

# 2026 Application Specifications General Measures

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Applying to participate in the Solutions for Business program does not guarantee any specific rebate payment. Payment of rebate funds is contingent upon funding availability and continued approval of this program by the ACC. Program funds are available for completed Final Applications submitted and reviewed during the current program year on a first-come, first-serve basis.

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## QUESTIONS

If you have program or application questions, call (866) 277-5605 or (602) 385-0900 or email [aps.solutionsforbusiness@dnv.com](mailto:aps.solutionsforbusiness@dnv.com).

## ADDITIONAL RESOURCES

[aps.com](http://aps.com)  
[energystar.gov](http://energystar.gov)  
[cee1.org](http://cee1.org)  
[ahridirectory.org](http://ahridirectory.org)  
[designlights.org/QPL](http://designlights.org/QPL)

# Lighting Equipment

## General LED lighting requirements:

- A manufacturer's specification sheet for each LED lamp/LED fixture/LED component shall accompany every application.
- A room-by-room survey may be requested for complex lighting projects.
- Invoice/purchasing documentation shall reflect manufacturer, model number and quantity of each lamp/fixture/component.
- Removed polychlorinated biphenyl (PCB) ballasts and all lamps must be disposed of properly. Documentation of disposal may be requested by program staff.
- Lighting projects should comply with the Illuminating Engineering Society of North America (IESNA) recommended lighting levels and local code.

## Option A

**Integral lamp or fixture must appear on one of the following lists. If not, reference Option B:**

- ENERGY STAR® Qualified Products List  
[energystar.gov/productfinder/?s=mega](http://energystar.gov/productfinder/?s=mega)
- DesignLights Consortium Qualified Products List  
[designlights.org/QPL](http://designlights.org/QPL)
- Consortium for Energy Efficiency (CEE) Tier II (two) listed  
[cee1.org/program-resources#comm](http://cee1.org/program-resources#comm)

## Option B

LEDs that do not appear on the Qualified Products list of either ENERGY STAR, DesignLights Consortium, or CEE will be evaluated using the minimum performance criteria in the appropriate product category from either ENERGY STAR, DesignLights Consortium, or CEE for the following variables:

- Light output in lumens
- Luminaire efficacy (lm/W)
- Manufacturer's warranty (years)
- Color rendering index (CRI)
- Correlated color temperature (CCT)
- LED lumen maintenance at 6,000 hours
- Manufacturer's estimated lifetime for L70 (70% lumen maintenance at end of useful life)

*Please contact a representative from the Solutions for Business team for assistance in determining if an LED product complies with Option B.*

## DELAMPING

**Measure: Reduce the number of linear lamps per fixture by permanently removing existing fluorescent lamps and lamp holders.**

- Contractors/vendors/customers are responsible to ensure IES lighting levels are maintained after retrofit.
- Delamping must be completed in conjunction with linear LED retrofit (delamp-only projects are not eligible for rebates).
- Unused tombstones must be removed from the fixture to prevent lamp reinstallation.
- Room-by-room survey and pre-inspection may be requested for delamping projects.

## INDOOR FLAT PANEL LED FIXTURES

**Measure: Replace linear fluorescent fixtures with flat panel LED fixtures.**

- Replacements are on a one-for-one basis.
- Eligible fixtures shall have a length of 2-foot through 4-foot
- LED fixtures with selectable wattage shall be based on the average of the wattages to determine rebate category (< 30 W, ≥ 30 to < 40 W, ≥ 40 W).
- Fixtures shall meet APS Solutions for Business General LED lighting requirements.
- Additional rebates are available for installing smart panels, or installing an advanced control system that is demand response capable.

## INDOOR SMART FLAT PANEL LED FIXTURES

**Measure: Replace linear fluorescent fixtures with smart flat panel LED fixtures.**

- Replacements are on a one-for-one basis.
- Eligible fixtures shall have a length of 2-foot through 4-foot.
- LED fixtures with selectable wattage shall be based on the average of the wattages to determine rebate category (< 30 W, ≥ 30 to < 40 W, ≥ 40 W).
- Smart fixtures must have communication (wired or wireless (not using Wi-Fi)) components installed.
- Fixtures shall meet APS Solutions for Business General LED lighting requirements.

## INDOOR HID TO LED FIXTURES

**Measure: Replace interior High Intensity Discharge (HID) fixtures with LED fixtures.**

- Replacements are on a one-for-one basis.
- HID fixtures may be low pressure sodium (LPS), high pressure sodium (HPS), metal halide (MH), mercury vapor (MV).
- LED fixtures with selectable wattage shall be based on the average of the wattages to determine rebate category (≤100, >100 & <200, ≥200).
- Non-mechanically cooled areas such as interior stairwells, parking garages and warehouses are eligible for this measure.
- Fixtures shall meet APS Solutions for Business General LED lighting requirements.

## LINEAR LED LAMPS

**Measure: Replace 2, 3, 4 & 8-foot T12, T8 or T5 lamps with linear LED lamps (See General LED Lighting Requirements).**

- Replace linear fluorescent lamps on a one-for-one basis.

- Compatibility between the LED lamp and electronic ballast shall be verified by the contractor.
- Components shall be UL or ETL certified.
- Rebates are paid on a per lamp basis.

*Ballast replacement/LED driver consideration should be given to ballasts that are more than 6 years old.*

Acceptable replacement product types are:

- Lamps Only (“Plug and Play”) (UL Type A)
- Internal Driver/Line Voltage Lamp (UL Type B)
- New External Driver (ballast) and Lamp (UL Type C)

Safety recommendations:

- UL Type B and UL Type C products must be delivered as part of a UL 1598C Classified Luminaire Retrofit Kit with instructions explaining the LED tube must be installed on a luminaire that is already UL listed.
- The retrofitted luminaire must be clearly identified using the label included with the retrofit kit indicating the luminaire has been modified and can no longer operate the originally intended lamp(s).

## OUTDOOR LED FIXTURES

**Measure: Replace or retrofit non-LED outdoor fixtures with qualified LED products on a one-for-one basis (See General LED Lighting Requirements).**

- Rebates are paid based on the installed LED input wattage.
- The installing contractor is responsible to comply with any applicable “Dark Sky Ordinance” or local outdoor light codes or ordinance.

# Energy Management System (EMS)

A pre-application is required for this measure.

SYSTEM BEING REPLACED	TIER 1 REBATE \$/S.F.	TIER 2 REBATE \$/S.F.
Non-programmable thermostats	\$0.20	\$0.30
Pneumatic thermostats	\$0.20	\$0.30
Digital EMS system	\$0.10	\$0.20
Programmable thermostats	\$0.10	\$0.20
Integrated lighting control		\$0.10

## General requirements:

- Buildings and spaces within buildings that are not mechanically cooled are not eligible under this section.
- EMS controls for electric resistance heating-only systems may be submitted using the custom application.
- Buildings and spaces that are continuously occupied are only eligible for the Tier 2 rebate.
- Pre- and post-inspections may be required to verify and document stated conditions.
- EMS controllers must be able to address HVAC system requirements for multiple zones and will provide multiple control functions autonomously without access to internet or cloud services. Controllers only capable of addressing a single zone or networked thermostats are not eligible for an EMS rebate but may be eligible for a Smart or Programmable Thermostat rebate.

## Measure: Install EMS to optimize system operation.

- Replace existing electric (non-programmable) or pneumatic thermostats.
  - Tier 1 rebate of \$0.20 per square foot of controlled and conditioned space.
  - Meeting Tier 2 specification requirements qualifies for \$0.30 per square foot of controlled and conditioned space.
- Replace existing programmable thermostats or digital EMS system.
  - Tier 1 rebate of \$0.10 per square foot of controlled and conditioned space.
  - Meeting Tier 2 specification requirements qualifies for \$0.20 per square foot of controlled and conditioned space.
- Overlay systems that monitor, manage or control existing EMS systems are not eligible for this rebate. This would include systems that deploy artificial intelligence (AI) or continuous commissioning systems.
- Software only updates/upgrades to existing EMS are not eligible for this rebate.

## Tier 1 EMS requirements:

- Central time control.
- Graphic operator interface.
- Trending capability.
- Web-based interface with on-site PC-based controls.
- Minimum setback temperature of at least 8°F in heating and cooling, setback period must exceed 2,200 hours/year.
- Holiday schedules must be entered for a minimum of one year. For premises with varying schedules (i.e., schools, seasonal occupancy), the occupancy schedules must be entered for a minimum of one year.
- Implement at least four enhanced control strategies.

### Tier 2 EMS requirements, All Tier 1 requirements plus:

- For DX and water-source heat pump (WSHP) systems, implement at least seven enhanced control strategies.
- For chilled water (CW) systems, implement at least 10 enhanced control strategies.
- For facilities with both DX and CW systems, all areas must implement at least 10 enhanced control strategies to meet Tier 2 rebate level.

### Required documentation:

- Documentation supporting the conditioned space on the application. This information can typically be found on facility drawings or a spreadsheet indicating the space measurements.
- System points list that shows all components integrated to EMS.
- EMS manufacturer specifications.
- Sequence of operation clearly indicating:
  - Occupied, setback time periods and established temperatures
  - Occupied, unoccupied and holiday scheduling
  - On/off control of motors (as applicable)
  - EMS screenshots displaying system settings (temperature set points, schedules, programming logic, etc.) to document the Enhanced Control Strategies implemented from the list below:

- |   |   |
|---|---|
| 1. Chilled Water Temperature Reset                            | 12. Improved Outside Air Volume Control             |
| 2. Chiller Compressor Sequencing                              | 13. Limit OA During Morning Warm-Up/Cool Down Cycle |
| 3. Condenser Water Temperature Reset                          | 14. Night Ventilation Purge                         |
| 4. Cooling & Heating Lockout on Outside Air Temperature (OAT) | 15. Outside Air Damper Control                      |
| 5. Cooling Tower Fan Speed Control                            | 16. Optimal Start/Stop                              |
| 6. Cooling Tower Fan Staging                                  | 17. Secondary Chilled Water Loop Pressure           |
| 7. Dead Band Control for Heating and Cooling                  | 18. Static Pressure Reset                           |
| 8. Demand Control Ventilation                                 | 19. Summer/Winter Volume Change                     |
| 9. Distribution Pump Speed Control                            | 20. Supply Air Temperature Reset                    |
| 10. Distribution Pump Sequencing                              | 21. Unoccupied Temperature Setback                  |
| 11. Occupancy Sensor Integration                              | 22. Zone-by-Zone Scheduling                         |

## LIGHTING ENERGY MANAGEMENT SYSTEM (LEMS)

### Measure: Install lighting energy management system (LEMS).

*A pre-application is required for this measure.*

Must be installed in conjunction with an approved integrated HVAC EMS project.

- Rebate of \$0.10 per square foot of illuminated and controlled interior space. The LEMS may be a freestanding lighting controller or integrated with a HVAC control system.

### Required documentation:

Documentation supporting the square feet of the controlled space. This information can typically be found on facility drawings. If only specific areas are being controlled, please provide a spreadsheet indicating the space measurements.

- System points list.
- Sequence of operation clearly indicating the on/off times.
- Areas that are illuminated 24/7/365 are not eligible for this rebate.
- Facilities that had LEMS installed previously do not qualify.

**Pre- and post-inspections may be required to verify stated conditions.**

- Confirmation of the programming functionality may be requested.

# Control Measures

## COMPUTER POWER MANAGEMENT SOFTWARE

**Measure: Install software to allow computers to be put into low-power settings during appropriate hours.**

- The software installed must automatically control the power settings of networked personal computers at the server level.
- Software must be capable of managing power consumption for each individual PC and must be capable of reporting energy savings results.
- A report directly from the network energy management software that verifies the number of PCs controlled by the system must be supplied. Report must include an individual identifier for each computer.
- Individual computers are eligible for one rebate once every six years. If the software license is transferred to a new computer, the six-year period transfers with the license.
- A schedule identifying the computers by ID number or serial number must accompany the final application.

## CARBON DIOXIDE (CO<sub>2</sub>) SENSORS

**Measure: Utilize demand-controlled ventilation by installing CO<sub>2</sub> sensors to reduce the conditioning of outside air.**

- CO<sub>2</sub> sensors must control the ventilation system. Sensors used solely for data acquisition purposes are not eligible.
- Carbon dioxide sensor must be installed in conjunction with a controls-governed outside air damper.
- Excludes outside air CO<sub>2</sub> reference sensor.
- Outside Air Economizer rebates may be available separately.
- Sensors added as part of ARC measure are not eligible for this rebate.

## DEMAND RESPONSE LIGHTING CONTROLS

**Measure: Install a control system to reduce lighting load based on demand response events.**

The following applies for lighting controls:

- Communication entry point.
- Programmed to incrementally reduce lighting load to minimize occupant observation.
- Includes devices to provide communication (wired or wireless {not using Wi-Fi}) to the smart LED fixtures and control interface.
- Additional rebates may be available for smart LED fixtures.
- Rebate is per square foot of area illuminated by LED fixtures connected to the control system.

## HOTEL ROOM OCCUPANCY CONTROLS

**Measure: Install devices to automatically setback room temperature when the room is unoccupied.**

- Acceptable technologies include passive and/or dual technology room occupancy sensors and room keycard activation. Room technologies may be incorporated into a front desk arrival system.
- Rebate is paid per rentable guest room.

## PROGRAMMABLE THERMOSTATS

**Measure: Replace an existing non-programmable thermostat with a programmable thermostat.**

- Thermostat must be capable of 7-day, 5-2 or 5-1-1 programming.
- Minimum setback temperature of 8°F shall be programmed for heating and cooling.

*A manufacturer's specification sheet must accompany the application.*

## SMART THERMOSTATS

**Measure: Replace an existing non-programmable thermostat with a Wi-Fi accessible smart thermostat.**

- Select eligible thermostat from drop-down list in application (see [Cool Rewards FAQ](#) for list of qualifying thermostats).
- Replacements of energy management system (EMS) sensors are not eligible.
- Both occupancy and holiday schedules shall be programmed.
- Minimum setback temperature of 8°F shall be programmed for heating and cooling.
- Rebate is paid per installed thermostat.

## NETWORKED THERMOSTATS

**Measure: Replace an existing thermostat with a qualified networked thermostat.**

- Communication between devices may be hardwired or wireless and utilize Modbus, BACnet, wireless mesh or other approved communication protocol.
- Single zone thermostats are not eligible for a Networked Thermostat rebate but may be eligible for either Smart or Programmable Thermostat rebates.
- Wireless communication between devices shall not utilize customer Wi-Fi.
- Minimum setback period must exceed 2,200 hours per year.
- Minimum setback temperature of at least 8°F required in both heating and cooling.
- Holiday schedules must be entered for a minimum of one year. For premises with varying schedules (i.e., schools, seasonal occupancy), the occupancy schedules must be entered for a minimum of one year.
- Controllers for hotel rooms or rooms with similar occupancy patterns should be applied for under the Hotel Room Occupancy Controls rebate.
- Networked thermostats installed as part of ARC measure are not eligible for this rebate and should be applied for under the ARC Control System measure.

## OCCUPANCY SENSORS

**Measure: Install occupancy-based controls on lighting.**

- Passive infrared and/or ultrasonic detectors are eligible.
- Wall box and wall-, ceiling-, or fixture-mounted sensors must control interior lighting fixtures on/off.
- Rebate is per sensor.

# Miscellaneous

## THERMAL STORAGE – REFRIGERATED SPACE

*A pre-application is required for this measure.*

**Measure: Install or expand existing phase change thermal storage system to shift thermal load.**

- Rebate is based per ton of capacity.
- Additional rebates may be available for chillers and VSDs.

## HIGH FREQUENCY BATTERY CHARGER

**Measure: Install high frequency battery charger with load shifting capability.**

- Rebate is per charger.
- Minimum efficiency rating of  $\geq 92\%$ .
- Single or 3-phase chargers supporting a minimum 36-volt battery system.
- Must include the capacity to shift usage/limit usage during peak hours.
- Additional rebates may be available for non-road electric equipment.
- Chargers serving equipment that are currently offered as an electrification rebate are eligible.

## ULTRASONIC HUMIDIFICATION

**Measure: Replace existing functional steam generator or infrared humidification with ultrasonic humidification.**

- Provide photo documentation of existing equipment and nameplate(s).
- Rebate is paid base on the total connected kW reduction.

# Advanced Rooftop Controls (ARC)

## ADVANCE ROOFTOP CONTROL (ARC) PILOT PROGRAM

**This pilot program is available to:**

- Public, private and charter K-12 schools, with 25% allocation to Title I schools.
- Non-profit facilities which provide emergency services and house the needy and homeless.
- A pre-application is required to confirm Pilot program eligibility.

## ADVANCE ROOFTOP CONTROL (ARC)

**Measure: Retrofit of constant air volume/constant speed compressor rooftop units (RTUs) with a variable speed drive (VSD), outside air economizer and carbon dioxide (CO<sub>2</sub>) sensor that shall be controlled by an energy management system (EMS). To be eligible for the ARC rebate, a new VSD must be installed and all of the other components must be functional. RTUs with existing VSDs are not eligible for the ARC measure. New Construction RTUs, less than 5 tons, with all the required features are also eligible.**

- A pre-application is required to confirm Pilot program eligibility.
- The addition of outside air economizer with modulating dampers are eligible for an additional rebate.
- New energy management system (EMS) components, including network thermostats, are eligible for an additional rebate.
- Electronically commutated motors (ECMs) or variable refrigerant flow (VRF) systems are considered an eligible substitute for VSDs.
- Existing RTUs with variable speed components are not eligible.
- A supply air-temperature monitoring sensor must be installed, per the manufacturer's recommendation.

## OUTSIDE AIR ECONOMIZER

**Measure: Retrofit constant air volume dampers with modulating dampers. New RTUs, less than 5 tons, with modulating dampers and all of the required features of the ARC rebate are also eligible.**

- Control of the dampers shall include control functions of outside air economizer and carbon dioxide (CO<sub>2</sub>) sensor.
- This rebate is not available without the new ARC components.

## ARC CONTROL SYSTEMS

**Measure: Control components required to implement the functional control of the RTU ARC VSD, outside air economizer/modulating dampers including the input from a carbon dioxide (CO<sub>2</sub>) sensor.**

- New components may be integrated into networked thermostats or energy management system (EMS).
- This rebate is not available without the new ARC components.

# Variable Speed Drives

## EVAPORATOR FAN MOTOR

**Measure:** Replace standard-efficiency shaded-pole evaporator fan motor in refrigerated display cases or fan coil in walk-ins with electronically commutated motor (ECM) or permanent split-capacitor (PSC) motor.

## RETROFIT VARIABLE SPEED DRIVES

**Measure:** Install a VSD on existing motor to reduce energy use.

- Must permanently remove or disable any throttling devices such as inlet vanes, bypass dampers or throttling valves.
- VSDs replacing existing VSDs are only eligible for rebates if existing VSDs have been non-operational for at least six months.
- VSDs purchased for “soft start” only applications are not eligible for rebates.
- A 3% impedance choke is recommended to handle any power factor corrections that may occur. VSDs are sensitive to overvoltage.
- The VSD rebate is based on the lower value of the equipment horsepower or rated horsepower of the VSD.
- HVAC fan VSD not eligible.
- Rebate rate varies by equipment type (\$/HP) as shown in the table below:

MEASURE	REBATE	MEASURE	REBATE
Air compressor	\$70	Domestic water booster/well pump	\$50
Process	\$35	Other VSD	\$50
Waste water blower	\$70	Refrigerant compressor	\$50
Refrigeration fan	\$70	Pool pump	\$70
Other blower	\$70		

## POOL PUMP VARIABLE SPEED DRIVES

**Measure:** Install VSD on existing pump to reduce energy use.

- Pump drives shall be installed and programmed to meet the local commercial code requirements.
- Pump drives must operate a minimum of eight hours per day at a reduced speed.
- Maximum reduced speed operation shall not exceed 90% of motor nameplate RPM or 54 Hz.
- The VSD rebate is based on the lower value of the equipment horsepower or rated horsepower of the VSD.

# Refrigeration Equipment

## ANTI-SWEAT HEATER CONTROLS

**Measure:** Install device that senses the relative humidity in the air outside of the display case and reduces or turns off the glass door (if applicable) and frame anti-sweat heaters at low-humidity conditions.

- Technologies that turn off anti-sweat heaters based on sensing condensation (on the inner glass pane) also qualify.
- The rebate amount is based on the horizontal length of the case.

## AUTOMATIC DOOR CLOSER

**Measure:** Install a new device to automatically close the main insulated door of an existing walk-in cooler or freezer.

## HIGH-EFFICIENCY CONDENSERS

**Measure:** Install new or replace existing refrigeration condensers with higher-efficiency condensers.

- Replacement condenser shall meet or exceed required EER.  $EER = \text{total heat rejected (Btu/hr)} / \text{full-load fan energy (watts)}$ .
- Air cooled condenser —  $EER \geq 105 \text{ Btu/hr/watt}$ . Temperature differential (TD) between the saturated condensing temperature (SCT) and ambient design temperature must be:
  - 15°F or less for medium temperature (MT) applications.
  - 10°F or less for low temperature (LT) applications.
- Water evaporative condenser:  $EER \geq 240 \text{ Btu/hr/watt}$ . Tested at 100°F SCT at an ambient wet-bulb condition of 70°F.
- Fans must be either staged or controlled via VSDs. Rebates for new VSDs may be applied for separately.
- Manufacturer specifications showing ratings must be provided.

## HIGH-EFFICIENCY COMPRESSORS

**Measure:** Replace existing hermetically sealed compressor with a more efficient unit.

- The replacement compressor must not exceed 110% of the existing compressor capacity.
- The invoice must show both the replaced and new compressor model numbers.
- The new compressor must meet or exceed the following coefficient of performance (COP) efficiency for the equipment type listed in the table below:

EQUIPMENT TYPE	EFFICIENCY (COP)
Walk-in cooler	4.14
Walk-in freezer	1.2
Reach-in freezer	1.67
Food service equipment	2.15
Beverage merchandiser	2.15

## REACH-IN COOLER CONTROLS

**Measure:** Install controls with passive infrared occupancy sensor to turn off fluorescent lights and other refrigerated systems when the surrounding area is unoccupied for 15 minutes or longer.

- Presumes refrigerated unit contains only non-perishable bottled and canned beverages.
- Control logic should power up the machine at two-hour intervals to maintain product temperature.

## FLOATING-HEAD PRESSURE CONTROLS

**Measure:** Convert the head pressure controls of an existing multiplex system from fixed control to floating control to take advantage of low outdoor-air temperatures.

- The condensers must use variable speed drive, staged fan-operation or a combination of both.

## REFRIGERATED CASE LED LAMPS

**Measure:** Replace T12 or T8 fluorescent lamps with qualified LED lamps (See General LED Lighting Requirements).

- Refrigerated and freezer cases are eligible.
- Replace 5-foot and 6-foot fluorescent lamps on a one-for-one basis.
- Replacement of lamps less than five feet should be applied for under Linear LED rebate.
- Motion sensor must turn the light off when no motion is detected.
- Replacement cases with factory installed LED lamps are eligible for this rebate.

## STRIP CURTAINS ON WALK-INS

**Measure:** Install new strip curtains or clear plastic swinging doors on doorways of walk-in boxes.

- Not available for display cases or for replacement of existing strip curtains.
- Rebate is based on linear foot of door width.

## EVAPORATOR FAN MOTOR

**Measure:** Replace standard-efficiency shaded-pole evaporator fan motor in refrigerated display cases or fan coil in walk-ins with electronically commutated motor (ECM) or permanent split-capacitor (PSC) motor.

# Agriculture

## INDOOR AGRICULTURE LED

*A pre-application is required for this measure.*

**Measure: Install LED fixtures for indoor agricultural facilities that operate year-round.**

- Rebate is based on total photosynthetic photon flux (PPF) value of new LED fixtures.
- This measure contains three categories based on the cycle of the plant:
  - Seeding
  - Vegetative
  - Flowering
- Applicant is required to provide total number of fixtures and PPF per fixture for each space (cycle). If multiple LED fixture types are used in the same space (cycle), please apply using separate measures.
- The new LED fixtures must be either listed on the DLC Horticultural QPL or meet the following criteria:
  - Photosynthetic Photon Efficacy (PPE)  $\geq 1.9$
  - Power factor  $\geq 0.9$
  - New lighting must be UL/ETL certified
  - Minimum lifetime of 36,000 hours
  - Minimum warranty of 5 years

## INDOOR AGRICULTURE DEHUMIDIFIER

*A pre-application is required for this measure.*

**Measure: Install new portable or standalone refrigerated dehumidifier in indoor agriculture facility that operates year-round.**

- Rebate is based on water removal capacity per day, measured in pints.
- Pints per day shall be established using 80°F and 60% relative humidity.
- This measure contains two categories based on the efficiency factor (EF) of the dehumidifier. EF is measured in liters/kWh.
  - EF  $> 2.8$  and  $< 3.5$
  - EF  $\geq 3.5$

# Building Envelope

## HIGH-PERFORMANCE WINDOWS AND GLASS DOORS

**Measure: Install new windows and glass door can utilize any combination of glazing, coating, internal film and gas filling to meet the specified U-factor and solar heat gain coefficient (SHGC).**

- Glazing with east, south and west exposures are eligible.
- U-factor must be 0.32 Btu/hr-ft<sup>2</sup>-°F or less.
- U-factor is at center of glass.
- SHGC must be 0.40 or less.
- Films or coatings that are added to existing glazing may be considered as a custom measure.
- Provide a schedule indicating the model number, U-factor, SHGC, square foot per window, the quantity of windows and the exposure.
- Rebate is paid on a per-square-foot basis.
- It is recommended that the invoice include the performance specifications.

*A manufacturer's specification sheet must accompany the application.*

## SHADE SCREEN

**Measure: Add fixed exterior physical shading screens to windows.**

- Windows with east, south and west exposures are eligible.
- Shading coefficient must be 0.30 or less at a 30° profile angle.
- Interior window shades, such as blinds and drapes, and movable door screens do not qualify.
- A window schedule indicating the quantity, current window type, actual window surface dimensions, orientation, and brand and model number of screen material, along with specifications sheets must be provided.
- Rebate is paid on an installed per-square-foot basis.
- It is recommended that the invoice include the performance specifications.

*A manufacturer's specification sheet must accompany the application. Please contact a representative from the Solutions for Business team for a basic window schedule program.*

# Compressed Air

## ADDITIONAL COMPRESSED AIR RECEIVER

**Measure: Install additional compressed air receiver (storage tank) that will allow the system pressure to be reduced.**

- Installation of the storage device shall meet all applicable codes and industry standards.
- Rebate is based on nameplate horsepower of the primary compressor(s). Horsepower of standby / redundant compressors are not eligible.

## ZERO LOSS CONDENSATE DRAIN

**Measure: Install no loss/zero loss condensate drain (trap) on compressed air system that wastes no air in the purging of condensate.**

- Device shall have a float or level sensor that operates an electric solenoid or ball valve to maintain the condensate level in the reservoir below the high level point, or a float activates a pneumatic signal to an air cylinder to open a ball valve through a linkage to expel the condensate in the reservoir to the low level point.
- Rebate is paid per unit.

## Non-HVAC Custom

*A pre-application is required for this measure.*

Custom rebates are calculated based on the amount of energy saved (kWh) during two time periods that occur in the first year after the project is completed: (1) annual kWh saved and (2) summer on-peak kWh saved during the hours of 3:00 p.m. to 8:00 p.m., weekdays, June 1 to September 30.

The rebate calculation is based on the lower result of:

- Annual kWh saved x \$0.02/kWh saved + summer on-peak kWh saved x \$0.18/kWh saved
- or
- 75% of implementation costs

Customer/contractor shall submit detailed calculation supporting both annual and summer peak period savings.

Actual rebate payments will be based on either (1) documented electrical energy (kWh) reduction or (2) an electrical energy reduction estimate approved by APS Solutions for Business program staff. In no case will the rebate payment exceed 75% of the energy efficiency-related project costs, which are defined as the incremental costs associated with implementing the energy-saving measures. Pursuant to Arizona Corporation Commission decisions, when calculating incremental measure cost, APS is required to reduce the incremental measure costs by any known monetary rebates available from other entities (such as tax credits), regardless of whether a customer applies for them.

### PROJECT ELIGIBILITY

The APS Solutions for Business program offers custom rebates for energy efficiency improvements that do not fall under the standard offering, but have isolated and measurable or verifiable energy savings. All custom measures must pass a Benefit to Cost test, also called a Societal Cost Test (SCT), as defined and calculated by DNV using energy savings and incremental measure costs provided by the customer. Discontinued standard measures will not be considered for a custom rebate.

Equipment replacement projects must demonstrate that the old equipment has been eliminated from the resale market.

- Standard measures can be included with a custom application (rather than submitting separate applications) when those measures have interactive energy-saving effects.
- Ineligible projects include but are not limited to: cool roofs, electrical generation projects such as renewables, fuel switching and customer-owned on-site generation.
- Lighting projects should comply with the Illuminating Engineering Society of North America (IESNA) recommended lighting levels and local code.

## SUPPORTING DOCUMENTATION

Please attach the following documentation, in addition to required documentation as described in the APS Solutions for Business Program Policies and Procedures:

- Complete description of the proposed project, the products and technologies used, and how they will be employed. Include definitions of the base case and details of the proposed equipment (provide manufacturer's specification sheets for both base and proposed cases, if possible).
- All facilities, buildings or equipment that will be affected by the project; include all APS account numbers.
- Detailed cost breakdown by measure.

## SAVINGS CALCULATIONS

Include all relevant data that will allow an engineer to duplicate the savings estimate provided, such as:

- Concise description of the existing energy systems to be affected
- Facility physical description and occupancy (including activities in building and hours of operation)
- Location of affected equipment
- Condition and age of equipment if a degradation in nameplate efficiency is assumed
- Hours of operation of the affected equipment
- Number of existing units
- Ratings of equipment (wattage, nameplate, tonnage, voltage, etc.)
- Measure-by-measure savings calculations for both the annual and summer peak hour periods. Summary of the calculated savings associated with the project.
- Historical peak power (if demand metered) and/or energy consumption data
- Clearly indicate all assumptions and variables used in the savings analysis. Also describe the basis or rationale for each assumption and variable.

It is the applicant's responsibility to present a convincing case for estimating energy savings. If it is unclear whether your preferred method is sufficient, contact the program team at (866) 277-5605 or (602) 385-0900.

## ENERGY SAVINGS ANALYSIS

Inspections and all submitted documentation of pre-existing conditions will be reviewed to determine project eligibility and to estimate the base case energy usage. Applicants will be responsible for submitting complete documentation that indicates the basis for projected energy savings. We reserve the right to require pre- and/or post-measurement and verification for any project. Customers agree to abide by the APS determination of project baselines, which will be based on conservative estimates in absence of verifiable data. Where applicable, ASHRAE 90.1-2013 shall be used as the project baseline unless another baseline is mutually agreed upon. Projects where a baseline energy use cannot be established may be disqualified.