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### **Commercial Rebate - Upgrade Eligibility List**

*Commercial businesses locations in the Roaring Fork Valley are eligible for \$2,500 per project, up to 25% of project costs. Businesses may only receive one rebate per project heating type as listed below, per calendar year. Final invoices must be within 180 days of rebate application date. Incentives only for replacing existing equipment that does not meet qualifying standards.*

#### **Overview**

(additional details found on page 3)

#### **Lighting**

*\*\* All Lighting Fixtures and Lamps must be certified by either Energy Star, Design Lights Consortium or Lighting Facts \*\**

- LED lamps (including LED tubes and other florescent or CFL replacements)
- LED fixtures
- LED Exit signs
- De-lamping
- Reflector Kits
- Occupancy and photo sensors
- Solar Tubes

#### **Electric Vehicle Charging**

- Level II or Level III EV Charging station

#### **HVAC**

- Air source heat pump – Cold climate rated and used for space heating
- Boilers --  $\geq 92\%$  AFUE
- Air Side Economizers for all roof top units (RTUs)
- Split Systems --  $<5.4$  tons,  $\geq 14$  SEER
- Gas Furnace  $\geq 92\%$  AFUE
- Hot Water – Natural Gas Tankless, EF  $\geq 0.82$
- Hot Water – Hybrid Heat Pump, must be ENERGY STAR
- Hot Water – Side-Arm w/ heat exchanger (replacing typical storage type),  $\geq R-20+$  tank with  $\geq 92\%$  AFUE source
- Duct Sealing/Insulation – Mastic only, R-6
- Pipe Wrap – Distribution lines (Hot and cold), unconditioned areas only
- Water or Ground Source Heat Pump
- Rooftop AC –  $<5.4$  ton,  $\geq 14.0$  SEER – Tier 1
- Rooftop AC – 5.5 – 19.9 ton,  $\geq 11.5$  SEER – Tier 1



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- Re-Commissioning (Retro) of HVAC Systems
  - Heat and Energy Recovery Ventilators (HRVs and ERVs)

### **Advanced Evaporative Cooling**

- Indirect or Hybrid Advance Evap. Cooler

### **Compressed Air**

- VFD Compressors
- No Loss Air Drain

### **Building Envelope**

- Air Sealing Measures – Blower Door Test In/Test Out Required
- Insulation (Minimum 2015 IECC prescribed levels)

### **Food Service Equipment**

- Energy Star High Efficiency Ice Machines
- Energy Star Dishwashers
- Energy Star Commercial Refrigerators
- Energy Star Commercial Freezers
- Energy Star Insulated Hot Food Cabinets –  $\geq 7$ cu. ft.
- Energy Star Steamers
- Energy Star Fryers
- Energy Star Gas Griddles
- Energy Star Gas Convection Ovens
- Energy Star Electric Griddles –  $\geq 70\%$  HL Eff.
- Energy Star Electric Ovens –  $\geq 70\%$  HL Eff.
- Properly Balanced Hood

### **Grocery**

- Reach-In or Walk-In Refrigerator or Freezer – Door Gaskets, Glass Door
- Reach-In or Walk-In Refrigerator or Freezer – Door Gaskets, Solid Door
- High-Efficiency Open Display Case – lf. of case
- High-Efficiency Reach-In Display Case – lf. of case
- Walk-In Coolers or Refrigerated Warehouse Spaces – Strip Curtains, sf. of doorway
- Walk-In Coolers or Refrigerated Warehouse Spaces – E-Cube
- Auto-Closers – Main Walk-In Door
- Auto-Closers – Reach-In Door

### **Office Equipment**



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- Server Consolidation by Virtualization
  - Energy Star Enterprise Server
  - Energy Star Vending Machine with Software

#### **Motors**

- All NEMA Premium Motors
- VFD Fans/Pumps

#### **Other**

- Plug Load Occupancy Sensors
- Shaded Pole Motor Retrofit with EC Motor (Refrigeration)
- Network Computer Power Management Software

#### **Renewable Energy**

- Photovoltaics/Solar Thermal
- Evacuated Tube
- Micro Hydro

### **Eligibility Details:**

#### **Lighting**

- LEDs lamps
  - LED lamps must be Energy Star Qualified
  - All other LED fixtures and lighting must be either Energy Star Qualified or Design Lights Consortium Qualified
- LED fixtures:
  - Must be commercially rated
  - Parking garage or parking lots – must reduce total lighting energy use to 0.18 watts per square foot
- De-lamping:
  - Rebates are based on the permanent removal of the equivalent of at least one 4' (T12, T12HO or T8) lamp from an existing 8' or 4' fixture as a result of a retrofit
- Reflector Kits:
  - Reflector kits must be installed in conjunction with de-lamping or installation of lower wattage lamps (e.g., 32 Watt lamps to 28 Watt lamps)



- Reflector must have a reflectivity value equal to or greater than 90% and match the number of new fluorescent lamps
- Occupancy and photo sensors:
  - Proper design and installation of occupancy sensors and/or controls that reduce on-time, such as daylighting controls or timers. Must be hard-wired to qualify
- Solar Tubes:
  - Must be installed in areas occupied during business hours, or central hallways requiring artificial lighting
  - Other daylighting retrofits may be considered for incentives

## HVAC

- Air source heat pump
  - Must be cold climate rated
  - Must be ENERGY STAR certified - [Energy Star Product Finder](#)
  - Must be used to provide space heating and not cooling only
- Hot Water Boilers (condensing, for space heating and domestic water only):
  - Rebates will be offered for new equipment only
  - Must be a replacement of currently operating equipment with an efficiency gain of >15%
  - Boilers must meet minimum efficiency of 92% AFUE
  - Back-up equipment not eligible for rebates
  - Customer must provide CO State inspection report with application
- Air-side Economizers:
  - Economizer shall provide first stage cooling
  - Mechanical cooling will start at second stage
  - Economizer control shall include an outside air temperature sensor
  - Any size air-handling unit will qualify
- Water or Ground Source Heat Pump:
  - Installer must be IGSPHA certified, closed loop only
- Roof Top AC Units:
  - Rebates will be offered for new equipment only
  - Replacement of currently operating equipment
  - New equipment must be currently rated at AHRI standards. For a list of qualified equipment see: <http://www.ahridirectory.org/ahridirectory/pages/home.aspx>
  - Equipment must be less than 19.9 tons
  - Equipment less than 5.4 tons must be minimum 14 SEER
  - Equipment between 5.5 and 19.9 tons must be minimum 11.5 SEER



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- Equipment must use a minimum ozone-depleting refrigerant such as R-22, R-123, and R-134
  - Refer to Consortium of Energy Efficiency for listing of Tier 1 and Tier 2 equipment (<http://www.cee1.org/com/hecac/hecac-tiers.pdf>)
  - Split Systems:
    - Rebates will be offered for new equipment only
    - Replacement of currently operating equipment
    - New equipment must be currently rated at AHRI standards. For a list of qualified equipment see: <http://www.ahridirectory.org/ahridirectory/pages/home.aspx>
    - Equipment must be less than 5.4 tons and must be minimum 14 SEER
    - Condensing unit and coil must both be newly installed to receive a rebate. Efficiencies will be based on the condensing unit and coil combination rated by AHRI.
    - Equipment must use a minimum ozone-depleting refrigerant such as R-22, R-123, and R-134
  - Furnace:
    - Rebates will be offered for new equipment only
    - Replacement of currently operating equipment
    - Furnaces must meet minimum efficiency of 92% AFUE with an efficiency gain of > 15%
  - Ground or Water Source Heat Pump:
    - Must be installed by IGSHHP certified installer
  - Re-Commissioning:
    - Retro-Commissioning of commercial HVAC systems
  - Controls:
    - Proper design and installation of HVAC control technologies. Must be hard-wired to qualify

### **Advanced Evaporative Cooling**

- New cooling equipment make/model/size (tons)
- Existing cooling equipment replaced make/model/size (tons)/age/efficiency
- Equipment must be permanently installed
- Equipment must be indirect, hybrid, or two-stage evaporative cooling unit. Portable coolers or systems with vapor compression backup are not eligible
- A minimum Media Saturation Effectiveness of 85% is required
- Units must be installed with a remote thermostat and a periodic purge water control
- Facility type (same as round 1 lighting list)



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### **VFD Air Compressors**

- Equipment must be a new, rotatory type compressor with factory installed VFDs (piston or reciprocating compressors do not qualify)
  - Existing compressor must be a non-reciprocating load/ unload compressor with less than two gallon of storage per cfm of compressor-rated capacity, or modulation with or without unload
  - Back-up equipment not eligible for rebates
- No Loss Air Drains
- Compressor must be one of the following:
  - Load/no-Load with at least 5 gal/CFM of storage
  - Variable Speed Drive compressor
  - Variable Displacement/Capacity compressor
  - Centrifugal compressors in their efficient trim range without any blow-off to atmosphere
  - Drains on inlet modulation or load/no load systems with < 2 gal/CFM storage are not eligible
- Motor and VFDs:
  - Rebates will be offered for new equipment only
  - Motor replacement of currently operating equipment
  - Back-up equipment not eligible for rebates
  - Rebates are eligible for pump or fan applications, including pools and spas
  - Customers must scrap the previous motor themselves or have it scrapped by their installer. By signing the application, customers are acknowledging that the motor has been scrapped
  - Motor replacements - efficiency must match the NEMA Premium Efficiency criteria

### **Building Envelope**

- Air Sealing Measures:
  - Blower door required, must demonstrate 10% reduction in ACHn
- Insulation:
  - Must meet or exceed IECC 2015 Commercial requirements

### **Food Service Measures**

- Energy Star Commercial Ice Machines:
  - Equipment must currently be Energy Star qualified
  - Equipment must be new and not refurbished



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- For a list of qualified equipment, see:  
[http://www.energystar.gov/ia/products/prod\\_lists/ice\\_machines\\_prod\\_list.xls](http://www.energystar.gov/ia/products/prod_lists/ice_machines_prod_list.xls)For general information on Energy Star Commercial Ice Machines, see:  
[http://www.energystar.gov/index.cfm?fuseaction=find\\_a\\_product.showProductGroup&pgw\\_code=CIM](http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=CIM)
  - Energy Star Commercial Dishwashers:
    - Equipment must currently be Energy Star qualified
    - Equipment must be new and not refurbished
    - For a list of qualified equipment, see:  
[http://www.energystar.gov/ia/products/prod\\_lists/comm\\_dishwashers\\_prod\\_list.xls](http://www.energystar.gov/ia/products/prod_lists/comm_dishwashers_prod_list.xls)
    - For general information on Energy Star Commercial Dishwashers, see:  
[http://www.energystar.gov/index.cfm?fuseaction=find\\_a\\_product.showProductGroup&pgw\\_code=COH](http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=COH)
  - Energy Star Commercial Refrigerators and Freezers:
    - Equipment must currently be Energy Star qualified
    - Equipment must be new and not refurbished
    - For a list of qualified equipment, see:  
[http://downloads.energystar.gov/bi/qplist/commer\\_refrig\\_prod\\_list.xls](http://downloads.energystar.gov/bi/qplist/commer_refrig_prod_list.xls)
    - For general information on Energy Star Commercial Refrigerators and Freezers, see:  
[http://www.energystar.gov/index.cfm?fuseaction=find\\_a\\_product.showProductGroup&pgw\\_code=CRF](http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=CRF)
  - Energy Star Commercial Insulated Hot Food Holding Cabinets:
    - Equipment must currently be Energy Star qualified
    - Equipment must be new and not refurbished
    - For a list of qualified equipment, see:  
[http://www.energystar.gov/ia/products/prod\\_lists/HFHC\\_prod\\_list.xls](http://www.energystar.gov/ia/products/prod_lists/HFHC_prod_list.xls)
    - For general information on Energy Star Commercial Insulated Hot Food Holding Cabinets, see:  
[http://www.energystar.gov/index.cfm?fuseaction=find\\_a\\_product.showProductGroup&pgw\\_code=COM](http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=COM)
  - Energy Star Commercial Steam Cookers:
    - Equipment must currently be Energy Star qualified
    - Equipment must be new and not refurbished
    - For a list of qualified equipment, see:  
[http://www.energystar.gov/ia/products/prod\\_lists/Steamers\\_prod\\_list.xls](http://www.energystar.gov/ia/products/prod_lists/Steamers_prod_list.xls)



- For general information on Energy Star Commercial Steam Cookers, see:  
[http://www.energystar.gov/index.cfm?fuseaction=find\\_a\\_product.showProductGroup&pgw\\_code=COC](http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=COC)
- Energy Star Commercial Fryers:
  - Equipment must currently be Energy Star qualified
  - Equipment must be new and not refurbished
  - For a list of qualified equipment, see:  
[http://www.energystar.gov/ia/products/prod\\_lists/Fryers\\_prod\\_list.xls](http://www.energystar.gov/ia/products/prod_lists/Fryers_prod_list.xls)
  - For general information on Energy Star Commercial Fryers, see:  
[http://www.energystar.gov/index.cfm?fuseaction=find\\_a\\_product.showProductGroup&pgw\\_code=COF](http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=COF)
- Energy Star Commercial Griddles:
  - Equipment must currently be Energy Star qualified
  - Equipment must be new and not refurbished
  - For a list of qualified equipment, see:  
[http://www.energystar.gov/ia/products/prod\\_lists/comm\\_griddles\\_prod\\_list.xls](http://www.energystar.gov/ia/products/prod_lists/comm_griddles_prod_list.xls)
  - For general information on Energy Star Commercial Griddles, see:  
[http://www.energystar.gov/index.cfm?fuseaction=find\\_a\\_product.showProductGroup&pgw\\_code=COG](http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=COG)
- Energy Star Commercial Convection Ovens:
  - Equipment must currently be Energy Star qualified
  - Equipment must be new and not refurbished
  - For a list of qualified equipment, see:  
[http://www.energystar.gov/ia/products/prod\\_lists/comm\\_ovens\\_prod\\_list.xls](http://www.energystar.gov/ia/products/prod_lists/comm_ovens_prod_list.xls)
  - For general information on Energy Star Commercial Ovens, see:  
[http://www.energystar.gov/index.cfm?fuseaction=find\\_a\\_product.showProductGroup&pgw\\_code=COO](http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=COO)
- Properly Balanced Hood, performed by qualified HVAC technician
  - Hood heat recovery systems may also qualify

### **Office Equipment Measures**

- Server Consolidation by Virtualization:
  - Rebate is per server removed from use due to consolidation
  - Must submit a copy of virtualization software agreement supplied by vendor and provide proof the consolidated servers have been removed and fully decommissioned
  - Virtualization services hosted off site are not eligible for an incentive
- Energy Star Enterprise Servers:
  - Equipment must currently be Energy Star qualified





- Equipment must be new and not refurbished
- For a list of qualified equipment – single configurations, see:  
[http://www.energystar.gov/ia/products/prod\\_lists/enterprise\\_servers\\_prod\\_list.xls](http://www.energystar.gov/ia/products/prod_lists/enterprise_servers_prod_list.xls)
- For a list of qualified equipment – families, see:  
[http://www.energystar.gov/ia/products/prod\\_lists/enterprise\\_servers\\_families\\_prod\\_list.xls](http://www.energystar.gov/ia/products/prod_lists/enterprise_servers_families_prod_list.xls)
- For general information on Energy Star Enterprise Servers, see:  
[http://www.energystar.gov/index.cfm?fuseaction=find\\_a\\_product.showProductGroup&pgw\\_code=DC](http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=DC)

### **Grocery Measures**

- Door gaskets for reach-in or walk-in refrigerators or freezers:
  - Must replace a worn or damaged gasket on one or more actively used door(s) of a reach-in or walk-in cooler or freezer
  - Replacement gaskets must meet the manufacturer’s installation specifications regarding dimensions, materials, attachment method, style, compression, and magnetism
  - Applicable to main insulated solid door(s) of walk-in cooler or freezer that open to ambient temperatures
  - Applicable to standard size reach-in glass or solid door(s) of a low or medium temperature display case
- Strip curtains for walk-in coolers or refrigerated warehouse spaces:
  - New strip curtain must be installed on doorways of refrigerated space (conditioned to less than 50° F)
  - Rebate is not available for replacement of existing strip curtains
  - Strip curtains on display cases are not eligible
- Low Temperature Coffin to New High Efficiency Reach-in:
  - New case length must be equal to 1/3 the original case length or less
  - Existing case must have shaded-pole fan motors
  - New case (or replacement equipment) must have:
    - T-8 lamps with electronic ballasts or LED lights
    - Electronically or solid state commutated fan motors (ECM/SSC)
    - Low/no anti-sweat glass double-pane or triple-pane doors meeting the requirements of the “Special Doors with Low/No Anti-Sweat Heat on Low Temperature Display Cases” measure
- Low Temperature Reach-in to New High Efficiency Reach-in:
  - New case length must be equal to or shorter than the original case
  - Existing case must have:



- T12 or T8 lamps
- Shaded-pole fan motors
- Standard glass doors (>0.37 amps of door heater current/linear ft. of door)
- New case (or replacement equipment) must have:
  - LED lights
  - Electronically or solid state commutated fan motors (ECM/SSC)
  - Low/no anti-sweat glass double-pane or triple-pane doors meeting the requirements of the "Special Doors with Low/No Anti-Sweat Heat"
- Medium Temperature Open Case to High Efficiency Open Case:
  - Must replace existing T-12 lamps, magnetic ballasts and shaded-pole motors with new high-efficiency ECM fan motor(s), T-8 lamps, and electronic ballasts
  - Cases must be equipped with high efficiency evaporators that meet appropriate saturated evaporation temperature (SET) conditions
  - Must raise suction temperature set point on the suction group of the replaced case(s) by at least 3°F
- Auto-closers for main walk-in or reach-in doors:
  - Must be applied to one or more actively used insulated door(s) of a walk-in cooler or freezer or one or more actively used glass door(s) of a reach-in cooler or freezer
  - Must be able to firmly close door when door is within one or more inch of full closure
  - The minimum walk-in door perimeter to qualify for rebate is 16 feet. New installations or repairs that include replacement of hard parts qualify
  - Adjustment of existing auto-closers does not qualify for rebates

### Other

- Plug Load Occupancy Sensors:
  - Plug load occupancy sensors may be either passive infrared or ultrasonic
  - Plug load occupancy sensors must be connected to at least 50 Watts of power quality
  - Products with adjustable time delays and low power demand are recommended
  - Equipment connected to this device should not be sensitive to on/off operation. Powering computers off through this device may result in data loss
- Evaporator Fan EC Motor (Also referred to as ECM Motor):
  - Must be installed in a refrigeration application
  - Motor speed shall be adjusted for the required airflow rate for the specific application during installation



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- May also include upgraded fan blades (such as Q-blade)