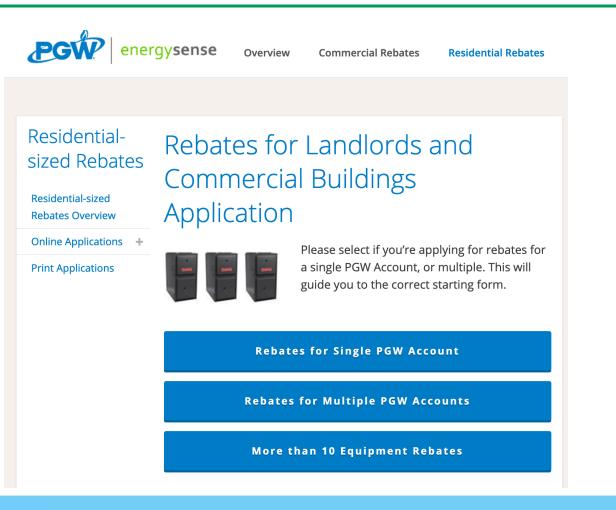
TOTAL # OF UNITS: \_ | TOTAL REBATE AMOUNT EXPECTED: \$

(1) IMPORTANT: Photocopy your entire submission for your records. You could be required to mail, e-mail or fax these photocopies. The submission for your records. You could be required to mail, e-mail or fax these photocopies. The submission of the submission o

Page 2 of 2



## **Large Project Application**





## **Large Project Application Template**

#### Rebates for Landlords and Commercial Buildings Application – Large Project Template



Please fill out the form below to apply. Fields marked with an asterisk \* are required.

#### Step 1

Download the PGW Rebates Large Project Template. After filling in the document with all the required information, return to this page to complete **Step 2**.

Download – PGW Rebates Large Project Template

Rebates limited to \$25,000. For proposed rebates above \$25,000 at an individual address, contact PGW in the planning stages to determine if another EnergySense program is a better fit for your project.



## **Application Checklist**

- Submitted rebate application
- Sales invoice including date and proof of purchase
- Equipment's serial number
- Copy of new equipment's AHRI certificate
- ✓ Copy of your PGW bill

	This boiler qualifies for Feo service between January 1	deral Energy Efficiency Tax Credit when placed , 2014 and December 31, 2014.
Certificate of	Product F	Ratings
AHRI Certified Reference Number : 5684788	Date : 04-10-2018	Model Status : Active
Brand Name : WEIL-MCLAIN		
Model Number : WM97+ 110-CT		
Rated as follows in accordance with the following the independent, third party testing: • Department of Energy Boiler Test Procedure • CAN/CSA P.2 (Gas Boilers) / ANSI/ASHRAI	e as published in the Federal Register,	
AFUE, % : 95.0		
Heating Capacity, MBH : 101		
The following data is for reference only and is	not certified by AHRI	
Material : Stainless Steel		
Location : Indoor		
Ignition : Intermittent/Electronic Ignition		
Fuel Type : Natural Gas, Propane Gas		
Input Rating, MBH : 110.0		
Draft Type : Induced Draft		
Condensing : YES		
Control : Step-Modulating		
Heating Medium : Water		
Net AHRI Rating, Water, MBH : 88.00		



## **Application Checklist**

#### **MOST IMPORTANT**

- AHRI Certificate is a REQUIRED DOCUMENT for rebate processing
- AHRI Certificate must accompany the rebate application
- Provide the AHRI Certified Reference Number

ALC: CERTIFIED®	This boiler qualifies for Feo service between January 1	Jeral Energy Efficiency Tax Credit when placed i , 2014 and December 31, 2014.
<b>Certificate of F</b>	Product R	Ratings
AHRI Certified Reference Number : 5684788 Brand Name : WEIL-MCLAIN	Date : 04-10-2018	Model Status : Active
Model Number : WM97+ 110-CT Rated as follows in accordance with the following test independent, third party testing: . Department of Energy Boiler Test Procedure as . CAN/CSA P.2 (Gas Boilers) / ANSI/ASHRAE S	s published in the Federal Register,	10 CFR Part 430 for United States;
AFUE, % : 95.0 Heating Capacity, MBH : 101		
The following data is for reference only and is not Material : Stainless Steel	certified by AHRI	
Location : Indoor Ignition : Intermittent/Electronic Ignition		
Fuel Type : Natural Gas, Propane Gas Input Rating, MBH : 110.0 Draft Type : Induced Draft Condensing : YES Control : Step-Modulating Heating Medium : Water Net AHRI Rating, Water, MBH : 88.00		



## **Application Checklist**

#### AHRI Directory Listing ≠ AHRI Certificate

- Must click on "Select" to see the actual Certificate
- Click again on the AHRI Certified Reference Number to see the actual Certificate
- Must verify that you have the correct Certificate for your equipment



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## **Residential Equipment Rebates Case Study: HACE Management Company**

- Rebate: \$44,500 across multiple properties
- Measures included:
  - 96% AFUE Furnaces
  - 99% Et Water heaters







# COMMERCIAL EQUIPMENT REBATES



## **Commercial Equipment Rebates**

Equipment	Eligibility	Rebate
Commercial Sized Boilers	85% Et 90% Et	Up to \$6,300 Up to \$8,400
Commercial Hot Water Heaters	≥94% Et	\$4/MBH
Steam Trap Replacements	Based on PSIG	Up to \$250/trap
Food Service Equipment	ENERGY STAR®	Up to \$1,900



## **Commercial-Sized High-Efficiency Boiler Rebates**

85% Thermal Efficiency			
00 /0 mermar Emerciney	Size (kbtu/h)	85% Et	90% Et
	300 - 499	\$ 800	\$ 2,900
* <b>"</b>	500 - 699	\$ 1,400	\$ 3,600
1 5	700 – 899	\$ 2,000	\$ 4,200
\$800 - \$6,300	900 - 1,099	\$ 2,600	\$ 4,800
	1,100 - 1,299	\$ 3,200	\$ 5,400
90% Thermal Efficiency	1,300 - 1,499	\$ 3,800	\$ 6,000
	1,500 - 1,699	\$ 4,400	\$ 6,600
	1,700 - 1,999	\$ 5,200	\$ 7,400
	2,000 - 2,199	\$ 6,000	\$ 8,100
¢2,000, ¢8,400	2,200 - 2,500	\$ 6,300	\$ 8,400
\$2,900 - \$8,400			

Et = Thermal efficiency



#### **Commercial Hot Water Heater Rebates**

Minimum Efficiency
=94% Et

Minimum	Rebate
Efficiency	Amount
=94% Et	\$4/kBtu/h

Source: energystar.gov



#### **Contact Us**

#### Grant Questions

Dan Augustine: <u>daugustine@psdconsulting.com</u> 267-317-0063

#### Rebate Questions

Rebecca Fitzgerald Web submissions: <u>pgwenergysense.com/contact</u> 1-855-PGW-SOLVES (1-855-749-7658)



# Thank you!

