

**BALTIMORE GAS AND ELECTRIC COMPANY (BGE)**  
Home Performance with ENERGY STAR® Program

# Rebate and Incentive Instructions



# BALTIMORE GAS AND ELECTRIC COMPANY (BGE)

## Home Performance with ENERGY STAR® Program

### Rebate and Incentive Instructions



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#### Application Instructions

##### 1. Submit your application.

- Create a Beacon Home Energy Advisor record. Include all of the recommendations that you made after your audit. Then, in the Update Measures screen, uncheck the recommendations that the customer did not accept.
- Use your work scope to complete the Rebate Application. If you are applying for a rebate, you must show that the existing and final condition requirements will be met using the Rebate Worksheet. The requirements are described in the contractor guidebook and in the Rebate Requirements, which are available from your Account Manager. If any work does not meet those requirements, do not include it in the amount that you submit for a rebate. If you do, your application will be rejected and you will need to correct it.
- Scan a signed copy of the Rebate Application, including the Terms and Conditions, the Rebate Worksheet, and a signed copy of your work scope.
- Send your Account Manager an email with the following:
  - Signed Rebate Application (attached to email)
  - Rebate Worksheet (attached to email)
  - Signed scope of work (attached to email)
  - Scenario number for Beacon HEA record
- Your Account Manager will review your submission and let you know whether or not it is accepted. If they have any questions, you will need to provide answers before they can approve your application.

##### 2. Perform the work.

- If it is accepted, work must be completed to meet program standards and the submitted application and contract before it will be approved for payment. If changes to the work scope require changing the application or contract, you must scan and send your Account Manager a signed copy of the Change Order Form and update the Beacon HEA record. Failure to do this or to meet program requirements will cause the application to be rejected.

##### 3. Send your test-out results.

- Once you have completed the job, scan a signed copy of the Test-Out Form and send it to your Account Manager. Your Account Manager will let you know if your application has been approved.

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#### Rebate Requirements Summary

Approved Measures	Existing Condition Requirements	Minimum Efficiency for Measure	Post-Installation Performance Testing/Documentation	Rebates
<b>Audit</b>				
Comprehensive Home Energy Audit (CHEA)	None	The home performance job must be completed within 6 months after the CHEA	Beacon HEA, Scope of Work	Up to \$250, paid to customer
<b>Air Sealing and Insulation</b>				
Air Sealing	None	Minimum 20% reduction in CFM50	Pre- and post-blower door test at 50 pa	15% of cost paid to customer
Attic Insulation	R-22 or less existing insulation for attic (flat)	Insulate attic flat to a minimum of R-38 and attic hatch to a minimum R-30	Post-blower door test to verify ventilation rate	
	R-10 or less existing insulation for attic (slope)	Insulate attic slope to a minimum of R-19 to R-38, as space allows	Post-blower door test to verify ventilation rate	
	R-10 or less existing insulation for attic (kneewall)	Insulate attic kneewalls to a minimum of R-13 (must fill cavity) and install air barrier on attic side	Scope of Work	
Wall Insulation	R-0 existing insulation, 50% or greater of exterior wall surface, above grade walls only	Insulate to R-13	Post-blower door test to verify ventilation rate	
Rim/Band Board	R-0 existing insulation	Air seal & Insulate Rim/Band Board to a minimum of R-13	Post-blower door test to verify ventilation rate	
<b>Water Heating</b>				
Gas Tankless Water Heater	BGE Gas Customer	ENERGY STAR® labeled	Make, Model, Serial Number	15% of cost paid to customer
<i>Note: The rebates above are capped at a combined total of \$1,300, paid to the customer.</i>				
<b>HVAC Equipment Rebate, Duct Sealing, HVAC Tune-Up, Quality Installation</b>				
Central A/C Tier 1	None	14.5 SEER, 12 EER	AHRI Ref #, Make, Model Number, Serial Number	Tier 1: \$175, paid to customer
Central A/C Tier 2	None	15 SEER, 12.5 EER	AHRI Ref #, Make, Model Number, Serial Number	Tier 2: \$350, paid to customer
Heat Pump Tier 1	None	14 SEER, 11.5 EER, 8.5 HSPF	AHRI Ref #, Make, Model Number, Serial Number	Tier 1: \$200, paid to customer
Heat Pump Tier 2	None	15 SEER, 12.5 EER, 8.5 HSPF	AHRI Ref #, Make, Model Number, Serial Number	Tier 2: \$400, paid to customer
Gas Furnace Tier 1	None	92% AFUE	AHRI Ref #, Make, Model Number, Serial Number	Tier 1: \$300, paid to customer
Gas Furnace Tier 2	None	92% AFUE with ECM or ICM	AHRI Ref #, Make, Model Number, Serial Number	Tier 2: \$400, paid to customer
Duct Sealing or Replacement	Duct leakage greater than 10% of cooling high speed fan flow and a portion of the duct distribution system shall be located in unconditioned space	50% reduction in total leakage by comparing pre- and post-test duct leakage OR achieve a minimum total leakage reduction of 150 CFM	Pre- and post-calibrated, metered duct pressurization test	\$200, paid to customer

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Approved Measures	Existing Condition Requirements	Minimum Efficiency for Measure	Post-Installation Performance Testing/Documentation	Rebates
HVAC Tune-Up	BGE Gas Customers using Gas Furnace or Electric Customers using Heat Pump, Central A/C	None	Please refer to the Contractor HVAC Tune-Up Performance Worksheet on BGE's Smart Energy Savers Program <sup>SM</sup> website	\$75, paid to customer
Quality Installation	BGE Gas Customers using Gas Furnace or Electric Customers using Heat Pump, Central A/C	None	Please refer to the Contractor HVAC Quality Installation Performance Worksheet on BGE's Smart Energy Savers Program <sup>SM</sup> website	\$200, paid to customer
<b>Direct Install Measures</b>				
CFLs	High-use incandescent bulbs	ENERGY STAR labeled	Scope of Work	\$5 each, up to 10 bulbs, paid to contractor
Electric Water Heater Tank Wrap	Tank R-value less than R-12	Insulate with an R-6.7 tank wrap	Scope of Work	\$40/water heater, paid to contractor
DHW Pipe Insulation	No heat trap	Minimum ¾" thickness, hot and cold water pipes, vertical pipes, and horizontal for 6' from water heater	Scope of Work	\$18/system, paid to contractor
Efficient-flow Showerheads	Existing showerhead is 2.5 gallons per minute (gpm) or greater	1.8 gpm or less	Scope of Work	\$18 each, up to 2 showerheads, paid to contractor
Faucet Aerators	Existing faucet is 2.5 gpm or greater	1.5 gpm or less	Scope of Work	\$6 each, up to 4 aerators, paid to contractor

## Comprehensive Home Energy Audit (CHEA) Rebate

### Customer Rebate

- Up to \$250
- The CHEA, Air Sealing and Insulation, and Gas Tankless Water Heater rebates are capped at a combined total of \$1,300.

### Rebate Requirements

- Customer must accept work that constitutes a Home Performance job and meets the requirements of the air sealing, insulation, or gas tankless water heater rebates.
- Jobs that consist of only direct-install or HVAC measures will not be considered Home Performance jobs.
- Home Performance work must be completed within 6 months of CHEA

### Examples of Eligible Work

- Home Performance work is completed within 6 months of a CHEA

### Examples of Ineligible Work

- Home Performance work is not completed more than 6 months after a CHEA.

## Air Sealing and Insulation Rebate

### Customer Rebate

- 15% of eligible work cost
- This includes work described below for:
  - Air sealing
  - Attic flat insulation
  - Attic slope insulation (space-constrained assemblies)
  - Attic accesses (hatches and drop-down stairs)
  - Attic kneewall insulation (vertical attic walls)
  - Exterior above-grade wall insulation
  - Band joist insulation
- The CHEA, Air Sealing and Insulation, and Gas Tankless Water Heater rebates are capped at a combined total of \$1,300.

## Air sealing

### Rebate Requirements

- Reduce air leakage  $\geq 20\%$  (CFM50)

### Examples of Eligible Work

- Blower door-guided air sealing
- Boxing and air sealing recessed lights
- Air sealing rim joists
- Backing kneewalls, dense-packing walls
- Dense-packing cantilevers
- Installing blocking in joist bays between cantilever floors and conditioned space or between a bonus room and an unconditioned attic
- Gasketing an attic hatch or door
- Attic hatch cover (must be airtight)

### Examples of Ineligible Work

- Insulating rim joist (unless insulation is spray foam)
- Sealing duct joints
- Replacing a door

#### Attic flat insulation

**Existing Condition Requirements**

- ≤ R-22
  - 6" cellulose
  - 8" blown fiberglass
  - 12" fiberglass batts (fair)

**Final Condition Requirements**

- ≥ R-38 (total R-value of initial and installed insulation)

**Examples of Eligible Work**

- Blowing additional insulation
- Installing baffles at soffit vents to permit additional insulation

**Examples of Ineligible Work**

- Adding insulation that does not raise the final R-value to R-38

#### Attic flat insulation – Hatch requirements

**Existing Condition Requirements**

- ≤ R-22

**Final Condition Requirements**

- ≥ R-30
- Air sealed/weather-stripped
- Fiberglass batts insulation or rigid foam board insulation should be attached to the door with liquid nail, spray adhesive, or caulking.
- To prevent loose-fill insulation falling through opening, a box shall be constructed.
- Box may be framed with wood, plywood, or rigid insulation. A cardboard box is not acceptable.

**Examples of Eligible Work**

- Weather-stripping and insulated with R-30 batts or rigid insulation

**Examples of Ineligible Work**

- Insulation less than R-30 attached to attic hatch
- Batt or rigid insulation not attached to attic hatch
- Batt or rigid board glued or stapled to attic hatch

#### Attic flat insulation – Drop-down staircase requirements

**Existing Condition Requirements**

- Existing insulation, if present, must be below R-22.

**Final Condition Requirements**

- Weather-stripped and insulated to a minimum of R-10
- Insulating boxes can be constructed of rigid foamboard or can be purchased
- Weather-stripping and/or insulation shall not prevent easy operation of stairs
- Box may be framed with wood, plywood, or rigid insulation. A cardboard box is not acceptable.

**Examples of Eligible Work**

- Weather-stripping and insulated to a minimum of R-10

**Examples of Ineligible Work**

- Insulating to less than R-10

#### Attic slope insulation (space-constrained attic assemblies)

**Existing Condition Requirements**

- ≤ R-10

**Final Condition Requirements**

- ≥ R-19 to R-38, as space allows

**Examples of Eligible Work**

- Insulating cavities to at least R-19 that are not deep enough to permit ≥ R-38

**Examples of Ineligible Work**

- Insulating sloped surfaces to R-19 that could be insulated to a higher level

#### Attic kneewall insulation

**Existing Condition Requirements**

- ≤ R-10

**Final Condition Requirements**

- ≥ R-13
- Fully encapsulated insulation

**Examples of Eligible Work**

- Cutting access to insulate and back kneewall
- Blowing attic kneewalls
- Installing full-depth fiberglass batts
- Installing a backside air barrier

**Examples of Ineligible Work**

- Blowing kneewalls using mesh fabric to enclose the cavity

#### Attic kneewall insulation – Hatch requirements

**Existing Condition Requirements**

- ≤ R-10

**Final Condition Requirements**

- ≥ R-13
- Air sealed/weather-stripped
- Fully encapsulated insulation

**Examples of Eligible Work**

- Cutting access to insulate and back kneewall, gasket and insulate with rigid foamboard to R-13
- Attaching rigid foamboard to an existing access to serve as backside air barrier and/or increase R-value to R-13
- Gasketing a properly insulated hatch

**Examples of Ineligible Work**

- Gluing batts to the back of the hatch with no backside barrier
- Insulating the hatch with 1" of XPS (R-5)

#### Exterior above-grade wall insulation

**Existing Condition Requirements**

- ≥ 50% of above grade exterior wall R-0

**Final Condition Requirements**

- ≥ R-13

**Examples of Eligible Work**

- Dense-packing uninsulated wall sections
- Removing and reattaching siding to blow walls
- Insulating under-insulated cavities with low-expansion foam

**Examples of Ineligible Work**

- Insulating a kneewall—Kneewall insulation should be submitted in the Kneewall Insulation section and meet those requirements.
- Insulating a band joist—Band joist insulation should be submitted in the Band Joist Insulation section and meet those requirements.

#### Band joist insulation

**Existing Condition Requirements**

- R-0

**Final Condition Requirements**

- ≥ R-13
- Air sealed

**Examples of Eligible Work**

- Air sealing and insulating basement or crawlspace rim joist. (Consistent with Beacon Home Energy Advisor, band joists between conditioned stories are considered part of the Exterior Above-Grade Wall Insulation Rebate.)

**Examples of Ineligible Work**

- Insulating rim joists without air sealing



#### Gas Tankless Water Heater Rebate

##### Customer Rebate

- 15% of cost
- The CHEA, Air Sealing and Insulation, and Gas Tankless Water Heater rebates are capped at a combined total of \$1,300.

##### Existing Condition Requirements

- BGE Gas Customer

##### Final Condition Requirements

- Installation of ENERGY STAR® labeled gas tankless water heater

#### HVAC Rebates

##### Central A/C and Air-Source Heat Pumps

##### Customer Rebate

AHRI Rated Central A/C Units	
Tier 1: $\geq 14.5$ SEER, $\geq 12$ EER	\$175
Tier 2: $\geq 15$ SEER, $\geq 12.5$ EER	\$350
AHRI Rated Air Source Heat Pumps	
Tier 1: $\geq 14$ SEER, $\geq 11.5$ EER, $\geq 8.5$ HSPF	\$200
Tier 2: $\geq 15$ SEER, $\geq 12.5$ EER, $\geq 8.5$ HSPF	\$400

##### Existing Condition Requirements

- BGE Electric Customer

##### Final Condition Requirements

- Installation of new CAC or ASHP with efficiency at or above qualifying tiers, above, by contractor participating in BGE HVAC Equipment Program

##### Gas Furnaces

##### Customer Rebate

AHRI Rated Gas Furnaces	
Tier 1: $\geq 92$ AFUE	\$300
Tier 2: $\geq 92$ AFUE w/ ECM or ICM	\$400

##### Existing Condition Requirements

- BGE Gas Customer

##### Final Condition Requirements

- Installation of new furnace with efficiency at or above qualifying tiers, above, by contractor participating in BGE HVAC Equipment Program

#### Duct Sealing Rebate

**Customer Rebate**

- \$200

**Existing Condition Requirements**

- BGE gas customer using gas furnace; OR
- BGE electric customer using heat pump or central A/C
- Leakage  $\geq$  10% of cooling high speed fan flow
- A portion of ductwork in unconditioned space

**Final Condition Requirements**

- $\geq$  50% reduction in total leakage (CFM25); OR
- 150 CFM25 reduction in total leakage

**Examples of Eligible Work**

- Sealing air handler, plenums, boots, and metal/flex duct connections on a system with some ductwork in unconditioned space to reduce total duct leakage by 150 CFM25

**Examples of Ineligible Work**

- Sealing ductwork that is completely within conditioned space
- Sealing ductwork without performing a metered, calibrated leakage test before and after
- Sealing is done with improper materials (e.g., duct tape in any instance; UL-181 tape, except on ductboard systems and the air handler)

#### HVAC Quality Installation Rebate

**Customer Rebate**

- \$200

**Existing Condition Requirements**

- BGE gas customer using gas furnace; OR
- BGE electric customer using heat pump or central A/C

**Final Condition Requirements**

- Documented completion of BGE HVAC QI protocol

**Examples of Eligible Work**

- Quality Installation of an eligible new heat pump, central A/C, or gas furnace from a contractor participating in BGE HVAC QI program

**Examples of Ineligible Work**

- Quality Installation Worksheet is not properly completed
- Equipment is installed by a contractor not participating in the BGE HVAC QI Program

#### HVAC Diagnostic Tune-Up Rebate

**Customer Rebate**

- \$75

**Existing Condition Requirements**

- BGE gas customer using gas furnace; OR
- BGE electric customer using heat pump or central A/C

**Final Condition Requirements**

- Documented completion of BGE Diagnostic Tune-Up protocol

**Examples of Eligible Work**

- Diagnostic Tune-Up performed by a contractor participating in BGE HVAC Diagnostic Tune-Up Program

**Examples of Ineligible Work**

- Diagnostic Tune-Up Worksheet is not completed
- Tune-up is performed by a contractor not participating in the BGE HVAC Diagnostic Tune-Up Program

#### Direct Install Measure Requirements

The baseload measures below are extremely cost-effective ways to deliver comprehensive jobs that address water heating and lighting consumption. The incentive amounts listed are paid directly to the reporting contractor, not to the customer. They are designed to offset the materials and labor of installing standard models of each measure. Contractors are required to install these measures, as appropriate, in every Home Performance job, at no charge to the customer. If a customer requests it, contractors can offer premium models of these measures, and are free to determine costs to the customer. All measures must be installed; measures cannot be left behind for customer installation.

#### Compact Fluorescent Light Bulbs

**Contractor direct install payment**

- \$5 each, up to 10 bulbs

**Existing Condition Requirements**

- Incandescent bulbs in high-use fixtures ( $\geq 4$  hours/day)

**Final Condition Requirements**

- ENERGY STAR qualified CFLs

#### Electric Water Heater Tank Wrap

**Contractor direct install payment**

- \$40 per water heater

**Existing Condition Requirements**

- Tank  $\leq R-12$

**Final Condition Requirements**

- $\geq R-6.7$  tank wrap
- Do not install on gas, oil, or propane-fired water heaters

#### Water Heater Pipe Insulation

**Contractor direct install payment**

- \$18/system

**Existing Condition Requirements**

- No heat trap

**Final Condition Requirements**

- $\geq 3/4$ " thick pipe insulation
- Both hot and cold water pipes insulated for 6 linear feet from tank
- Pipe insulation must be kept at least 6" away from single-walled flues and 1" away from double-walled flues

#### Efficient-Flow Showerhead

**Contractor direct install payment**

- \$18 each, up to 2

**Existing Condition Requirements**

- $\geq 2.5$  gpm showerhead

**Final Condition Requirements**

- $\leq 1.8$  gpm showerhead

#### Faucet Aerators

**Contractor direct install payment**

- \$6 each, up to 4

**Existing Condition Requirements**

- $\geq 2.5$  gpm from tap

**Final Condition Requirements**

- $\leq 1.5$  gpm aerator

#### Water Heater Turn-Down

##### Contractor direct install payment

- None

##### Existing Condition Requirements

- Initial setpoint  $\geq 130^{\circ}\text{F}$

##### Final Condition Requirements

- Final setpoint:  $120^{\circ}\text{F}$

#### Best Practices (Not Requirements)

#### Cantilever Floor Insulation

##### Existing Condition

- Existing insulation, if present, is in "Poor" condition per BPI standards, and is substantially misaligned with air barriers, or air barriers are missing

##### Final Condition

- $\geq R-25$
- Fill cavity to maintain permanent contact with both the top- and bottom-side air barriers ceiling below
- Fully encapsulated insulation with top- and bottom-side air barriers and sealed blocking at edges, including the inside edge of the wall top plate across the cantilever to separate the cantilever from conditioned space
- If installing sealed rigid blocking at edges is impractical, dense-pack or take other steps to address air leakage
- Cavity does not need to be completely filled if spray foam is used, since it is itself an air barrier at the requisite thickness.

##### Examples of Best-Practice Work

- Netting and blowing insulation to fill an uninsulated cavity
- Dense-packing cavities with existing fiberglass insulation to compress it against the subfloor
- Dense-packing cellulose at the edges, where installing rigid blocking is impractical
- Sheathing the bottom side of a cantilever floor that is already fully insulated with sealed blocking at the edges
- Spray foaming a garage ceiling beneath a conditioned room