

## Commercial Rebate - Upgrade Eligibility List

Commercial businesses locations in the RFV eligible for \$2,500 per calendar year, up to 25% of project costs, for any of the efficiency upgrades listed here. (Additional incentives may be applied for additional utility accounts.) Final invoices must be within 180 days of rebate application date.

### Overview

(see page 3 for eligibility details)

#### 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

#### HVAC

- 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 – Tank-less, EF  $\geq 0.82$
- Hot Water – Gas Storage, EF  $\geq 0.8$
- Hot Water – Electric Storage (Heat Pump) EF  $\geq 0.92$
- 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
- Re-Commissioning (Retro) of HVAC Systems
- Efficiency Controls, i.e. Outside temp reset
- 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
- Energy Efficient Windows (U-factor not to exceed 0.28 or applicable component measure per 2015 IECC)
- 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 – ≥ 7cu. ft.
- Energy Star Steamers
- Energy Star Fryers
- Energy Star Gas Griddles
- Energy Star Gas Convection Ovens
- Energy Star Electric Griddles – ≥ 70% HL Eff.
- Energy Star Electric Ovens – ≥ 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**

- 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 (separate and alternative rebate structure)
  - See CORE's renewable energy rebates here:
    - <http://aspencore.org/energy-improvements/go-solar/>
- 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, Lighting Facts 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

- 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
  - 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 IGSHSP 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)

#### **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
- Energy Efficient Windows:
  - Re-glazing or replacement units must comply with IECC 2015 Commercial requirements
  - All windows adjacent to conditioned area must be replaced
- 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
  - 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=CO C](http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=CO C)
- 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=CO F](http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=CO F)
- 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=CO G](http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=CO G)
- 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=CO O](http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=CO O)
- 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
  - May also include upgraded fan blades (such as Q-blade)
- Network Computer Power Management Software:
  - Network power management software for desktop computers connected to the company network by a server qualifies
  - The software shall be capable of managing power consumption for individual PC's