**Effective January 1, 2024, Energy Trust offers the following incentives for qualifying new natural gas and electric energy-saving equipment installed at a commercial, municipal or institutional facility in the State of Oregon:**

* Incentives are subject to change. To apply, submit a complete Energy Trust incentive application with all required accompanying documentation by the deadline listed in the application form.
* Electric customers of Portland General Electric and Pacific Power can apply for incentives for qualifying electric equipment, and natural gas customers on eligible rate schedules of NW Natural, Cascade Natural Gas or Avista can apply for incentives for qualifying natural gas equipment.

**Lodging and Foodservice Equipment**

| **Equipment** | **Requirements** | | | **Incentive** |
| --- | --- | --- | --- | --- |
| Ductless Heat Pump (DHP) | Must have a minimum efficiency of 18 SEER or SEER2 and 10 HSPF or 9.5 HSPF2. Must be a single compressor system with up to two heads per dwelling unit. Eligible only for lodging. Only new installation or replacement applications qualify. | | | $500 per ton of cooling capacity |
| Packaged Terminal Heat Pump (PTHP) | Must replace electric resistance heat or a packaged terminal air conditioner (PTAC) with existing electric resistance heating. Qualified models must be found on the PTHP list here: [www.ahridirectory.org](http://www.ahridirectory.org). Eligible only for lodging. | | | $800 each |
| ENERGY STAR®  Commercial Laundry Washer, Common areas | Clothes washers must be front-loading machines and [ENERGY STAR rated](https://www.energystar.gov/productfinder/product/certified-commercial-clothes-washers/results)\*.  Water heating provided by a participating utility. Leased equipment must be new. A signed lease agreement and documentation that identifies washer quantity, model number(s), and retail cost of clothes washer are required. | Dryer Type | Participating Utility |  |
| Electric | Gas or Electric | $400 each |
| Gas | Gas or Electric | $350 each |
| Electric/ Gas | Electric Only | $150 each |
| Electric/ Gas | Gas only | $100 each |
| Gas-fired Automatic Conveyor Broiler | Automatic conveyor with catalyst. Input rate must be below 80 kBtu/h or dual stage or modulating gas valve with a capability of throttling the input rate below 80 kBtu/h. Installed under a Type I Vent Hood. | Total conveyor belt width less than 20” | | $2,500 each |
| Total conveyor belt width 20” to 26” | | $3,000 each |
| Total conveyor belt width greater than 26” | | $3,500 each |
| Two-stage Gas Valve on Clothes Dryers | Valves must be installed on commercial gas-fired dryers. Dryers must have 200 or fewer pounds of dry clothes capacity or 65 or fewer cubic feet of dryer drum volume. Valves can be installed on new or existing gas-fired dryers. Sites with on-premises laundry are eligible. Coin-operated laundromats are not eligible. | | | $700 each |

\* ENERGY STAR ratings: <https://www.energystar.gov/productfinder/product/certified-commercial-clothes-washers/results>

**Lodging and Foodservice Equipment *continued***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Equipment** | **Requirements** | | | **Incentive** | |
| Ozone Laundry Systems | Each ozone laundry system must be new and installed on either new or existing programmable commercial washing machine(s). Each ozone generator may serve one or more washers. All existing/new washers at a facility must be reprogrammed and connected to work with the new ozone laundry system. Partial conversions are not eligible. Water heating for clothes washing must be provided by boilers, or gas or electric water heaters. Water heating must be provided by a participating utility. The ozone laundry system(s) must transfer ozone into the water with either the venturi injection or bubble diffusion process. | | Total laundry capacity is less than 75 lbs: | $5,000 per system | |
| Total laundry capacity is between 75 and 125 lbs: | $7,500 per system | |
| Total laundry capacity is between 126 and 400 lbs: | $15,000 per system | |
| Total laundry capacity is between 401 and 600 lbs: | $25,000 per system | |
| Total laundry capacity is greater than 600 lbs: | $30,000 per system | |
| Electric Combination Oven – 3-4 Pan Capacity | Must be active on [ENERGY STAR certified product list (version 3.0)\*](https://www.energystar.gov/productfinder/product/certified-commercial-ovens/results). | | | $500 each | |
| Electric Combination Oven – 5-40 Pan Capacity | Must be active on [ENERGY STAR certified product list (version 3.0)\*](https://www.energystar.gov/productfinder/product/certified-commercial-ovens/results) | | | $1,000 each | |
| Double Rack Gas Oven | Must be active on [ENERGY STAR certified product list (version 3.0)\*](https://www.energystar.gov/productfinder/product/certified-commercial-ovens/results). One removable double rack or two removable single racks to accommodate two full sheets per level, each pan at least 18” x 26” x 1”. | | | $2,000 each | |
| Electric Convection Oven – Full-size | Must be active on [ENERGY STAR certified product list (version 3.0)\*](https://www.energystar.gov/productfinder/product/certified-commercial-ovens/results). Accommodates standard full-size sheet pans measuring at least 18” x 26” x 1”. | | | $500 each | |
| Electric Convection Oven – Half-size | Must be active on [ENERGY STAR certified product list (version 3.0)\*](https://www.energystar.gov/productfinder/product/certified-commercial-ovens/results). Accommodates half-size sheet pans measuring at least 18” x 13” x 1”. | | | $300 each | |
| Commercial Ice Maker | Must be active on  [ENERGY STAR certified product list (version 3.0)\*](https://www.energystar.gov/productfinder/product/certified-commercial-ovens/results). | Batch Self-contained Unit (SCU) - 200-4,000 lbs. per day | | $180 each |
| Batch Remote Condensing Unit (RCU) - 988-4,000 lbs. per day | | $400 each |
| Continuous Remote Condensing Unit (RCU) - 800-4,000 lbs. per day | | $400 each |
| Batch Ice-Making Head (IMH) - 1,500-4,000 lbs. per day | | $400 each |
| Continuous Ice-Making Head (IMH) - 820-4,000 lbs. per day | | $400 each |
| Electric Hot Foot Cabinet – Half-size | Must be active on [ENERGY STAR certified product list (version 2.0)\*\*](https://www.energystar.gov/productfinder/product/certified-commercial-hot-food-holding-cabinets/results). Interior volume must be less than 13 cubic feet. | | | $450 each | |
| Gas Steam Cooker | Cooking energy efficiency must be at least 43%. Idle Rate must be 2,770 BTU/hr or less | | | $3,400 each | |
| Electric Steam Cooker | Cooking energy efficiency must be at least 62%. Idle Rate must be 300W or less | | | $2,500 each | |

**\*** ENERGY STAR certified product list (version 3.0): <https://www.energystar.gov/productfinder/product/certified-commercial-ovens/results>

\*\* ENERGY STAR certified product list (version 2.0): <https://www.energystar.gov/productfinder/product/certified-commercial-hot-food-holding-cabinets/results>

**Lodging and Foodservice Equipment *continued***

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| --- | --- | --- | --- |
| **Equipment** | **Requirements** | | **Incentive** |
| Commercial Vent Hood with Demand Controlled Ventilation | Motor speeds must be controlled by a programmable controller, with scheduling, occupancy sensing, and heat sensing capabilities. Variable speed control must be installed on both the make-up air unit motor and the hood exhaust motor. Both motors must be functional. Make-up air must be tempered. Total controlled motor horsepower must be at least 1.0 hp and cannot exceed total existing horsepower of make-up air unit and exhaust fan motor. | Gas heat or electric heat | $1,500 per controlled motor horsepower |
| Gas or other non-electric heat in electric only territory | $900 per controlled motor horsepower |
| Dishwasher,  Single Tank with Conveyor | Must be active on [ENERGY STAR certified product list (version 3.0)](https://www.energystar.gov/productfinder/product/certified-commercial-dishwashers/results)\*. Dishwasher can be low, dual, or high temperature. Site must receive electricity from a participating utility. | | $900 each |
| Dishwasher,  Multi-Tank with Conveyor | Must be active on [ENERGY STAR certified product list (version 3.0)](https://www.energystar.gov/productfinder/product/certified-commercial-dishwashers/results)\*. Dishwasher must be dual or high temperature. Site must receive electricity from a participating utility. | | $900 each |

**\*** ENERGY STAR certified product list (version 3.0): <https://www.energystar.gov/productfinder/product/certified-commercial-dishwashers/results>

**Lodging and Foodservice Equipment *continued***

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| --- | --- | --- | --- |
| **Equipment** | **Requirements** | | **Incentive** |
| Commercial Pool Cover | Pool must be heated. Pool must not have had a pre-existing cover within 6 months of pool cover installation. Covers installed at residential pools do not qualify. Eligible sites include commercial pools within lodging, fitness centers and municipal centers. Cover must be specifically designed for swimming pools, cover entire pool surface area and utilize a storage reel. Liquid evaporation suppressants, solar disks and mesh covers are ineligible. Pool heating fuel must be provided by participating utility. | | $6.00 per sq ft of pool surface area |
| Commercial Swimming Pool Heater | Must be a replacement, gas-fired pool heater. Heater must not have a continuously burning pilot light. Must have at most 400 kBtu/h capacity per heater, not to exceed a total (or maximum) of 1,000 kBtu/h for all heaters combined. Must have at least 94% thermal efficiency for condensing heaters, or at least 84% efficiency for non-condensing heaters. Site must receive gas from a participating utility. Covered and not covered pools both qualify. Eligible pool covers include solid track, bubble type, or foam type with storage reels. Pool must meet minimum area requirements as listed below. | Non-condensing Heater, Covered | $0.90 per sq ft of area served by heater |
| Non-condensing Heater, Not covered | $1.00 per sq ft of area served by heater |
| Condensing Heater, Covered | $3.00 per sq ft of area served by heater |
| Condensing Heater, Not covered | $5.00 per sq ft of area served by heater |
| The pool must meet the following minimum area requirements:   |  |  |  |  | | --- | --- | --- | --- | | Heater Type | Covered Pool? | Indoor or Outdoor Pool | Minimum Required Pool Sq. Ft. | | Condensing | No | Indoor | 1,275 | | Outdoor | 700 | | Condensing | Yes | Indoor | 2,150 | | Outdoor | 1,050 | | Non-condensing | No | Either | 500 | | Non-condensing | Yes | Indoor | 850 | | Outdoor | 500 | | | |

**Grocery Equipment**

|  |  |  |  |
| --- | --- | --- | --- |
| **Equipment** | **Requirements** | | **Incentive** |
| Anti-sweat Heater Controls (ASH) | Eligible heater controls must reduce sweat by sensing humidity, dew point, or condensation. Site must not have an existing refrigeration energy management system, including ASH controls. Site receives electricity from a participating utility. | Low temperature case  (below 0°F) | $80 per linear ft of door |
| Medium temperature case  (between 1°F and 35°F) | $60 per linear ft of door |
| Evaporator Fan Motors | Must be installed in an existing, functional walk-in or reach-in refrigeration case with electronically commutated motor (ECM) or permanent magnet synchronous motors (PMSM). Existing case motor must be either shaded pole (SP) or permanent split capacitor (PSC) motor. Site receives electricity from a participating utility. New walk-in or reach-ins are ineligible. | Walk-in case, from a SP | $180 per motor replaced |
| Walk-in case, from a PSC | $180 per motor replaced |
| Reach-in case, from a SP | $150 per motor replaced |
| Reach-in case, from a PSC | $150 per motor replaced |
| Doors on Open Freezers or Open Refrigerated Cases | Must add doors to existing functional open freezers or refrigerated cases. Self-contained refrigeration cases (integrated condensing units) are ineligible. Low temperature is at or below 0°F. Medium temperature is between 1°F and 35°F. | Gas building heat type. Site receives electricity from a participating utility. Medium or Low Case Temperature. | $400 per linear ft of door |
| Electric or non-participating gas building heat type. Site receives electricity from a participating utility. Medium or Low Case Temperature. | $350 per linear ft of door |
| Gas building heat type. Site receives electricity from a non-participating utility. Medium or Low Case Temperature. | $160 per linear ft of door |

**Grocery Equipment *continued***

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| --- | --- | --- | --- |
| **Equipment** | **Requirements** | | **Incentive** |
| New Cooler Cases with Doors | Must be a new refrigerated display case with doors, additional cases are added or existing cases are replaced. Doors must be transparent. Cases with solid doors do not qualify. Refurbished cases do not qualify. Can be installed at sites with electric or gas heat, or at sites with gas or other heat, with no participating gas provider. | Vertical cases - Coolers only | $150 per linear ft of door |
| Horizontal cases - Coolers or Freezers | $150 per linear ft of door |
| Self-Contained Unit - Horizontal Freezer  at site with gas heat, with no participating gas provider | $150 per linear ft of door |
| Strip Curtains | Must be installed where no infiltration barriers exist in walk-in coolers or freezers. Display cases are ineligible. Must be contractor-installed. Eligible only for grocery stores and supermarkets, restaurants and warehouses. To qualify for a walk-in cooler, project site must be a grocery store or a warehouse. To qualify for a walk-in freezer, project site must be a grocery store or a restaurant. Low temperature is at or below 0°F. Medium temperature is between 1°F and 35°F. | Walk-in cooler for grocery stores and warehouses | $12.00 per sq ft |
| Walk-in freezer for grocery stores and restaurants | $12.00 per sq ft |
| ENERGY STAR Vertical Reach-in Refrigerator | Must meet [ENERGY STAR requirements (version 5.0)](https://www.energystar.gov/productfinder/product/certified-commercial-refrigerators-and-freezers/results)\*. Case must be packaged and self-contained with a built-in cooling compressor. Case must have glass doors. Used or rebuilt cases do not qualify. Cases with remote refrigeration systems do not qualify. Refrigerator volume must be less than 15 cubic feet. Site must receive electric service from a participating utility. | | $20 each |
| ENERGY STAR Vertical Reach-in Freezer | Must meet [ENERGY STAR requirements (version 5.0)](https://www.energystar.gov/productfinder/product/certified-commercial-refrigerators-and-freezers/results)\*. Case must be packaged and self-contained with a built-in cooling compressor. Case must have glass doors. Used or rebuilt cases do not qualify. Cases with remote refrigeration systems do not qualify  Horizontal or chest-style freezers do not qualify. Site must receive electric service from a participating utility. | Volume less than 15 cubic feet | $40 each |
| Volume 15 - 29.9 cubic feet | $80 each |
| Volume 30 - 49.9 cubic feet | $190 each |
| Volume At least 50 cubic feet | $325 each |

\* ENERGY STAR qualifying models (version 5.0): <https://www.energystar.gov/productfinder/product/certified-commercial-refrigerators-and-freezers/results>

**Grocery Equipment *continued***

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| --- | --- | --- | --- | --- |
| **Equipment** | **Requirements** | | | **Incentive** |
| Floating Head Pressure Control (FHPC),  Compressor Rack | Adding a FSPC to a compressor rack control system. Existing rack system must not have FHPC or FSPC. | Air Cooled Condenser | | $60 per compressor hp |
| Evaporatively Cooled Condenser | | $60 per compressor hp |
| Floating Suction Pressure Controls (FSPC),  Compressor Rack | Adding a FSPC to a compressor rack control system. Existing rack system must not have FHPC or FSPC. | Air Cooled Condenser | | $60 per compressor hp |
| Evaporatively Cooled Condenser | | $60 per compressor hp |
| FHPC and FSPC, Compressor Rack | Adding a FHPC and FSPC, concurrently, to a compressor rack control system. Existing rack system must not have FHPC or FSPC. Cannot be combined with FSPC or FHPC Compressor Rack measures. | Air Cooled Condenser | | $130 per compressor hp |
| Evaporatively Cooled Condenser | | $130 per compressor hp |
| Condenser Fan Variable Frequency Drive (VFD), Compressor Rack | Adding a single VFD to control an existing multi-fan condensing unit. Existing condenser multi-fan systems must not have VFD | | Air Cooled Condenser | $850 per fan motor hp |
| Evaporatively Cooled Condenser | $850 per fan motor hp |
| On-demand Overwrapper | Use either a mechanical or optical control system to detect product.. | | | $350 each |

**Insulation**

Must be installed at a site heated by electricity or gas provided by participating utilities, or gas/other heat at a site with gas not provided by a participating utility.

Must be installed in areas of the building envelope that separate conditioned space and unconditioned space. Insulation installed between conditioned spaces is ineligible.

| **Upgrade** | **Existing Condition** | **New Condition** | **Requirements** | **Incentive** |
| --- | --- | --- | --- | --- |
| Attic Insulation | R-9 or less | R-25 | Insulate to at least R-25 efficiency rating or fill cavity. Damaged or missing insulation must be prequalified and documented by the installation contractor. | $0.90 per sq ft |
| Roof Insulation | R-0 | R-15 | Insulate to at least R-15 efficiency rating or fill cavity below R-15. No existing insulation, unless existing is damaged or missing. Damaged or missing insulation must be prequalified and documented by the installation contractor. | $2.85 per sq ft |
| Roof Insulation | R-0 | R-30 | Insulate to at least R-30 efficiency rating or fill cavity above R-15. Damaged or missing insulation must be prequalified and documented by the installation contractor. | $2.85 per sq ft |
| Roof Insulation | R-5 or less | R30 | Existing insulation is R-5 or less. Insulate to at least R-30 efficiency rating or fill cavity. Damaged or missing insulation must be prequalified and documented by the installation contractor. | $1.00 per sq ft |
| Wall Insulation | R-6 or less | R-20 | Insulate to at least R-20 efficiency rating or fill cavity. Damaged or missing insulation must be prequalified and documented by the installation contractor. | $1.30 per sq ft |

**Pipe Insulation**

| **Equipment** | **Existing Condition** | **Requirements** | | **Incentive** |
| --- | --- | --- | --- | --- |
| Pipe Insulation | No Insulation | Must not have existing insulation. Jacketing must provide an appropriate level of protection for the insulation under the given environmental conditions to maintain the life of the insulation. This will commonly be All Service Jacketing (ASJ) or PVC in indoor applications and aluminum or stainless steel jacketing for outdoor projects.. Piping must be part of a system using natural gas provided by a participating utility. Water heaters or boilers providing hot water or steam to uninsulated pipes must be natural gas-fired.   |  |  |  | | --- | --- | --- | | **Fluid** | **Pipe Diameter** | | | **1.5 inches or less** | **Greater than 1.5 inches** | | Domestic Hot Water | 1.5 Inches | 2.0 Inches | | Heating Hot Water | | Low Pressure | | Medium Pressure | 2.0 Inches | 2.5 Inches | | Piping serving domestic hot water | $18.00 per linear foot |
| Piping serving medium pressure steam (15-200 psig) | $25.00 per linear foot |
| Piping serving heating hot water | $25.00 per linear foot |
| Piping serving low pressure steam (less than 15 psig) | $25.00 per linear foot |

**HVAC and Water Heating Equipment**

|  |  |  |  |
| --- | --- | --- | --- |
| **Equipment** | **Requirements** | | **Incentive** |
| New Rooftop Unit (RTU) with Economizer | All installed RTUs must be new units with Direct Expansion (DX) cooling and either gas furnace or heat pump heating. Must have cooling capacity less than 54 kBtu/h. Economizer must be factory-installed or contractor-installed at the same time as RTU. Site must receive electricity from a participating utility. | Space heated by electric heat pump | $30 per ton |
| Space heated by gas furnace | $30 per ton |
| New Rooftop Unit (RTU) with Demand Control Ventilation (DCV) | All installed RTUs must be new units with Direct Expansion (DX) cooling and either gas furnace or heat pump heating. Must serve spaces not required by code to have DCV. Economizer must factory-installed or contractor-installed at the same time as RTU, with DCV included\*. Heating must be provided by a participating utility. | Space heated by electric heat pump | $29 per ton |
| Space heated by gas furnace | $29 per ton |
| New Rooftop Unit (RTU) with Variable Speed Supply Fan | All installed Rooftop Units (RTUs) must be new units with Direct Expansion (DX) cooling and heat pump heating. Gas furnace heating does not qualify. Must have cooling capacity less than 65 kBtu/h. Variable speed supply fan and economizer must be factory-installed or contractor-installed at the same time as RTU, with DCV included\*\*. Site must receive electricity from a participating utility. | Space heated by electric heat pump | $100 per ton |
| Infrared Radiant Heater | Must be natural gas-fired, low intensity, non-condensing and positive pressure system. Indoor area use only, no greater than 20,000 square feet. Site must receive gas from a participating utility. | Non-Modulating | $1.25 per kBtu/h input |
| Modulating | $2.25 per kBtu/h input |
| Advanced Rooftop Controls (ARC) - Lite Retrofit | Business must meet minimum annual operating hours requirements. Existing system must have a nominal cooling capacity of at least 5 tons. Existing system must have a single speed supply fan or motor. Existing systems equipped with a variable frequency drive (VFD) do not qualify. Existing systems with economizers do not qualify. Installed equipment must have a VFD and controller for variable speed fan operation. Installed equipment controls must be listed on [BPA qualifying product list](https://www.bpa.gov/-/media/Aep/energy-efficiency/document-library/advanced-rooftop-unit-control-qualified-products-list.pdf)+. | Electric or gas heat rooftop unit.  Site must receive electricity from a participating utility and gas from a non-participating utility. Must have at least 2,500 operating hours. | $200 per ton |
| Electric or gas heat rooftop unit.  Site must receive electricity and gas from a participating utility. Sites with electric heat must have at least 2,500 operating hours, sites with gas heat must have at least 3,500 operating hours. | $200 per ton |

\* RTU cooling capacities of less than 54 kBtu/h may qualify for both the New RTU with Economizer and New RTU with DCV incentives

\*\* RTU cooling capacities of less than 54 kBtu/h and which serve spaces not required by code to have DCV, may qualify for all of the following three incentives: New RTU with Economizer, New RTU with DCV and New RTU with Supply Fan VFD

+ BPA qualifying product list: <https://www.bpa.gov/-/media/Aep/energy-efficiency/document-library/advanced-rooftop-unit-control-qualified-products-list.pdf>

**HVAC and Water Heating Equipment *continued***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Equipment** | **Requirements** | | | **Incentive** |
| Advanced Rooftop Controls (ARC) - Full Retrofit | Business has annual operating hours of at least 500 annual operating hours. Existing system must have a nominal cooling capacity of at least 5 tons. Existing system must have a single speed supply fan or motor. Existing systems equipped with a Variable Frequency Drive (VFD) or a CO2 sensor for Demand Control Ventilation (DCV) do not qualify. Existing systems with economizers do not qualify. Installed equipment must have a controller with digital, integrated economizer with either differential dry-bulb or differential enthalpy with fixed dry-bulb high-limit shutoff. Installed equipment must have a controller with DCV with proportional control based on CO2 sensor reading. Installed equipment controls listed on [BPA qualifying product list\*](https://www.bpa.gov/-/media/Aep/energy-efficiency/document-library/advanced-rooftop-unit-control-qualified-products-list.pdf). | Gas heat rooftop unit. Site received electricity from a non-participating utility and gas from a participating utility | | $300 per ton |
| Electric or gas heat rooftop unit. Site received electricity from a participating utility and gas from a non-participating utility | | $300 per ton |
| Electric or gas heat rooftop unit. Sites received electricity and gas from a participating utility | | $300 per ton |
| Air-Cooled Variable Refrigerant Flow (VRF) Multi-Split Ductless Heat Pump | Must be installed in buildings primarily used for retail, offices or school classrooms. Must install dedicated outdoor air supply (DOAS) with energy recovery meeting at least 50% enthalpy recovery efficiency. Each condenser unit must serve multiple ductless indoor evaporator units and must have a rated cooling capacity over 5 tons with variable speed compressor operation. DOAS air must be supplied at a neutral space temperature. Must meet or exceed [2016 CEE Tier 1 air-cooled VRF efficiency levels\*\*](https://www.energytrust.org/wp-content/uploads/2018/07/Appendix_A_2016-18_CEE_ComACHP_UnitarySpec.pdf). The Majority of indoor unit fans must be set to cycle rather than run continuously during occupied hours. Electric resistance heating should not be used for pre-heating ventilation air. | | | $1.00 per sq ft of area served by VRF |
| **Standard DOAS:** Minimum fan efficiency 40% or minimum fan efficiency index target 0.82 | | | |
| **High Efficiency DOAS:** Minimum fan efficiency 65% or minimum fan efficiency index target 1.55 | | | |
| Steam Trap | Must replace or repair a failed, open existing steam trap. Must be installed on a gas-fired steam boiler system served by participating gas utility. All steam traps in the system must be tested for failure status prior to replacement or repair. All systems must be no greater than 50 psig. For repaired traps, invoices for steam trap repair parts are required. For steam traps at a dry cleaning facility, see **Service Shop & Warehouse equipment** section. | | Replaced steam trap | $500 each |
| Repaired steam trap | $400 each |

\* BPA qualifying product list: <https://www.bpa.gov/-/media/Aep/energy-efficiency/document-library/advanced-rooftop-unit-control-qualified-products-list.pdf>.

\*\* 2016 CEE Tier 1 Air-Cooled VRF efficiency levels listed on pages 4-5 of “Appendix A: 2016 Through Commercial Unitary Air Conditioning and Heat Pumps Specification; Effective January 12,2013 through December 31,2018”. <https://www.energytrust.org/wp-content/uploads/2018/07/Appendix_A_2016-18_CEE_ComACHP_UnitarySpec.pdf>

**HVAC and Water Heating Equipment *continued***

|  |  |  |  |
| --- | --- | --- | --- |
| **Equipment** | **Requirements** | | **Incentive** |
| Commercial Condensing Tank Water Heater | Gas-condensing, storage-type water heater must have an integral tank volume at least 10 gallons. Water heater input capacity must be greater than 75 kBtu/h per water heater. Must have at least 94% thermal efficiency (TE) or recovery efficiency. All building types eligible excluding offices less than 5,500 sq ft and commercial gyms without shower facilities. Additional storage-only tanks may be present. Site must have water heating provided by a participating utility. Projects where existing water heater is functional, and not at the end of its useful life, do not qualify. | | $3.50 per kBtu/h |
| Commercial Condensing Tankless Water Heater  under 200 kBtu/h input | Gas-condensing units must function as central source for domestic hot water (DHW) heating. Water Heater Uniform Energy Factor (UEF) must be at least 0.94. Water heater input capacity must be less than 200 kBtu/h per water heater. Additional hot water storage tanks cannot be added. Approved models must be found here: [www.ahridirectory.org](http://www.ahridirectory.org). Projects where existing water heater is functional, and not at the end of its useful life, do not qualify. | | $140 each |
| Commercial Condensing Tankless Water Heater/ Boiler at least 200 kBtu/h input | Gas-condensing domestic hot water (DHW) must not be used for space heating and must serve a central water heating system. Integral tank volume must be less than 10 gallons. Must have at least 94% thermal efficiency (TE). Water heater input capacity must be at least 200 kBtu/h per water heater. All building types eligible excluding offices less than 5,500 sq ft and commercial gyms without shower facilities. Approved models must be found here: www.ahridirectory.org. | | $1.40 per kBtu/h input |
| Gas-fired High Efficiency Condensing HVAC Boiler | Must have at least 94% efficiency, either Annual Fuel Utilization Efficiency (AFUE) or thermal efficiency. Must have at least 5-to-1 turndown ratio. Must not be a backup , redundant or lagging boiler. Must be used for HVAC purposes: boilers used for domestic hot water (DHW), pool heating, and “heat adders” that serve water-source heat pump systems do not qualify. Cannot be combined with the Modulating Boiler Burner measure. | | $6.50 per kBtu/h input |
| Modulating Boiler Burner | Must be installed on a natural gas-fired boiler used for hydronic heating (HVAC). Must replace a dual stage burner or an on-off burner. Must have at least 5-to-1 turndown ratio. Boilers used for process heating, domestic hot water (DHW) or pool heat do not qualify. Cannot be combined with the Gas-fired High Efficiency Condensing HVAC Boiler measure. | | $10.00 per kBtu/h of burner rated capacity |
| Commercial Condensing Gas Furnace | Must be primary heating source for the space. Input capacity must be less than 225,000 Btu/h. Must have at least 95% Annual Fuel Utilization Efficiency (AFUE). Must have either multispeed or variable speed Electronically Communicated Motor (ECM) supply fan. | Sites with gas heating, gas and electricity provided by participating utilities | $8.25 per kBtu/h input |
| Sites with gas heating, only gas provided by a participating utility | $8.00 per kBtu/h input |

**HVAC and Water Heating Equipment *continued***

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| --- | --- | --- | --- |
| **Equipment** | **Requirements** | | **Incentive** |
| Hydronic Heating Circulator Pumps | Pump motor must be a single speed or variable speed Electronically Communicated Motor (ECM). Limited to in-line circulators with horizontal motors. Site must receive electricity from a participating utility. Applicable to multiple pump motors configured in parallel. | Single Speed ECM: more than 3/4 HP - 2.5 HP or less | $200 per pump |
| Single Speed ECM: more than 2.5 HP | $300 per pump |
| Variable Speed ECM: more than 1/2 HP - 2.5 HP or less | $300 per pump |
| Variable Speed ECM: more than 2.5 HP | $750 per pump |
| Commercial  Ductless Heat Pump - New or  Replacement | May replace any existing heating equipment that is non-functional or near the end of its useful life (typically 15 years or older). In these cases, existing equipment may use any fuel (including but not limited to natural gas, electric, propane or biomass).Projects where existing equipment is functional, and not at the end of its useful life, do not qualify for an incentive. Eligible spaces are limited to office, retail, and restaurants; total conditioned space must be less than 10,000 square feet. Spaces previously not heated or newly added spaces in an existing building are eligible. Conditioned space served may be part of a larger building, but the space served must also be enclosed and not open to other conditioned spaces. Product efficiency ratings for equipment must be AHRI rated with SEER2 at least 20 and HSPF2 of at least 9.5. | | $300 per ton |
| Commercial Heat Pump Water Heater (HPWH) | Tank size must be between 40 to 120 gallons. HPWH meets minimum efficiency specifications outlined in the [NEEA Advanced Water Heater Specification Version 7.0\*](https://neea.org/img/documents/Advanced-Water-Heating-Specification.pdf), [NEEA qualified product list\*\*](https://neea.org/img/documents/residential-HPWH-qualified-products-list.pdf). Must be installed according to manufacturer's recommendations. Must have a back-up resistance heating element. Water heating must be provided by a participating utility. | Ducted HPWH | $800 each |
| Non-ducted HPWH | $800 each |
| Garage Exhaust Ventilation Controls | Installed in fully enclosed parking garage. Variable speed control installed on the parking garage exhaust fan(s) and contamination-sensing device (CO sensors with NO2 sensors) employed. Parking garage operating hours must be at least 140 hours per week. | Spaces less than 30,000 sq. ft., and unconditioned | $0.50 per CFM |
| Spaces at least 30,000 sq. ft. OR conditioned | $0.10 per CFM |
| Forced Circulation Generator Block Heater | Generator must be stationary and fixed. The heater must use forced circulation and be installed by manufacturer-certified installer. Site must receive electricity from a participating utility. For retrofit projects (upgrades), the heater must replace a thermosiphon block heater and must be at least 2.5 kilowatts (kW). | End-of-life Replacement or New Applications 0 – 3.0 kW | $400 per heater |
| End-of-life Replacement or New Applications 3.1 - 9.0 kW | $1,400 per heater |
| 2.5-3.0 kW, retrofit (upgrading existing, functional) heater | $400 per heater |
| 3.1-9.0 kW, retrofit (upgrading existing, functional) heater | $1,400 per heater |

\* NEEA Advanced Water Heater Specification Version 7.0: <https://neea.org/img/documents/Advanced-Water-Heating-Specification.pdf>

\*\* NEEA qualified product list <https://neea.org/img/documents/residential-HPWH-qualified-products-list.pdf>

**HVAC and Water Heating Equipment *continued***

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| **Equipment** | **Requirements** | | | **Incentive** |
| Commercial Pump Variable Frequency Drive (VFD) - New Pump | Variable Frequency Drive (VFD) must be installed on a commercial pump with nominal motor power up to 20 horsepower (hp). Eligible applications include cooling (includes cooling tower), heating and pressure boost. Replacements due to burn out qualify. Irrigation applications do not qualify (see Irrigation Pump VFD measure). | | |  |
| Cooling and Heating applications only | 0.50 to 0.75 hp | | $200 per installed VFD |
| 0.76 to 1.25 hp | | $250 per installed VFD |
| All eligible pump applications | 1.26 to 1.75 hp | | $300 per installed VFD |
| 1.76 to 2.5 hp | | $350 per installed VFD |
| 2.51 to 3.5 hp | | $400 per installed VFD |
| 3.51 to 4.5 hp | | $500 per installed VFD |
| 4.51 to 6.0 hp | | $550 per installed VFD |
| Heating, Pressure Boost and Cooling Tower applications only | 6.01 to 8.0 hp | | $700 per installed VFD |
| Pressure Boost or Cooling Tower applications only | 8.01 to 12.5 hp | | $800 per installed VFD |
| 12.51 to 17.5 hp | | $950 per installed VFD |
| 17.51 to 22.5 hp | | $1,100 per installed VFD |
| Irrigation Pump Variable Frequency Drive (VFD) | Irrigation pumps must be between 2 to 25 horsepower (hp). System must not be equipped with a pressure tank. Retrofit projects (upgrades) must not include an existing Variable Frequency Drive (VFD). Replacements due to failed pumps or pump motors are eligible as new construction. | | |  |
| Retrofit Pump VFD (Upgrading existing, functional equipment) | | 2.0 to 4.9 hp | $1,000 per installed VFD |
| 5.0 to 7.49 hp | $2,000 per installed VFD |
| 7.5 to 9.9 hp | $3,000 per installed VFD |
| 10.0 to 14.9 hp | $3,500 per installed VFD |
| 15.0 to 19.9 hp | $4,500 per installed VFD |
| 20.0 to 24.9 hp | $5,000 per installed VFD |
| 25.0 hp | $6,000 per installed VFD |
| New Construction Pump VFD | | 2.0 to 4.9 hp | $750 per installed VFD |
| 5.0 to 7.49 hp | $1,250 per installed VFD |
| 7.5 to 9.9 hp | $1,750 per installed VFD |
| 10.0 to 14.9 hp | $2,250 per installed VFD |
| 15.0 to 19.9 hp | $2,750 per installed VFD |
| 20.0 to 24.9 hp | $3,250 per installed VFD |
| 25.0 hp | $3,750 per installed VFD |
| Server/Telecom Room – Mini-Split Air Conditioning | Cooling efficiency rated SEER 18 or SEER2 18 or greater. Cooling capacity no greater than 4.5 tons per unit (1 ton = 12 kBtu/h). Unit must serve a space exclusively used for servers, communications and other data equipment. Maximum of 2 units per space. | | Server Closet Mini-Split Air Conditioner | $250 per ton of cooling capacity |
| Server Closet Mini-Split Heat Pump | $250 per ton of cooling capacity |

**HVAC and Water Heating Equipment *continued***

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| **Equipment** | **Requirements** | **Incentive** |
| Commercial Smart Thermostats | Each thermostat must control a single-zone HVAC system with dedicated supply fan. Lodging sites, spaces with 24/7 operation, and semi-conditioned spaces do not qualify. Multiple HVAC systems serving a large open space (retail, grocery, etc.) are eligible if each system has a dedicated controlling thermostat. A list of qualifying thermostats can be found at: [https://www.bpa.gov/-/media/Aep/energy-efficiency/document-library/connected-thermostat-qualified-products-list.pdf.](https://www.bpa.gov/-/media/Aep/energy-efficiency/document-library/connected-thermostat-qualified-products-list.pdf) Self installed thermostats may be subject to a post-install verification review before payment.  Confirm that all the following Installation requirements are met: If two or more HVAC systems serve the same open space, temperature setpoints, schedules and dead-bands must match. Temperature setback in heating mode must be at least 10°F below the occupied heating setpoint. Temperature setback in cooling mode must be at least 5°F above the occupied cooling setpoint. Fan schedule set to ‘auto’ mode during unoccupied hours. Manual setpoint override must be limited to two hours or less. Heat pump with backup resistance heat must enable lock-out with appropriate temperature set-points. If a site has existing heating systems with demand-controlled ventilation or advanced rooftop controls, thermostat installers must not disable these systems. | $500 each at grocery sites |
| $400 each at non-grocery sites |

**Service Shop and Warehouse Equipment**

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| **Equipment** | **Requirements** | **Incentive** |
| Inverter-Driven Welder | Replacing existing functioning transformer driven welders. Run time of at least 2,000 hours/year (including standby time). Maximum of 25 welders replaced or purchased per site (if 26 welders or more in a single project, please contact Energy Trust). Rated to at least 210 Amps and at least 40% duty cycle. Welders for residential/hobbyist use are not eligible. | $2,400 each |
| Forklift Battery Charger | High-frequency charger must have a conversion efficiency of at least 89%. Maximum of 50 chargers replaced per site.  Charger(s) must be 24V to 48V designed for a pallet jack or forklift battery. Each charger replaces at least one existing SCR or ferroresonant charger. | $3,000 each |
| Steam Trap – Dry Cleaners | Must replace steam trap(s). Existing equipment may be operating or failed. Steam traps repairs are not eligible. Must be installed on a gas-fired steam boiler system served by participating gas utility. Dry cleaner systems must have 75 to 125 psig. Dry cleaner properties must provide details of last steam trap replacement and previous incentives received for steam trap replacement. **For other commercial uses, see HVAC and Water Heating.** | $350 each |

**Solar *– Must be installed by an Energy Trust Solar Trade Ally***

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| **Equipment** | **Requirements** |
| Solar Electric | Visit [www.energytrust.org/solar](http://www.energytrust.org/solar) for details, or to discuss incentive opportunities with an Energy Trust Solar Trade Ally |

**Custom Incentives May Be Available**

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| Energy-efficient equipment not listed may still be eligible for custom incentives. To learn more about these and other incentives, call the Existing Buildings Program at 1.877.510.2130, email [existingbuildings@energytrust.org](mailto:existingbuildings@energytrust.org) or visit our website at <https://www.energytrust.org/incentives/existing-buildings-custom-incentives/> . |