Efficiency United

Commercial and Industrial Energy Efficiency Program



2026 Electric Rebate Catalog

06.01.2026

Terms and Conditions

ELIGIBILITY: Efficiency United energy efficiency incentives are offered to qualifying commercial electric customers only while funding is available. Projects must be implemented (completed) by November 30, 2026. Projects must reduce electric usage through system efficiency improvements; control upgrades may also qualify. The following measures will not qualify: peak shaving, demand reductions, fuel switching, power generation, renewable energy or operating schedule changes. Equipment must meet the minimum number of annual operating hours.

COMPLIANCE: All projects must comply with applicable federal, state and local laws and building codes. All equipment must be new or retrofitted with new components per program specification. Used or rebuilt equipment is not eligible for incentives. Existing equipment must be removed or permanently disconnected. New equipment must meet specification requirements and existing equipment must be operational when the application is submitted. Only one incentive will be granted for each project. Customers can submit multiple projects in a calendar year. If the project is in a leased building, the lease term must be at least three (3) years and a copy of the lease may be requested. Up to 24 months of utility usage information may be requested.

INCENTIVE CAPS: Incentive caps may not exceed 75% of the total project cost, including materials, external labor, permits, equipment rental or disposal. Incentives awarded must stay within program budgets and remain cost effective for the program.

INSPECTION: Program staff reserves the right to conduct pre-inspections and post inspections of proposed and installed projects.

PUBLICITY: Efficiency United reserves the right to publicize your participation in this program, unless you specifically request otherwise.

LOGO USE: Customers or allies may not use the Efficiency United name or logo nor that of any participating utilities in any marketing, advertising or promotional material without written permission.

PROGRAM DISCRETION: Incentives are available on a first-come, first-served basis. Incentive amounts and offerings are subject to change or termination without notice at the discretion of Efficiency United.

PAYMENT: Once completed paperwork is submitted, incentive payments are usually made within 6 to 8 weeks. Incomplete applications will delay payments or result in denial of application approval. Efficiency United reserves the right to refuse payment and participation if the customer or contractor violates program terms and conditions. The qualified participating utility must receive 100% of the energy savings for the rated life of the product(s) or for a period of three (3) years from the receipt of incentive, whichever is less. If you do not provide the energy savings, the facility in which the installed projects are located closes or ceases operation within three (3) years from receipt of incentive or you cease to be a customer of a participating Efficiency United during the three (3) years, you shall refund a prorated amount of the incentive.

RELEASE/INDEMNIFICATION: Payment of rebates under the Program and/or evaluation of applications for rebates shall not deem Efficiency United or any of its affiliates, employees, contractors or agents ("Efficiency United Parties") to be responsible for any work completed in connection herewith. Applicant fully releases Efficiency United Parties from any and all claims it may have against Efficiency United Parties in connection with this application, the rebates or the work performed in connection with them. In addition, applicant agrees to defend, indemnify and hold Efficiency United Parties harmless from and against any and all claims, losses, demands or lawsuits by any third parties arising in connection with this application, the payment or non-payment of rebates or any work performed in connection with them. The customer hereby releases Efficiency United and participating utilities from any and all liability arising from or connected with releasing the information to Efficiency United set forth herein.

Efficiency United is a program administered and implemented by CLEAResult and the Michigan Community Action Agency Association pursuant to a contract with the State of Michigan, Department of Energy, Labor & Economic Growth, and in compliance with PA 295 of 2008 as amended.

Efficiency United

Notes

This is an electric rebate program. All measures are for electric equipment. The building/indoor space may be cooled during the cooling seasons.

Definitions

Redundant equipment – All equipment serving as backup or multiple versions of the same equipment needed to maintain the system load if one piece of the equipment fails is subject to redundancy does not qualify for incentives.

New construction – Projects involving new equipment that is not replacing or modifying existing equipment. This could include the installation of energy-efficient equipment and systems in newly built facilities, structures, or expansions (add-on).

Major renovation – Projects requiring permits, changes in architectural design or envelope, compliance with new energy codes, or major tenant improvements that change the use of the space

Michigan Energy Code – As of 4/22/25, Michigan Building Energy code for New Construction and Major Renovation projects must comply with ASHRAE 90.1 - 2019, per the state of Michigan. Projects meeting but not exceeding code requirements will not be eligible for incentives. New construction projects permitted prior to 4/22/25 could be reviewed against ASHRAE 90.1 - 2013 pending submission of a Building Permit.

Retrofit – Upgrading, replacing, or modifying existing equipment in an established facility to improve energy efficiency by installing more efficient models or systems, excluding redundant equipment

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2026 Electric Measure Specifications

1.0 Lighting

GENERAL REQUIREMENTS FOR LIGHTING

- **Qualifying Efficiency Requirement:**
  LEDs (except LED Exit Signs) should be listed as an approved product on the Design Lights Consortium® Solid State Lighting Qualified Products List (at least DLC SSL version 5.0/5.1) OR meet the minimum performance criteria their respective DLC product category such as:
  - Light output (lumens)
  - Luminaire efficacy (lumens/W)
  - Color Rendering Index (CRI)
  - Correlated Color Temperature (CCT)
  - L-70 estimated lifespan
  - Minimum warranty period
  - Dimmability
- **Exclusions:**
  Lights that are not DLC certified AND failed to meet the minimum performance criteria are ineligible
- **Other Requirements:**
  All installations must adhere to local building and energy codes.

Required Documentation:

- Proof of purchase and installation of LED lighting.
- Details of the replaced lighting system (e.g., wattage and type).
- Documentation or verification of operational hours
- For selectable wattage fixtures, photo documentation must be provided with the final application sufficient to verify any setting less than the maximum allowable fixture wattage setting

1.1 INTERIOR LED RETROFIT

Measure Description	Unit
LED Lights > 2,300 hours	Watts Reduced
LED Lights > 4,200 hours	Watts Reduced
LED Lights > 8,000 hours	Watts Reduced

- This incentive is available for the replacement or retrofit of interior lighting fixtures with high-efficiency LED fixtures.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit or replacement projects involving the following interior fixtures:
  - Incandescent.
  - Linear fluorescent (T5, T8, or T12) fixtures.
  - HID fixtures.
  - T5, T8, and T12 highbay/lowbay fixtures.
- **Baseline Efficiency:** Existing lighting fixtures.
- **Qualifying Efficiency Requirement:**
  Replacement or retrofit fixtures, including LED tubes, retrofit kits, and new fixtures must meet LED requirements outlined in the general requirements for lighting.
- Lighting must operate a minimum of 2,300 annual hours.

Important Considerations:

- This measure can be combined with refrigeration savings incentives due to light savings (refer to section 9.4 for details).
- If spec sheets for existing fixtures are unavailable, default wattages from tables 1 and 2 must be used.
- If upgrading from LED to more efficient LED, apply through custom-prescriptive route.

Table 1: Default Fluorescent Fixture Wattage

Fixture Description	1 Lamp	2 Lamp	3 Lamp	4 Lamp	6 Lamp
4ft F32 T8	31	59	89	112	175
4ft F28 T8	-	50	74	99	-
4ft F25 T8	-	44	66	90	-
3ft F25 T8	26	46	67	87	-
2ft F17 T8	20	33	47	61	-
4ft F40 T12	46	74	120	148	-
8ft F96 T8/T12	58	109	167	219	-
8ft F96 T8/T12 HO	80	160	-	320	-
4ft F28 T5	33	64	97	128	-
4ft F54 T5	62	117	179	234	351
4ft F32 T8 HO	36	65	93	-	-
4ft F32 T8 VHO	-	-	-	121	226
U-Tube F32 T8	32	60	89	-	-
U-Tube F32 T12	43	72	115	-	-

Table 2: Default HID Wattages

Fixture Description	Default Wattage
40W HID	50
50W HID	72
70W HID	95
75W HID	93
100W HID	128
150W HID	190
175W HID	215
200W HID	250
250W HID	295
360W HID	414
400W HID	458
700W HID	750
750W HID	850
1,000W HID	1,080
1,500W HID	1,610

1.2 EXTERIOR LED RETROFIT

Measure Description	Unit
Exterior LED Retrofit	Watts Reduced

- This incentive is available for replacing existing high-intensity discharge (HID) or incandescent fixtures with high-efficiency LED fixtures or induction lighting for exterior applications.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit or replacement projects.

- **Baseline Efficiency:** Existing (High Intensity Discharge) HID or incandescent fixtures.
- **Qualifying Efficiency Requirement:**
  - LED fixtures or retrofit kits must be an approved product on the Design Lights Consortium® Solid State Lighting Qualified Products List (DLC SSL version 5.0/5.1) OR meet the following performance criteria:
    - Luminaire efficacy ≥ 50 lm/W and CRI ≥ 80
  - LED lamps must operate at a minimum of 4,319 hours
- **Exclusions:** New construction applications should use a different measure. See section 1.6
- If upgrading from LED to more efficient LED, apply through custom-prescriptive route.

1.3 PARKING GARAGE LED RETROFIT

Measure Description	Unit
Parking Garage LED Retrofit	Watts Reduced

- This incentive is available for replacing existing high-intensity discharge (HID) or incandescent fixtures with high-efficiency LED fixtures or induction lighting for parking garage applications.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit or replacement projects.
- **Baseline Efficiency:** Existing (High Intensity Discharge) HID or incandescent fixtures..
- **Qualifying Efficiency Requirement:**
  - LED fixtures or retrofit kits must be an approved product on the Design Lights Consortium® Solid State Lighting Qualified Products List (DLC SSL version 5.0/5.1) OR meet the following performance criteria:
    - Luminaire efficacy ≥ 50 lm/W and CRI ≥80
  - LEDs must operate a minimum of 8,760 hours
- **Exclusions:** New construction applications should use a different measure. See section 1.6
- If upgrading from LED to more efficient LED, apply through custom-prescriptive route.

1.4 LED ILLUMINATED SIGNS

Measure Description	Unit
Interior	Watts Reduced
Exterior	Watts Reduced

- This incentive supports the replacement of non-LED lighting with high-efficiency LED sign lighting to improve energy savings and lighting performance.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects.
- **Baseline Efficiency:** Existing signage using incandescent, fluorescent, or neon lighting systems.
- **Qualifying Efficiency Requirement:**
  - LED lamps must operate for a minimum of 2,669 annual hours for interior applications.
  - LED lamps must operate for a minimum of 8,760 annual hours for exterior applications.

1.5 LED EXIT SIGNS

Measure Description	Unit
LED Exit Signs	Sign

- This incentive is available for replacing or retrofitting existing incandescent or CFL exit signs with electroluminescent or LED exit signs.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects only.
- **Baseline Efficiency:** Existing incandescent or CFL exit signs.
- **Qualifying Efficiency Requirement:**
  - Retrofit exit signs must have a minimum lifetime of 15 years.
  - Must be UL or ETL listed
  - Input wattage requirements: ≤ 2.5W per face OR ≤ 5W per sign
- **Exclusions:**
  - Non-electrified exit signs
  - Remote exit signs

1.6 NEW CONSTRUCTION/MAJOR RENOVATION LIGHTING

Measure Description		Unit
Lighting Power Density	Interior	Watts Reduced
	Exterior	
	Parking Garage	

- This incentive is available for interior and exterior lighting designs where the proposed Lighting Power Density (LPD) is at least 10% lower than the allowed LPD per applicable Michigan Energy Code (MEC) based on the construction permit.

Eligibility Criteria:

- **Applicability:** new construction or major renovation projects only.
- **Baseline Efficiency:** ASHRAE 90.1 - 2019 or other applicable MEC. See table on next page for ASHRAE LPD's.
- **Qualifying Efficiency Requirement:**
  - Incentive is calculated based on the difference between the applicable code's allowed wattage and the proposed installed wattage.
  - Lighting designs must comply with applicable codes and standards and ensure acceptable quantity and quality of light for the space type and tasks.
  - The "Building Area Method" OR the "Space-by-Space" method must be used to calculate the LPD.

Required documentation:

- Lighting plans
- Fixture spec sheets

- Optional] For new construction or major renovation projects, the U.S. Department of Energy COMcheck software may be used to document compliance. A "Lighting and Power Compliance Certificate" may be provided to supplement the application.

- **Exclusions:** Retrofit lighting and horticultural lighting uses a different measure.

Important Consideration:

- For detailed LPD requirement per ASHRAE 90.1-2019, please refer to Table 3 and 4 below

Table 3: ASHRAE 90.1-2019 LPD for Building Exteriors with Zone 2 Lighting

Applications	LPD
Tradable Surfaces (Lighting Power Densities for uncovered parking areas, building grounds, building entrances and exits, canopies and overhangs, and outdoor sales areas may be traded.)	
Uncovered Parking Area	
Parking areas and drives	0.04 W/ft^2
Building Grounds	
Walkways/ramps < 10 ft wide	0.5 W/linear ft
Walkways/ramps ≥ 10 ft wide, Plaza areas, Special Feature Areas	0.10 W/ft^2
Dining Areas	0.65 W/ft^2
Stairways	0.7 W/ft^2
Pedestrian Tunnels	0.12 W/ft^2
Landscaping	0.04 W/ft^2
Building Entrances, Exits, and Loading Docks	
Pedestrian and vehicular entrances and exits	14 W/linear ft of opening
Entry canopies	0.20 W/ft^2
Loading docks	0.35 W/ft^2
Parking areas and drives	0.04 W/ft^2
Non-Tradable Surfaces (Lighting Power Densities for the following applications can be used only for the specific application and cannot be traded between surfaces or with other exterior lighting. The following allowances are in addition to any allowance otherwise permitted in the "Tradable Surfaces" section of this table	
Building Facades (The allowance for each illuminated façade orientation shall be calculated by multiplying the allowable value by the entire façade area of façade length for that orientation.)	0.1 W/ft^2 of façade area or 2.5 W/linear ft of façade length
ATMs and night depositories	135 W per location plus 45W per additional ATM per location
Uncovered entrances and gatehouse inspection stations at guarded facilities	0.5 W/ft2
Uncovered loading areas for law enforcement, fire, ambulance and other emergency service vehicles	0.35 W/ft^2
Drive-through windows/doors	200 W per drive-through
Parking near 24-hour retail entrances	400 W per main entry
For areas that are not listed in this table or are not comparable to areas listed in this table, use the comparable interior space type from Table 4 as modified by the factor in this row	65% of the interior lighting power allowance value

Table 4: LPD Allowances using the Space-by-Space Method

Section 1 of 2: Space Types commonly found in multiple building types	LPD (W/ft^2)
Atrium	
≤ 20 ft in height	0.39
≥ 20 ft and ≤ 40 ft in height	0.48
> 40 ft in heights	0.60
Audience Seating Area	
Auditorium	0.61
Gymnasium	0.23
Motion picture theatre	0.27
Penitentiary	0.67
Performing arts theatre	1.16
Religious facility	0.72
Sports arena	0.33
All other audience seating areas	0.23
Bank	0.61
Classroom	
Penitentiary	0.89
All other classrooms/lecture halls/training rooms	0.71
Conference/Multipurpose Room	0.97
Confinement Cells	0.70
Copy/Print Room	0.31
Corridor	
Facility for the visually impaired (and not used by the staff)	0.71
Hospital	0.71
All other corridors	0.41
Courtroom	1.20
Computer Room	0.94
Dining Area	
Penitentiary	0.42
Facility for the visually impaired (and not used by the staff)	1.27
Bar/lounge or leisure dining	0.86
Cafeteria or fast-food dining	0.40
Family dining	0.60
All other dining areas	0.43
Electrical/Mechanical	0.43
Emergency Vehicle Garage	0.52
Food preparation	1.09
Guest Room	0.41
Laboratory	
In or as a classroom	1.1
All other laboratories	1.33
Laundry/Washing Area	0.53
Loading Dock, Interior	0.88
Lobby	
Facility for the visually impaired (and not used primarily by the staff)	1.69
Elevator	0.65
Hotel	0.51
Motion picture theater	0.21
Performing art theater	1.25
All other lobbies	0.84
Locker Room	0.52

Lounge/Breakroom	
Healthcare facility	0.42
All other lounges/breakrooms	0.59
Office	
Lounge/Breakroom	
Enclosed and ≤ 250 ft2	0.74
Enclosed and > 250 ft2	0.66
Open plan	0.61
Parking, Interior	0.15
Pharmacy	1.66
Restroom	
Facility for the visually impaired (and not used primarily by the staff)	1.26
All other restrooms	0.63
Bar/lounge or leisure dining	0.86
Cafeteria or fast-food dining	0.40
Family dining	0.60
All other dining areas	0.43
Sales Area	1.05
Seating Area, General	0.23
Stairwell	0.49
Storage	
< 50 ft2	0.51
≥ 50 ft2	0.38
Vehicular Maintenance Area	0.60
Workshop	1.26
Section 2 of 2: Space Types commonly found in a Single Building Type	**LPD (W/ft²)**
Facility for the Visually Impaired	
Chapel (used primarily by residents)	0.70
Recreation room/common living room (and not used primarily by staff)	1.77
Convention Center—Exhibit Space	0.61
Dormitory—Living Quarters	0.50
Fire Station—Sleeping Quarters	0.23
Gymnasium/Fitness Center	
Exercise area	0.90
Playing area	0.85
Healthcare	
Exam/Treatment room	1.40
Imaging room	0.94
Medical supply room	0.62
Nursery	0.92
Nurse's station	1.17
Operating room	2.26
Patient room	0.68
Physical therapy room	0.91
Recovery room	1.25
Library	
Reading area	0.96
Stacks	1.18
Manufacturing Facility	
Detailed manufacturing area	0.80
Equipment room	0.76
Extra high bay area (> 50 ft floor-to-ceiling height)	1.42
High bay area (25 ft to 50 ft floor-to-ceiling height)	1.24
Low bay area (< 25 ft floor-to-ceiling height	0.86
Museum	
General exhibition area	0.31
Restoration room	1.10
Performing Arts Theater—Dressing Room	0.41
Post Office—Sorting Area	0.76
Religious Facility	
Fellowship hall	0.54
Worship/pulpit/choir area	0.85
Retail Facilities	
Dressing/fitting room	0.51
Mall concourse	0.82
Sports Arena—Playing Area	
Class I facility	2.94
Class II facility	2.01
Class III facility	1.30
Class IV facility	0.86
Transportation Facility	
Baggage/carousel area	0.39
Airport concourse	0.25
Ticket counter	0.51
Warehouse—Storage Area	
Medium to bulky, palletized items	0.33
Smaller, hand-carried items	0.69

2.0 Lighting Controls

2.1 LIGHTING OCCUPANCY SENSORS

Measure Description	Unit
Lighting Occupancy Sensor < 150 sq. ft	Sensor
Lighting Occupancy Sensor 150 – 500 sq. ft	Sensor
Lighting Occupancy Sensor > 500 sq. ft	Sensor
Lighting Occupancy Sensor	Watt Controlled

- This incentive is available for the installation of eligible sensors to control interior lighting fixtures.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects only.
- **Baseline Efficiency:** Existing lighting systems without sensor-based controls.
- **Qualifying Efficiency Requirement:**
  - Sensors must be hardwired, wireless battery-powered, or wireless self-powered
  - Sensors must utilize passive infrared and/or ultrasonic detection technology
  - Controlled lighting fixtures must operate for a minimum of 1,800 annual hours
- **Other Requirements:** For fluorescent fixtures, rapid or programmed start ballasts are required.
- **Exclusions:**
  - Socket-based sensors
  - Multiple sensors controlling the same fixture

Important Consideration:

- Projects that include central lighting or daylight controls cannot combine incentives for these measures.

2.2 DAYLIGHT SENSOR CONTROLS

Measure Description	Unit
Daylight Sensor Control	Watt Controlled

- This incentive is available for the installation of daylight sensor controls in spaces with significant sunlight exposure and areas where task lighting is not critical.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit only.
- **Baseline Efficiency:** Existing lighting systems without daylight sensor controls.
- **Qualifying Efficiency Requirement:**
  - Lighting must operate for a minimum of 1,800 annual hours.
  - Daylight controls can use on/off, stepped, or dimming mechanisms.
  - On/Off Controller: Turns off artificial lighting when interior illumination meets the desired lighting level.
  - Stepped Controller: Dims artificial lighting by 50% when natural light provides 50% of the required illumination.
- **Other Requirements:** Proper commissioning of sensors is required to ensure calibration and energy savings.

Required Documentation:

- Pre-approval is required, including submission of floor plans and control schedules.

Important Consideration:

- Cannot be combined with central lighting or occupancy sensor incentives.

2.3 CENTRAL LIGHTING CONTROLS

Measure Description	Unit
Central Lighting Controls	Square Feet

- This incentive is available for installing an automated centralized lighting control system with override capabilities to control existing or replacement interior lighting fixtures.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit only.
- **Baseline Efficiency:** Existing lighting systems without existing lighting controls.
- **Qualifying Efficiency Requirement:**
  - The occupants' schedule of operation must be taken into consideration when programming the system.
  - Control system may include time clocks, packaged programmable relay panels and/or complete building automation controls.
- **Other Requirements:** Proper commissioning of sensors is required to ensure calibration and energy savings.

Required Documentation: Submission of floor plans and control schedules.

Important Consideration:

- Cannot be combined with daylight sensor controls or occupancy sensor incentives.

2.4 STAIRWELL LIGHTING CONTROLS

Measure Description	Unit
Stairwell Lighting Control	Watt Controlled

- This incentive is available for installing stepped dimming occupancy controls that adjust lighting levels based on occupancy.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit or new construction (if not required by code).
- **Baseline Efficiency:** Existing lighting systems without stairwell lighting control.
- **Qualifying Efficiency Requirement:**
  - Lighting must operate year-round (8760 hours).
  - Fixture output must be reduced to a minimum of 20% of full power when unoccupied
  - Dimming ranges from 5% to 20% at low level output

Required Documentation:

- Documentation of control schedule including power of lighting controlled

2.5 SWITCHING CONTROLS FOR MULTILEVEL LIGHTING

Measure Description	Unit
Switching Controls for Multilevel Lighting	Square Feet

- This incentive is available for the installation of a system that allows occupants or building control systems the ability to vary the amount of lighting in a space using multilevel switching to create different lighting schemes based on the task illumination requirements.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects only.
- **Qualifying Efficiency Requirement:**
  - Should be used with daylight or occupancy sensors to automate and maximize savings
  - Requires commissioning to calibrate sensors and ensure that energy savings and occupant comfort are realized
  - Incentive only for space with reasonable sunlight exposure
- **Other Requirements:** Proper commissioning of sensors is required to ensure calibration and energy savings.

Required Documentation:

- Spec sheet or documentation of the control system
- Drawings to verify square footagesensor incentives.

2.6 NETWORKED LIGHTING CONTROLS

Measure Description	Unit
Networked Lighting Controls	Square Feet

- This incentive is available for the installation of a central/ master front end system with room or fixture level lighting control.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit or new construction projects where strategies are not required by code.
- **Baseline Efficiency:** Existing lighting systems without existing lighting controls.
- **Qualifying Efficiency Requirement:**
  - Lighting control system must be Design Lights Consortium (DLC) listed
  - System must be centrally controlled with a reporting interface that is connected via hardware and/or wireless technology to all devices and luminaires both interior and exterior spaces
  - At least 3 efficient control strategies should be implemented such as occupancy sensing, daylight sensing, high end trim, or luminaire level lighting control
- **Other Requirements:** The control strategies implemented must exceed those listed in the Michigan Energy Code.

Required Documentation:

- Spec sheets for new control system
- Existing and proposed operating schedule
- Proposed lighting control strategies
- Controls drawing showing the square footage of areas connected to the system
- Projects > 100,000 sf must export kWh readings from control system in an excel spreadsheet with maximum 15-minute intervals over a 2-week period

Important Consideration:

- Sites with existing lighting control or non-DLC listed systems may be eligible through the custom pathway

3.0 HVAC Equipment

3.1 GROUND SOURCE HEAT PUMPS

Measure Description	Unit
GSHP < 135,000 17 EER Elec Base	Ton
GSHP < 135,000 19 EER Elec Base	Ton
GSHP < 135,000 17 EER	Ton
GSHP < 135,000 19 EER	Ton

- This incentive is available for the installation of ground source heat pumps (GSHPs) with a rated capacity less than 135,000 Btu/hr.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction.
- **Baseline Efficiency:** Electric resistance heating systems (e.g., baseboard heat) or outdated/inferior GSHP equipment.
- **Qualifying Efficiency Requirement:** Installation of a new GSHP unit with < 135,000 Btu/hr capacity.
- **Exclusions:** Systems replacing gas-fired heating equipment

Required Documentation:

- Equipment Spec sheet and/or AHRI certification showing GSHP capacity.
- Proof of removal or replacement of electric resistance heat or existing GSHP.
- Proof of purchase and installation.
- Apply for these measures through the custom-prescriptive route

3.2 COMPUTER ROOM AIR CONDITIONING ECONOMIZER MODE

Measure Description		Unit
Computer Room Air Conditioning Economizer Mode	< 65 MBH	MBH
	65-240 MBH	MBH
	> 240 MBH	MBH

- This incentive is available for installing glycol-free cooling economizers or pumped refrigerant economizers on direct expansion (DX) computer room air conditioning (CRAC) units used in mechanically cooled data centers.

Eligibility Criteria:

- **Applicability:** Eligible for both new installations of economizer mode on DX CRAC units and retrofits of existing DX CRAC units to add economizer functionality.
- **Baseline Efficiency:** DX CRAC units operating without economizer functionality.
- **Qualifying Efficiency Requirement:** Installation of functional glycol-free cooling or pumped refrigerant economizer
- **Exclusions:**
  - DX CRAC units with existing functioning economizers.
  - Or non-functional glycol economizers.

Required Documentation:

- Spec sheet for new economizer.
- Proof of installation commissioning documentation.

3.3 INFRARED HEATER

Measure Description	Unit
Infrared Heater	MBH

- This incentive supports the installation of new infrared heaters for space heating in commercial or industrial buildings.

Eligibility Criteria:

- **Applicability:** Only for building space heating applications. And new installations replacing existing unit heaters.
- **Baseline Efficiency:** Existing conventional unit heaters.
- **Qualifying Efficiency Requirement:**
  - Installation of new infrared heaters.
  - Must achieve at least a 10°F reduction in space setpoint temperature compared to the replaced unit heater.
- **Exclusions:** End-of-life replacement of existing infrared heaters does not qualify.

3.4 PACKAGE TERMINAL HEAT PUMPS (PTHP)

Measure Description	Unit
PTHP 7KBtu/hr – 15kBtu/hr	Ton
PTHP 7KBtu/hr – 15kBtu/hr PTAC base	Ton

- This incentive supports the installation of high-efficiency package terminal heat pumps (PTHPs) to replace low-efficiency units or for installation in new construction.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction application.
- **Baseline Efficiency:** Existing unit operating with EER ≤ 10.7
- **Qualifying Efficiency Requirement:** New PTHP must have EER ≥ 11.8 and COP ≥ 3.5

Required Documentation:

- Spec sheet for existing and proposed PTHP units
- Proof of purchase and installation.

4.0 HVAC Controls

4.1 HOTEL GUEST ROOM OCCUPANCY SENSOR

Measure Description	Unit
Hotel Guest Room Occupancy Sensor	Guest Room

- This incentive is available for installing sensors that control electric heating units for individual hotel rooms.

Eligibility Criteria:

- **Applicability:** Eligible for installation of new occupancy sensor controls for electric heating units in individual hotel rooms. Multi-room suites are eligible on a per-room basis.
  - Guest Room Occupancy Sensors are required by code for hotels with > 50 hotel rooms per ASHRAE 90.1 – 2019 which makes it ineligible for incentives
- **Qualifying Efficiency Requirement:**
  - Sensors must be automatic occupancy detectors.
  - Incentive is based on the number of guest rooms controlled, not the number of sensors installed.
- **Exclusions:**
  - Sensors controlled by a front desk system.
  - Replacement or upgrades to existing occupancy-based controls (not eligible as a prescriptive incentive).

Required Documentation:

- Proof of purchase and installation
- Spec sheet
- Room count verification

4.2 ENERGY MANAGEMENT SYSTEM (EMS)

Measure Description	Unit
Energy Management System	Square Feet
Web-Enabled EMS	Square Feet
Web-Enabled EMS with Electric Heat	Square Feet
RCx Web-Enabled EMS	Square Feet

- This incentive is available for installing a new Energy Management System (EMS) in existing buildings with inoperable time control functions on HVAC systems (including 7-day programmable thermostats). The EMS must meet specific technical and operational requirements.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects. Existing buildings with inoperable HVAC time control functions (no upgrades).
- **Qualifying Efficiency Requirement:**
  - Minimum of 10,000 square feet controlled by the new EMS.
  - Real-time outside air damper positioning.
  - At least three enhanced control strategies (e.g., supply air temperature reset, duct static pressure control, economizer control, AHU fan control, building pressure control).
  - If integrated with Demand Control Ventilation (DCV), must include real-time CO_2 monitoring at the operator interface.
  - Web-based interface with PC-based controls and graphical display.
- Setback period must exceed 2,200 annual hours.
- Minimum setback space temperature difference of 5°F in both heating and cooling modes.
- **Other Requirements:**
  - The EMS vendor must train facility staff and provide programming guidelines for system changes.
  - New HVAC EMS with central time clock control. Open-protocol architecture using LonTalk (ANSI/CEA 709.1) or BACnet (ASHRAE/ANSI 135) between all devices, unless granted a pre-approved exception.
- **Exclusions:** Upgrades on existing digital EMS systems.

Must provide the following with the application:

- Proposed EMS sequence of operations.
- Scaled floor plan of the building with controlled areas highlighted.
- Spec sheet of the proposed EMS.
- Proof of purchase and installation of new devices and sensors.

Retro-commissioning:

- Documentation showing existing and proposed schedules, temperature setpoints, and fan operation status.
- For economizer-equipped systems: real-time outside air damper position or command.
- For DCV-equipped systems: real-time CO_2 sensor readings.
- Proposed EMS must include capability for at least three enhanced control strategies (e.g., optimum start, supply air temperature reset, duct static pressure control, economizer control, AHU fan control, building pressure control).

Important Consideration:

- This measure should not be combined with 5.4, 5.5, 5.6 and 5.8

4.3 EMS FOR MANUFACTURERS HVAC FAN

Measure Description	Unit
Energy Management System for Manufacturers HVAC Fan	HP

- This incentive is available for installing unoccupied cycle control on an existing HVAC unit in a manufacturing facility.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction application in a manufacturing facility
- **Baseline Efficiency:** HVAC unit running continuously (24/7) without unoccupied cycle control

- **Qualifying Efficiency Requirement:**
  - Facility must have a defined unoccupied period during which the HVAC system can be turned off
  - Installation of an unoccupied cycle control system
- **Other Requirements:**
  - As part of the new control system, the owner must receive all related hardware and software

Required Documentation:

- Proof of existing HVAC unit operation schedule (showing 24/7 operation prior to installation)
- Original HVAC equipment nameplate data for motor size verification

Important Consideration:

- Motor size (HP) is determined from the original HVAC equipment nameplate data.

4.4 DEMAND CONTROL VENTILATION (DCV)

Measure Description	Unit
Demand Control Ventilation (DCV)	Square Feet
RCx DCV	Square Feet

- This incentive is available for installing CO_2 sensor controls that adjust the percentage of outside air based on variable occupancy levels.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit projects and new construction (if not mandated by code).
- **Baseline Efficiency:** Existing system without CO2-based outside air modulation. System must have a current fresh air requirement ≥ 10% of supply air volume.
- **Qualifying Efficiency Requirement:**
  - Conditioned space must be maintained between 65°F and 75°F during operating hours.
  - CO_2 sensors must be installed with fully functioning air-side economizers.
  - CO_2 sensors must control outside air dampers or VAV air dampers.
  - Controlled spaces must meet the current ASHRAE 62 standard, local building codes, and manufacturer recommendations.
- **Other Requirements:**
  - Return system CO_2 sensors are required for built-up systems.
  - Dual-temperature air-side economizers with zone-level CO_2 sensors for rooftop units are eligible.

Required Documentation:

- Floor plan of the controlled area
- Sequence of operation
- ASHREA 62 or local codes compliance confirmation

For retro-commissioning:

- Existing: Documentation (e.g., EMS screenshots, sequence of operations, functional testing reports) showing CO_2 sensor not currently used to reduce VAV damper position or outside air damper position beyond minimum.
- Proposed: Documentation showing CO_2 sensor used to reduce VAV damper position and/or outside air damper position beyond minimum settings.

Important Consideration:

- For retro-commissioning projects, all eligibility requirements still apply except that the DCV control is not initially functioning optimally.

4.5 HVAC OCCUPANCY SENSORS

Measure Description	Unit
HVAC Occupancy Sensors	Square Feet

- This incentive is available for the addition of occupancy sensors to HVAC systems, enabling automatic adjustment of temperature setpoints and airflow rates based on occupancy.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit projects and new construction with spaces that are heated with natural gas.
- **Qualifying Efficiency Requirement:**
  - Occupancy sensors must be capable of reducing the minimum airflow to the zone from ≥ 30% to ≤ 15% of the design flow rate
  - Must allow for a setback/setup of space temperature setpoints by a minimum of 5°F in both heating and cooling modes when the space is unoccupied
- **Exclusions:**
  - Spaces are already controlled by outside air demand control ventilation (DCV) systems
  - Cannot be combined with incentives for setback/setup control or energy management systems

Required Documentation:

- Floor Plans and Controlled Area: Detailed plans highlighting the areas where occupancy sensors will be installed and the zones they will control.
- HVAC documentation (e.g., BAS graphic screenshot, control programming, sequence of operations, functional testing documentation).
- Proposed control documentation should illustrate how occupancy sensors will modify airflow setpoints and temperature setpoints to achieve energy savings.

4.6 DCV & HVAC OCCUPANCY SENSORS

Measure Description	Unit
DCV & HVAC Occupancy Sensors	Square Feet

- This incentive is available for the simultaneous installation of demand control ventilation (DCV) and occupancy sensors in HVAC systems.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit projects and new construction (if not mandated by code).
- **Qualifying Efficiency Requirement:** Must meet the individual requirement of each measure (DCV and HVAC Occupancy Sensors).
- **Exclusions:**
  - Mandated by code for new construction.
  - Applications for DCV and HVAC occupancy sensors cannot be implemented separately.

Required Documentation:

- Documentation for both DCV and HVAC occupancy sensor measures is needed.

4.7 TEMPERATURE SETBACK

Measure Description	Unit
Setback/Setup	Square Feet
School - Setback with no A/C	Square Feet
Commercial Smart Thermostat	Square Feet

- This incentive is available for customers who install new setback controls utilizing an Energy Management System (EMS).

Eligibility Criteria:

- **Applicability:** Applicable for spaces with no temperature setback controls currently in place. Eligible for retrofit projects.
- **Qualifying Efficiency Requirement:**
  - New setback/setup must be at least 8°F and for a minimum of 56 hours per week.
  - Full setback must be achieved through time scheduling and/or occupancy control.
- **Exclusions:** New construction installations.

Required Documentation:

- Floor Plans and Controlled Area: Detailed plans highlighting the areas where thermostats will be installed and the zones they will control. Or highlighted area with sequence of operation.

Other considerations:

- Cannot combine multiple temperature setback measures on the same project

4.8 AIR SIDE ECONOMIZER

Measure Description	Unit
Air Side Economizer	Ton

- This incentive is available for retrofitting existing roof top Units (RTUs), Air Handling Units (AHUs), Split Direct-Expansion (DX) systems, or Unit Ventilators (UVs) that were originally designed without economizers or have inoperable economizer controls, with new economizer controls, including replacement of malfunctioning or inoperable damper actuators if applicable

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects. Retrofit applies to RTUs, AHUs, DX systems, and UVs without existing functional economizers.
- **Baseline Efficiency:** HVAC systems without economizer capability or with inoperable economizer controls.
- **Qualifying Efficiency Requirement:**
  - New damper actuators and controls must be installed and properly integrated into the existing system.
- **Other Requirements:**
  - Calibration and verification must be completed by a qualified technician.

Required Documentation:

- Proof of inoperable or absent economizer prior to retrofit.
- Documentation sufficient to verify there is no existing variable speed control for the ventilation fans.
- Documentation of new damper actuators and controls installed.

4.9 ENTHALPY ECONOMIZER

Measure Description	Unit
Enthalpy Economizer	Ton
RCx Economizer	Ton

- This measure is available for retrofitting existing rooftop units (RTUs), air handling units (AHUs), split direct-expansion (DX) systems or unit ventilators (UVs) that were designed without an economizer or that have inoperable economizer controls, with new enthalpy economizer controls, including replacement of malfunctioning or inoperable damper actuators if applicable.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects.
- **Qualifying Efficiency Requirement:**
  - Minimum qualifying airflow: 500 CFM.
  - Maximum qualifying airflow: 50,000 CFM
  - Enthalpy heat recovery systems with a minimum of 70% total outside air wheel effectiveness.

- Must include an airstream bypass to operate in economizer mode when conditions permit.

- **Other Requirements:**
  - Rated volume flow rate defined as supply air volume introduced to the space (per AHRI Standard 1060-2005).
- **Exclusions:**
  - Enthalpy heat recovery systems installed where required by local or state code.
  - New construction projects where energy recovery is required by code (supply air > 5,000 CFM and outside air > 70% of design supply air). Unless an exception to the code is satisfied (ASHRAE 90.1-2019)

Required Documentation:

- Spec sheet.
- System design documents.

For retro-commissioning:

- Documentation of existing conditions (e.g., EMS screenshots, outside air damper position photos, trend data, functional testing).
- Documentation of improvements showing system restored to intended function.

4.10 CHILLED WATER RESET CONTROLS

Measure Description		Unit
Chilled Water Reset	5 degree reset	Ton
	10 degree reset	Ton

- This incentive is available for installing chilled water reset controls that adjust the chilled water supply (CWS) temperature upward by up to 10°F based on outside air (OA) temperature. For example: at OA = 80°F, CWS = 45°F; at OA = 55°F, CWS = 55°F. This strategy reduces energy use while maintaining comfort.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects.
- **Baseline Efficiency:** Chilled water systems operating at fixed supply water temperatures.
- **Qualifying Efficiency Requirement:**
  - Reset schedule must be calibrated at each site to account for internal relative humidity conditions.
- **Other Requirements:**
  - If more than one chilled water valve on terminal equipment is 100% open, the CWS temperature must be decreased automatically.

Required Documentation:

- Reset schedule (calibrated for the specific facility).
- Reset logic.

4.11 CONSTANT AIR VOLUME (CAV) AIR HANDLING UNIT TO VARIABLE AIR VOLUME (VAV) AHU

Measure Description	Unit
CAV to VAV	Square Feet

- This incentive supports the conversion of existing constant volume (CAV) air handling units to variable air volume (VAV) systems.

Eligibility Criteria:

- **Applicability:** Existing constant volume air handling systems serving conditioned spaces (both heated and air conditioned)
- **Qualifying Efficiency Requirement:**
  - Existing constant air volume (CAV) system without variable flow capabilities. o Must include installation of VFDs on all system fans.
  - Must include installation of VAV boxes with reheat in at least four zones.
  - Modified controls for the new VAV operating conditions and digital zone control.
- **Exclusions:**
  - Projects that only add VFDs and controls to CAV units without full VAV conversion
  - Single-zone air handling equipment (e.g., classroom unit ventilators, fan coil units)

Required Documentation:

- Mechanical layout and scope of work identifying the original CAV system and proposed VAV modifications
- Control strategy
- Equipment Spec sheet
- Proof of purchase and installation

Important Consideration:

- Incentives cannot be combined with standalone VFD/VSD incentives for HVAC fans or pumps

4.12 HIGH-VOLUME LOW-SPEED FAN

Measure Description		Unit
High-Volume Low-Speed Fan	16' Fan Blade Diameter	Fan
	18' Fan Blade Diameter	Fan
	20' Fan Blade Diameter	Fan
	22' Fan Blade Diameter	Fan
	24' Fan Blade Diameter	Fan

- This incentive is available for installing horizontal, ceiling-mounted, high-volume low-speed (HVLS) fans (at least 16 feet in diameter) in commercial and industrial applications.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit/replacement and new construction applications in commercial and industrial settings.
- **Baseline Efficiency:** Multiple non-HVLS fans (including pedestal fans) or where no fans currently exist.
- **Qualifying Efficiency Requirement:**
  - HVLS fans should be horizontal, ceiling-mounted, and have a minimum diameter of 16 feet. Alternatively, air circulation devices or systems (e.g., pear-shaped air pods) may qualify if they limit temperature stratification to no more than 5°F between the thermostat location and the bottom of the ceiling.

Required Documentation:

- Proof of existing non-HVLS fans.
- Spec sheet
- Proof of purchase and installation.

Important Consideration:

- It can be combined with the destratification fan incentive for gas customers.

4.13 PROCESS COOLING VENTILATION REDUCTION

Measure Description	Unit
Process Cooling Ventilation Reduction	HP reduced

- This incentive is available for facilities that permanently reduce cooling season manufacturing or process ventilation volume flow rates through facility or process improvements.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects.
- **Baseline Efficiency:** Existing ventilation volume flow rate prior to reduction.
- **Qualifying Efficiency Requirement:**
  - Reduction must exceed 5,000 CFM.
  - Reduction must comply with all applicable local and/or state authority requirements.
- **Other Requirements:**
  - Ventilation rate decreases must be authorized by a Professional Engineer (PE) licensed in Michigan or a Certified Industrial Hygienist (CIH).
  - Operational performance (pre and post) must be verified by an independently certified Testing, Adjusting, and Balancing (TAB) Agent (certified by AABC or NEBB).
- **Exclusions:**
  - Significant changes in operational use (e.g., converting a factory into a warehouse).
  - Systems designed to allow CO_2 levels in occupied spaces to exceed 1,200 ppm.

Required Documentation:

- One-page narrative describing the proposed facility or process improvements and how they will reduce the ventilation air.
- Documentation sufficient to verify there is no existing variable speed control for the ventilation fans.
- An operational performance verification report prepared by a certified TAB agent.
- Documentation to verify the system will not exceed 1,200 ppm CO2 levels in occupied spaces.

5.0 Building Envelope & Distribution

5.1 PIPE WRAP

Measure Description		Unit
Electric Domestic Hot Water Pipe Insulation	Unconditioned Space (140˚F)	Linear Feet
	Conditioned Space (140˚F)	Linear Feet
	Unconditioned Space (120˚F)	Linear Feet
	Conditioned Space (120˚F)	Linear Feet

- This incentive is available for insulating existing domestic hot water (DHW) supply systems operating at a minimum of 120˚ F hot water supply temperature with no existing insulation.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects only.
- **Qualifying Efficiency Requirement:**
  - A minimum of R-4 of pre-formed pipe insulation must be added to existing bare metal pipe system application.
  - Bare pipe size must be ½ inch to 2 ½ inch nominal pipe diameter.
  - Insulation used for pipes should be high-density fiberglass insulation or closed-cell elastomeric foam insulation shaped for pipes
- **Other Requirements:** Minimum of 10 linear feet and maximum of 500 linear feet per boiler system
- **Exclusions:** New or recently repaired piping does not qualify.

Required Documentation:

- Manufacturer's name
- Insulation material type
- Material K-value or R-value rating
- Proof of purchase and installation

Important Consideration: Piping 3-inch nominal pipe diameter and larger may qualify as a custom measure.

5.2 AUTOMATIC HIGH-SPEED DOORS

Measure Description		Unit
Automatic High-Speed Doors	Between Freezer and Dock	Square Feet
	Between Cooler and Dock	Square Feet
	Between Freezer and Cooler	Square Feet

- This incentive is available for commercial and industrial refrigeration facilities with freezer, cooler, and/or dock areas that are currently dividing the separate spaces with different cooling set point with strip curtains.

Eligibility Criteria:

- **Applicability:** Eligible for for both new construction and retrofit.
- **Qualifying Efficiency Requirement:** Installation of high-speed doors separating spaces with different cooling set points.

Required Documentation:

- Spec sheet
- Proof of purchase and installation

6.0 Domestic Water

6.1 WATER HEATERS

Measure Description		Unit
Heat Pump Water Heater	> 55 gallons	Water Heater
Tankless Water Heater		

- This incentive is available for upgrading an electric water heater to heat pump water heater (HPWH) or a tankless electric water heater.

Eligibility Criteria:

- **Applicability:** Eligible for both new construction and retrofit.
- **Qualifying Efficiency Requirement:**
  - Replacement water heater must be an electric unit, have a uniform energy factor ≥ 2.20, and HPWH must meet Energy Star® requirements.
  - Electric Tankless water heater must have an (Uniform Energy Factor) UEF ≥ 0.95
- **Other Requirements:** Existing and new residential units used in commercial applications must be the same size in gallons.

Required Documentation:

- Spec sheet
- Proof of purchase and installation

6.2 LOW-FLOW FAUCET AERATORS

Measure Description		Unit
Low-Flow Faucet Aerator – Private Restrooms	0.5 gpm	Unit
	1.0 gpm	
Low-Flow Faucet Aerator – Public Restrooms	0.5 gpm	

- This incentive is available for the installation of low-flow aerators in commercial restrooms.

Eligibility Criteria:

- **Applicability:** Eligible for both new construction and retrofit.
- **Baseline Efficiency:**
  - Private restroom baseline of 2.2 gpm
  - Public restroom baseline of 1.67 gpm
- **Qualifying Efficiency Requirement:**
  - Must be an electric water heater

Required Documentation:

- Spec sheet
- Proof of purchase and installation

6.3 MUNICIPAL WATER SUPPLY/TREATMENT

Measure Description	Unit
Municipal water supply – indirect savings	kgal supplied / treated per year
Municipal water treatment – indirect savings	

- This incentive is available for savings associated with avoided water usage in the commercial and industrial sector. Energy savings are due to reduction in supply energy from municipal supply or customer well pump as well as for reduced energy due to discharge to a treatment plant.

Eligibility Criteria:

- **Qualifying Efficiency Requirement:**
  - Municipal water supply – indirect savings reflects use of city water and should be used mostly for commercial and industrial customer.
- **Exclusion:** If customer sources and treats their own water (wells, lagoons), direct savings should be used. This measure is only for indirect savings.

Required Documentation:

- List of measures that save water with quantities of project installed (4 low flow showerheads or 40 kgal/yr)

Important Consideration: This incentive may be taken in addition to electrical energy savings associated with steam cookers, dishwashers, etc.

6.4 HIGH EFFICIENCY PUMPS

Measure Description	Unit
High Efficiency Pumps Low Hours < 2000 hours	HP

- This incentive is available for the installation of high efficiency pumps with motors rated less than or equal to 50 HP

Eligibility Criteria:

- **Applicability:** Eligible for both new construction and retrofit.
- **Baseline Efficiency:** Constant load/constant speed pumps are considered the baseline with the PEI calculated in tables 5 and 6 below
- **Qualifying Efficiency Requirement:**
  - Eligible pump classes are: End Suction Frame Mounted (ESFM), End Suction Close Coupled (ESCC), In-Line (IL), Radially Split Multi-Stage Vertical In-Line (RSV), Vertical Turbine - Submersible (VTS)
- **Other Requirements:** Existing and new residential units used in commercial applications must be the same size in gallons.

Required Documentation:

- Spec sheets for pumps
- Annual hours of operation
- Proof of purchase and installation

Important Consideration

- PEI values for qualified pumps are found at the Hydraulic Institute – Energy Rating website (er.pumps.org/ratings/search)
- Pumps with VFDs could be eligible for a separate measure, if not required by code for new construction
- Pumps > 50 HP or > 2,000 hours could be eligible for a custom application

Table 5: PEI-CL Baseline (Constant Load)

Pump Class*, Speed (RPM)	Constant Load Baseline (PEI-CL)
ESCC, 1,800	1.00
ESCC, 3,600	0.96
ESFM, 1,800	0.98
ESFM, 3,600	0.99
IL, 1,800	0.99
IL, 3,600	0.98
RSV, 1,800	0.98
RSV, 3,600	0.98
VTS, 1,800	0.96
VTS, 3,600	0.96

Table 6: PEI-CL Baseline (Variable Load)

Pump Class*, Speed (RPM)	1 – 1.9 HP	2 – 3 HP	3.1 – 5.9 HP	6 – 50 HP
ESCC, 1,800	0.55	0.53	0.51	0.49
ESCC, 3,600	0.57	0.55	0.54	0.51
ESFM, 1,800	0.55	0.53	0.52	0.49
ESFM, 3,600	0.58	0.55	0.51	0.51
IL, 1,800	0.54	0.55	0.51	0.49
IL, 3,600	0.56	0.57	0.54	0.51
RSV, 1,800	0.56	0.55	0.52	0.50
RSV, 3,600	0.56	0.55	0.52	0.50
VTS, 1,800	0.66	0.63	0.60	0.60
VTS, 3,600	0.66	0.63	0.60	0.60

7.0 Motors and Drives

7.1 VFDs ON HVAC PUMPS OR FANS

Measure Description		Unit
VFD on HVAC	Pumps	CHW HP
	Fan	HP
RCx VFD CW	Pump	HP
RCx VFD HW	Fan	HP
RCx VFD	Return Fan	HP
RCx VFD	Supply Fan	HP

- This incentive is available for installing Variable Frequency Drives (VFDs) on existing HVAC fans and pumps to improve efficiency by matching motor speed to system demand.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects.
- **Baseline Efficiency:** Existing HVAC fans and pumps with throttling devices or constant speed operation. Motor must operate more than 2,000 annual hours.
- **Qualifying Efficiency Requirement:**
  - Installation of VFDs must include permanent removal or disabling of throttling devices (inlet vanes, bypass dampers, bypass valves, throttling valves).
  - VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signals.
- **Exclusions:**
  - Redundant or backup units.
  - New chillers (with or without integrated VFDs).
  - Replacement of existing VFDs.
  - Existing two-speed cooling tower motors retrofitted with VFDs.
  - New cooling towers.
  - New HVAC fans or AHUs (per ASHRAE 90.1–2019)
  - New HVAC hydronic pumps (per ASHRAE 90.1–2019)

Required Documentation:

- Proof of baseline operation
- Proof of purchase and installation
- Control sequence showing VFD tied to variable signal (differential pressure, flow, temperature, etc.)

For Retro-Commissioning:

- **Existing Case:** Documentation (e.g., EMS screenshots, trend data, functional testing) showing VFD operating at fixed speed.
- **Proposed Case:** Documentation (e.g., EMS screenshots, sequence of operations, as-built design documents) showing VFD operating at variable speeds.

Important Consideration: New chillers with integrated VFDs may qualify under the chiller incentive instead.

7.2 VFDs FOR PROCESS FANS-CRAC UNITS

Measure Description	Unit
VFDs for Process Fans – CRAC units	HP

- This incentive is available for installing Variable Frequency Drives (VFDs) on CRAC (Computer Room Air Conditioning) unit process fans to improve efficiency by matching motor speed to system demand.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects new construction if VFD is not required by code (ASHRAE 90.1–2019).
- **Baseline Efficiency:** The CRAC will operate continuously, year-round. Pre-existing motor did not have VFD or multi-speed control.
- **Exclusions:** Installation of a new CRAC with VFD control of fans is not eligible for this measure if variable speed control is required by code (ASHRAE 90.1–2013).

Required Documentation:

- Rated horsepower (HP) of each of the controlled fan motors.
- Spec sheet.
- Proof of purchase and installation

7.3 VFDs ON PROCESS PUMPS OR FANS

Measure Description		Unit
VFD on Process	Pumps	HP
	Fan	HP

- This incentive is available for installing Variable Frequency Drives (VFDs) on process (non-HVAC) pumps and fans ≤ 50 HP.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects.
- **Baseline Efficiency:** Constant-speed process pumps or fans operated with throttling devices. Pump or fan must operate more than 3,800 annual hours. Motor size ≤ 50 HP.
- **Qualifying Efficiency Requirement:**
  - VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signal.
- **Other Requirements:**
  - Permanent removal or disabling of throttling devices (e.g., throttling valves) must accompany installation.
- **Exclusions:**
  - Redundant or backup units.
  - Routine replacement of existing VFDs.
  - Existing two-speed cooling tower motors retrofitted with VFDs.
  - VFDs used solely as soft-start motors.
  - Open pumping systems (open-loop cooling tower pumps), deep well pumps, high static head pumps, or pumps discharging into systems with varying head requirements (e.g., water storage tanks). These may qualify as custom incentives.

Required Documentation:

- Rated horsepower (HP) of each of the controlled motors
- Documentation of baseline system operation
- Control sequence
- Proof of purchase and installation

Important Consideration:

- VFDs on process pumps or fans > 50 HP may qualify as a custom measure.

7.4 INTEGRATED VARIABLE SPEED MOTOR (ECM) FOR FURNACE, UV, FC & LIGHT DUTY AHU

Measure Description	Unit
Integrated Variable Speed Motor (ECM) For Furnace, UV, FC and Light Duty AHU — up to 7.5 HP	Unit

- This incentive is available for equipping furnaces, unit ventilators (UVs), fan coil units (FCUs), or light-duty air handling units (AHUs) with an integrated variable speed motor.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects.
- **Baseline Efficiency:**
  - Existing equipment with constant-speed fan motors.
- **Qualifying Efficiency Requirement:**
  - Replacement motor must have a variable input.
  - Brushless DC motors, also known as electronically commutated motors (ECMs), qualify.

Required Documentation:

- Spec sheet
- Proof of baseline constant-speed motor
- Proof of purchase and installation
- Documentation of new deployed systems.

7.5 DRIVE BELTS

Measure Description	Unit
Cogged to Synchronous Belt on Motor 1-25 hp	HP
Cogged to Synchronous Belt on Motor 30-500 hp	HP
Standard to Cogged Belt on Motors 1-25 hp	HP
Standard to Cogged Belt on Motors 30-500 hp	HP
Standard to Synchronous Belt on Motor 1-25 hp	HP
Standard to Synchronous Belt on Motor 30-500 hp	HP

- This incentive is available for upgrading a cogged belt to a synchronous belt or a standard belt to cogged belt or a standard belt to a synchronous belt.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit projects and new construction projects.
- **Baseline/Qualifying Efficiency:**
  - Please refer to the table above for suitable conditions.
  - Motor operates at least 1,200 hours per year.

Required Documentation:

- Motor rated horsepower (HP)
- Annual hours
- Retrofit: proof of the existing conditions
- Proof of purchase and installation

Important Consideration:

- For a single drive with multiple V-belts, the horsepower (HP) must be divided by the number of belts.

8.0 Compressed Air

General requirements:
Incentives are not available for backup, redundant and non-production air compressors, unless otherwise noted.

- A single air compressor system is defined as a compressed air system that only requires one air compressor to operate to meet the facility's post-installation or post retrofit peak compressed air demand.
- A multiple air compressor system is defined as a compressed air system that requires two or more air compressors to operate simultaneously to meet the facility's post installation or post-retrofit peak compressed air demand.

8.1 REFRIGERATED CYCLING AIR DRYER-THERMAL MASS, VSD OR DIGITAL SCROLL

Measure Description		Unit
Refrigerated Cycling Air Dryer	VSD	SCFM
	Digital Scroll	SCFM

- This incentive is available for replacing an existing non-cycling refrigerated air dryer with a cycling refrigerated air dryer of equivalent capacity.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects.
- **Baseline Efficiency:** Existing refrigerated air dryer operating exclusively in non-cycling mode without any feature allowing cycling operation. System must operate more than 6,300 annual hours.
- **Qualifying Efficiency Requirement:**
  - New cycling refrigerated air dryer must include dew point control.
- **Exclusions:**
  - Existing non-cycling dryers that already have features enabling cycling mode.

Required Documentation:

- HP rating of the air compressor system for both existing and proposed dryers.
- Rated flow rate (SCFM) of existing and proposed dryers.
- Rated and maximum operating flow rate of the compressor.
- Daily, weekly, and annual operating schedule.
- Detailed load profile showing percentage of operating time at full load and partial loads (in 10% increments).
- Proof of purchase and installation

Important Consideration:

- Replacement of non-cycling refrigerated air dryers with cycling models of equivalent capacity.
- For thermal mass, apply through custom-prescriptive route.

8.2 COMPRESSED AIR DRYER, DEW POINT SENSOR CONTROL

Measure Description	Unit
Compressed Air Dryer, Dew Point Sensor Control	SCFM

- This incentive is available for adding dew-point controlled column regeneration to desiccant compressed air dryers.

Eligibility Criteria:

- **Applicability:** Eligible projects include retrofits on existing dryers or installation as an option on new dryers.
- **Baseline Efficiency:** Desiccant dryers regenerating on a fixed cycle without dew-point control. Compressor systems must operate more than 6,300 annual hours.
- **Qualifying Efficiency Requirement:**
  - Dew-point control system added for column regeneration.
  - System must have adequate controls to ensure proper trim capability
  - Eligible compressor controls include Variable Speed Drive (VSD), Variable displacement controls and Load/no-load compressors.
- **Other Requirements:**
  - Systems with modulating compressors are eligible if a trim compressor with one of the above controls is present.
- **Exclusions:**
  - Cannot be combined with an incentive for new heated blower purge dryers with dew-point control.

Required Documentation:

- Proof of retrofit or new installation with dew-point controlled regeneration.
- Operating schedule
- System description, Spec sheet.

8.3 HEAT-OF-COMPRESSION AIR DRYER

Measure Description	Unit
Heat of Compression Air Dryer	SCFM

- This incentive is available for installing a heat-of-compression desiccant compressed air dryer that uses the heat in compressed air to regenerate the desiccant media.

Eligibility Criteria:

- **Applicability:** Eligible for both new construction and retrofit projects. Compressed air systems with ≥ 50 HP total combined compressor capacity (excluding backup/redundant/non-production units).
- **Baseline Efficiency:** For retrofit projects: existing desiccant compressed air dryers using regeneration methods other than heat-of-compression (e.g., supplemental heat, compressed air, blower air, or combinations).

- **Qualifying Efficiency Requirement:**
  - Installation of a new heat-of-compression desiccant dryer.
- **Exclusions:**
  - Backup, redundant, or non-production compressors cannot be counted toward the minimum 50 HP requirement.

Required Documentation:

- Verification of compressed air system combined HP rating
- Manufacturer name and model number of the new dryer
- Rated capacity (SCFM) of the new dryer.
- For retrofit projects: documentation confirming existing dryer's regeneration method.
- Proof of purchase and installation

8.4 LOW-PRESSURE DROP AIR FILTER

Measure Description	Unit
Low-Pressure Drop Air Filter	HP

- This incentive is available for installing deep-bed mist eliminator filters on compressed air systems to prevent over-filtering.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects.
- **Baseline Efficiency:** Standard compressed air filtration systems with higher pressure drops requiring over-pressurization. Compressed air systems operating more than 6,300 annual hours.
- **Qualifying Efficiency Requirement:**
  - Filter must be deep-bed "mist eliminator" style.
  - Pressure loss at rated flow:
    - ≤ 1 psi when new.
    - ≤ 3 psi at element change.
  - Filtration efficiency:
    - 100% at ≥ 3.0 microns.
    - ≥ 99.98% between 0.1 and 3.0 microns.
    - Rated for ≤ 5 PPM liquid carryover.
    - Filter element life ≥ 5 years.

Required Documentation:

- Spec sheet
- Proof of installation and system operating schedule

8.5 ZERO-LOSS CONDENSATE DRAIN

Measure Description	Unit
Zero-Loss Condensate Drain	Drain

- This incentive is available for replacing existing timed or manually operated condensate drains in compressed air systems with "no-loss" drains.

Eligibility Criteria:

- **Applicability:**
  Eligible for both retrofit and new construction projects.
- **Baseline Efficiency:**
  A timed manually opened drain. Systems must operate more than 6,300 annual hours. Compressed air systems with a total rated horsepower (HP) greater than 50.
- **Qualifying Efficiency Requirement:**
  - Replacement must be a "no-loss" drain that continuously measures condensate presence and purges only when necessary and only long enough to remove condensate.
- **Exclusions:**
  - Manual, timed, or electronic solenoid valve condensate drains.

Required Documentation:

- Documentation of existing timed/manual drain.
- Spec sheet
- Total compressed air system HP.
- Operating schedule.

8.6 COMPRESSED AIR ENGINEERED NOZZLE

Measure Description	Unit
Compressed Air Engineered Nozzle - 1/8" diameter	Nozzle
Compressed Air Engineered Nozzle - 1/4" diameter	Nozzle
Compressed Air Engineered Nozzle - 3/8" diameter	Nozzle
Compressed Air Engineered Nozzle - 1/2" diameter	Nozzle

- This incentive is available for replacing simple open pipe or tube assemblies connected to a compressed air system with engineered nozzles.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects.
- **Baseline Efficiency:** Open pipe or tube assemblies connected to compressed air systems. Must operate at least 1,000 annual hours.
- **Qualifying Efficiency Requirement:**
  - Engineered nozzle diameter must be between 1/8 inch and 1/2 inch.
  - Air jets and nozzles must have an SCFM rating at 80 psi less than or equal to values listed in Table 8 below.

Required Documentation:

- Spec sheet
- Operating schedule.
- Proof of purchase and installation

Table 8: Qualifying SCFM Rating

Size (Inches)	1/8	1/4	3/8	1/2
SCFM	10	18	35	60

8.7 COMPRESSED AIR PRESSURE FLOW CONTROLLER

Measure	Unit
Compressed Air Pressure Flow Controller	HP

- This incentive is available for installing a pressure/flow controller downstream of the air storage receiver tank in a compressed air system.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects.
- **Baseline Efficiency:** Systems without pressure/flow controllers, operating at higher discharge pressures. Compressed air systems operating more than 6,300 annual hours. Compressed air systems ≥ 50 HP.
- **Qualifying Efficiency Requirement:**
  - Compressor discharge pressure setpoint must be reduced by at least 5 psig
  - Must demonstrate stable downstream pressure and ability to reduce compressor setpoint.
- **Exclusions:**
  - Systems that cannot reduce pressure due to process or operational constraints.

Required Documentation:

- Spec sheet
- Proof of installation and system operating schedule
- Compressor system size
- Verification of compressor discharge pressure

8.8 DESICCANT TO REFRIGERATED AIR DRYER

Measure Description	Unit
Desiccant to Refrigerated Air Dryer	Per SCFM

- This incentive is available for replacing existing desiccant compressed air dryers with more efficient refrigerated non-cycling compressed air dryers in compressed air systems.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects.
- **Baseline Efficiency:** Existing desiccant compressed air dryer in use where low dew points are not required with a total combined HP ≥ 50.
- **Qualifying Efficiency Requirement:**
  - Must install a refrigerated non-cycling compressed air dryer of appropriate capacity.
- **Exclusions:**
  - Backups, redundant air dryers.
  - Replacement of existing refrigerated dryers.

Required Documentation:

- Verification of total combined compressor horsepower (HP)
- Specification.
- Proof of purchase and installation

8.9 AIR COMPRESSOR OUTDOOR INTAKE

Measure Description	Unit
Air Compressor Outdoor Intake	HP

- This incentive is available for modifying an existing air compressor by permanently hard-ducting the air inlet from ambient conditioned (heated) indoor space to directly draw from outside air.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects.
- **Baseline Efficiency:** Existing air compressors operating with indoor conditioned air intake. Compressed air systems operating more than 6,300 annual hours. Compressed air systems ≥ 50 HP. Must operate at ≥ 80 psig.
- **Qualifying Efficiency Requirement:**
  - Inlet air permanently ducted to outside air.
  - Manufacturer must confirm compressor can handle increased static pressure drop and cold intake temperatures without adverse effects.
- **Exclusions:**
  - Backup compressors.

Required Documentation:

- Manufacturer's confirmation on safe operation with outside air ducting.
- Compressor nameplate
- Proof of ducting modification from indoor intake to outdoor air source.
- Operating schedule

8.10 COMPRESSED AIR STORAGE TANK

Measure Description	Unit
Compressed Air Storage Tank	Per hp

- This incentive is available for installing new compressed air storage tanks in systems comprised of rotary-screw compressors.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects.
- **Baseline Efficiency:**
  - Existing compressed air systems with less than 3 gallons/SCFM of storage.
  - Systems must be comprised of rotary-screw compressors. Compressors supplying the receiver must use one of the following control types: load/no-load, variable displacement, VSD, or modulating controls.
  - Systems with modulating control must include and operate with blowdown controls.
- **Qualifying Efficiency Requirement:**
  - New storage tank capacity must be ≥ 5 gallons/SCFM.

- Minimum 2 psig differential required between compressor discharge pressure (supply end) and plant header pressure.

- **Other Requirements:**
  - A pressure/flow controller must be present at the facility to regulate supply and demand pressure.
- **Exclusions:**
  - Replacement of existing end-of-life tanks with same-sized tanks.

Required Documentation:

- Compressor system Spec sheet, including control type.
- Current storage capacity (gallons/SCFM)
- Spec sheet
- Verification of ≥ 2 psig pressure differential between compressor discharge and plant header.
- Proof of purchase and installation

8.11 COMPRESSED AIR AUDIT AND LEAK REPAIR

Measure Description	Unit
Compressed Air Audit and Leak Repair	SCFM of Repaired Leaks

- This incentive is available for conducting a comprehensive audit of compressed air systems, including leak detection, tagging, and system analysis to recommend energy optimization measures.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects.
- **Baseline Efficiency:**
  - Compressed air systems must be electrically driven.
  - System rated horsepower must be ≥ 50 HP (excluding backup and non-production compressors; these must still be noted in the report).
  - System must operate more than 2,000 annual hours (excluding backup compressors).
  - Audit must be performed by an independent contractor chosen by the customer.
- **Qualifying Efficiency Requirement: :**
  - Leak detection and tagging must be completed prior to any repairs. Leak repair tags must remain in place for verification.
  - At least 50% by volume of identified leaks must be repaired.

Required Documentation:

- Audit report including leak detection survey results, tagging, and quantification.
- Customer/contractor must submit evidence of completed repairs, including leak location, leak volume, and repair date, in a spreadsheet.
- Verification of repairs may include repair tickets, work orders, and invoices for materials and labor.
- Documentation of compressor HP, runtime hours, and process utilization.
- Detailed potential energy/cost savings calculations based on measurements (both from leaks and compressed air system)

Important Consideration:

- Pre-approval is required before leak repairs are performed. Leak repair tags are expected to be left in place for inspection. Incentive amount is 75% of the repair costs of documented leaks.

8.12 VSD AIR COMPRESSOR

Measure Description	Unit
VSD Air Compressors ≥ 50 HP and ≤ 500 HP	HP
VSD Air Compressors ≤ 50 HP	
VSD Air Compressors – Low Operation Hours	

- This incentive is available for installing a variable speed screw compressor to replace an existing screw compressor with modulating or load/no-load control.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects.
- **Baseline Efficiency:**
  - Existing screw compressors with modulating or load/no-load controls.
  - Eligible compressor size: ≤ 500 HP.
  - Both single-compressor and multiple-compressor systems are eligible for incentive if minimum runtime thresholds are met.
- **Qualifying Efficiency Requirement:**
  - **Single-compressor systems:**
    - ≥ 6,000 hrs/yr for high operation hour qualification.
    - ≥ 2,000 hrs/yr for low operation hour qualification.
  - **Multi-compressor systems:**
    - ≥ 7,200 hrs/yr for high operation hour qualification.
    - ≥ 4,000 hrs/yr for low operation hour qualification.
    - Apply through custom-prescriptive route.
    - VSD compressor must operate as the partially loaded (trim) unit.
    - Only one VSD compressor per plant is eligible.

Apply through custom-prescriptive.
    - For multiple VSD compressor systems, apply through custom.
- **Exclusions:**
    - Adding a VSD to an existing compressor
    - Redundant or backup compressors.
    - Systems already operating with VSD or VD compressors.

Required Documentation:

- Compressor nameplate data
- Proof of baseline compressor control type
- Operating hours
- For multiple-compressor systems: documentation verifying system controls keep VSD as trim unit.

Important Consideration:

- Incentives are based on new or retrofitted VSD compressor horsepower (HP) and operating hours.
- Low operation hours measure applies to VSD air compressors ≥ 50 HP and ≤ 500 HP

8.13 AIR RECYCLING VALVES

Measure Description	Unit
Air Recycling Valve on Pneumatic Cylinder > 4,000,000 cycles/yr	Unit
Air Recycling Valve on Pneumatic Cylinder > 2,000,000 cycles/yr	Unit

- This incentive is available for installing spool valves that serve double-acting pneumatic cylinders.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects. (Must be installed on a double-acting pneumatic cylinder.).
- **Baseline Efficiency:**
    - Standard valves without center-passing spool design.
    - Cylinder must operate with a minimum cycling frequency of more than 2,000,000 cycles per year (≈1 cycle every 15 seconds).
    - Minimum line pressure to the cylinder must be at least 60 psig.
- **Qualifying Efficiency Requirement:**
    - The valve must feature a center position that routes pressurized air from the energized side to the opposite side upon activation.
    - Cylinder bore must be larger than 1 inch.
    - Cylinder stroke must be larger than 2 inches.
    - Reduction must comply with all applicable local and/or state authority requirements.

Required Documentation:

- Spec sheet
- Proof of purchase and installation
- Operating schedule and estimated cycle frequency

9.0 Commercial Refrigeration

9.1 ENERGY-EFFICIENT ICE MACHINE

Measure Description		Unit
Energy Star® Ice Machine	< 500 lbs	Unit
	500-1,000 lbs	
	> 1000 lbs	

- This incentive is available for ice machines that generate cubes, flaked, crushed or fragmented ice that is 60 grams (2 oz) or less.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects.
- **Qualifying Efficiency Requirement:**
  - Only air-cooled machines qualify (self-contained, ice-making heads or remote condensing)
  - The machine must have a minimum capacity of 101 lbs of ice per 24-hour period
  - The minimum efficiency required is per Energy Star® or CEE Tier 2 (www.cee1.org)

Required Documentation:

- Spec sheet showing the rating in accordance with AHRI Standard 810
- Proof of purchase and installation

9.2 ENERGY STAR® SOLID DOOR FREEZER/ REFRIGERATOR

Measure Description		Unit
Energy Star® Solid Door Refrigerator	< 15 ft³	Unit
	15-30 ft³	
	30-50 ft³	
Energy Star® Solid Door Freezer	< 15 ft³	
	15-30 ft³	
	30-50 ft³	
Energy Star® Glass Door Refrigerator	< 15 ft³	
	15-30 ft³	
	30-50 ft³	
	> 50 ft³	
Energy Star® Glass Door Freezer	< 15 ft³	
	15-30 ft³	
	30-50 ft³	
	> 50 ft³	

- This incentive is available for the installation of Energy Star® solid/glass door refrigerator/freezers of varied volumes.

Eligibility Criteria:

- **Applicability:** Eligible for both new construction and retrofit.
- **Qualifying Efficiency Requirement:**
  - Must meet Energy Star® requirements

Required Documentation:

- Spec sheet
- Proof of purchase and installation

9.3 LED LIGHTING FOR REFRIGERATION CASES

Measure Description	Unit
LED Refrigerator Case Lighting	Door
	Linear Foot

- This incentive is available for replacing fluorescent or incandescent refrigerated case lighting with LED source illumination. Fluorescent lamps, ballasts and associated hardware are typically replaced with prefabricated LED light bars and LED driver units.

Eligibility Criteria:

- **Applicability**: Eligible for both new construction and retrofit.
- **Baseline Efficiency:** Fluorescent or incandescent refrigerated case lighting.
- **Qualifying Efficiency Requirement:**
  - Must be DLC listed
  - Lighting must be manufactured for use in coolers or freezers
  - Reach-in coolers: minimum light output of 100 lumens/ foot for center-mounted lights and at least 50 lumens/ foot for end-mounted lights
  - Open coolers: minimum light output of 100 lumens/foot
  - Minimum luminaire efficacy of 50 lumens/watt with a minimum CRI of 80
  - Maximum allowable color temperature is 5000K
  - Projected lifespan should be at least 50,000 hours
  - Luminaires should be warranted for a minimum of 5 years

Required Documentation:

- Spec sheet, DLC certification (optional)
- Proof of purchase and installation

Important Consideration: Cannot be combined with incentive for refrigeration savings due to light savings.

9.4 REFRIGERATION SAVINGS DUE TO LIGHTING SAVINGS

Measure Description		Unit
Refrigeration Savings due to Lighting Savings	-20-0˚F	Watts Reduced
	0-20˚F	
	20-40˚F	

- This incentive is available for the permanent reduction of energy usage due to a reduction in lighting wattage. Incentive is per watt reduced in qualifying lighting retrofit

Eligibility Criteria:

- **Applicability**: Eligible for both new construction and retrofit.
- **Baseline Efficiency:** Fluorescent or incandescent refrigerated case lighting.
- **Qualifying Efficiency Requirement:**
  - Must be refrigerated area containing perishable items and maintaining temperatures between -20-40F for 8760 annual hoursLighting must be manufactured for use in coolers or freezers
  - Must be combined with a qualifying lighting retrofit project that operates for a minimum of 4160 annual hours (see sections 1.5 and 1.6 for additional requirements)

Important Consideration: Cannot be combined with incentive for occupancy sensors for LED refrigeration case lighting or LED lighting for refrigeration cases

9.5 OCCUPANCY SENSORS FOR LED REFRIGERATION CASE LIGHTING

Measure Description	Unit
Occupancy Sensors for LED Refrigeration Case Lighting	Door

- This incentive is available for the installation of occupancy sensors for LED in refrigeration cases.

Eligibility Criteria:

- **Applicability:** Eligible for both new construction and retrofit.
- **Baseline Efficiency:** No existing controls.
- **Qualifying Efficiency Requirement:**
  - Occupancy sensors must cover at least two doors per sensor
  - LED refrigerated lighting must be at least 35 lumens/watt with a minimum CRI of 72
  - Product must have a minimum lifetime warranty of 3 years

Required Documentation:

- Spec sheet
- Proof of purchase and installation

Important Consideration: Cannot be combined with incentive for refrigeration savings due to light savings.

9.6 WALK-IN AND CASE COOLER/FREEZER ELECTRONICALLY COMMUTATED MOTOR (ECM)

Measure Description	Unit
Walk-in ECM replacing Shaded Pole	Unit
Walk-in ECM replacing Permanent Split Capacitor	
Cooler Case ECM replacing PSC or SP	
Cold Storage Evaporator ECM Fan Motor – Commercial	HP
ECM on Exterior Condenser Fans	

- This incentive is available for the replacement of existing standard efficiency shaded pole or permanent split capacitor evaporator motor with an ECM.

Eligibility Criteria:

- **Applicability:** Cold Storage Evaporator ECM Fan Motor – Commercial, ECM on Exterior Condenser Fans, and Walk-in ECM replacing Permanent Split Capacitor pole are eligible for both new construction and retrofit. Case Cooler ECM replacing PSC or SP and Walk-in ECM replacing Shaded Pole are eligible for retrofit only.
- **Baseline Efficiency:** Standard motor that runs at constant speed.
- **Qualifying Efficiency Requirement:**
  - Installation of an electronically commutated motor (ECM) or evaporator fan motor integrated with variable speed controls.
- **Exclusions:** Case Cooler ECM replacing PSC or SP and Walk-in ECM replacing Shaded Pole for new construction.

Required Documentation:

- Spec Sheets
- Proof of purchase and installation

Important Consideration: Targeted customers will be cold storage facilities including the commercial facilities such as food storage that will need to operate year-round.

9.7 FLOATING HEAD PRESSURE CONTROL

Measure Description	Unit
Floating Head Pressure Control	Ton

- This incentive is available for installing automatic controls to lower the condensing pressure at lower ambient temperatures in multiplex refrigeration systems.

Eligibility Criteria:

- **Applicability:** eligible for retrofit only.
- **Baseline Efficiency:** fixed head pressure.
- **Qualifying Efficiency Requirement:**
  - Controls must vary head pressure to adjust condensing temperature in relation to the outdoor air temperature.
  - The proposed control scheme must have a minimum saturated condensing temperature (SCT) programmed for the floating head pressure control of 70°F and include balanced-port expansion valves to replace existing constant pressure or manually controlled systems.
  - The expansion valve is a device used to meter the flow of liquid refrigerant entering the evaporator at a rate that matches the amount of refrigerant being boiled off in the evaporator.

Required Documentation:

- Proposed Control Scheme

9.8 ANTI-SWEAT HEATER CONTROL

Measure Description	Unit
Anti-Sweat Heater Control	Door

- This incentive is available for installing anti-sweat heater controls for display cases and reach-in refrigerators with glass doors. Technologies that can turn off anti-sweat heaters based on sensing condensation (on the inner glass pane) also qualify.

Eligibility Criteria:

- **Applicability:** eligible for retrofit only.
- **Baseline Efficiency:** no existing anti-sweat heater control.
- **Qualifying Efficiency Requirement:** installation of a control 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.

Required Documentation:

- Spec sheet

9.9 COOLER/FREEZER STRIP CURTAINS

Measure Description	Unit
Cooler Strip Curtain	Square Feet
Freezer Strip Curtain	

- This incentive is available for installing new strip curtains or plastic swinging doors on doorways of refrigerated spaces such as walk-in coolers, freezers, or refrigerated warehouses.

Eligibility Criteria:

- **Applicability:** eligible for retrofit only.
- **Baseline Efficiency:** no strip curtains.
- **Qualifying Efficiency Requirement:** opening between the strip curtain and bottom of doorway must be ≤ 1 inch.
- **Other Requirements:** strips must have an overlay > 1 inch.
- **Exclusions:** display cases and replacement of existing strip curtains that have remaining useful life (not missing any strips) or purchased within the last 4 years are not eligible.

Required Documentation:

- Spec sheet
- Proof of purchase and installation

9.10 COOLER/FREEZER DOOR GASKET SEALS

Measure Description	Unit
Door Gasket Seal	Linear Foot

- This incentive is available for replacing existing worn or damaged gaskets on doorways to walk-in or reach-in coolers and freezers.

Eligibility Criteria:

- **Applicability:** eligible for retrofit only.
- **Baseline Efficiency:** worn or damaged gaskets.
- **Qualifying Efficiency Requirement:** installation of new gasket seal.

Required Documentation:

- Spec sheet
- Proof of purchase and installation

9.11 NIGHT COVERS

Measure Description	Unit
Night Covers	Linear Foot

- This incentive is available for night covers installed on open refrigerated display cases in supermarkets and grocery stores.

Eligibility Criteria:

- **Applicability:** Eligible for both new construction and retrofit.
- **Baseline Efficiency:** No night covers installed.
- **Qualifying Efficiency Requirement:** The store must have a minimum of 6 non-operating hours per day to qualify.

Required Documentation:

- Spec sheet
- Proof of purchase and installation

Important Consideration: Applicant should consider using proper compressor capacity modulation and ensure the case manufacturer has no objections to use of night covers.

9.12 NEW REACH-IN REFRIGERATED CASE DOOR

Measure Description		Unit
New Reach-in Refrigerated Case Door	Medium Temp	Linear Foot
	Low Temp	Linear Foot

- This incentive is available for installing glass doors on display cases.

Eligibility Criteria:

- **Applicability:** eligible for retrofit only.
- **Baseline Efficiency:** open and vertical (or multi-deck) display cases.
- **Qualifying Efficiency Requirement:** installation of new vertical glass doors on existing open and vertical (or multi-deck) display cases or for replacing existing open and vertical (or multi-deck) display cases with new reach-in glass door display cases.
- **Other Requirements:**
  - The air temperature inside the cases must range from 0-32°F (low temp) or 33-50°F (medium temp).
  - The case length must be equal to, or shorter than, the original case.

Required Documentation:

- Spec sheet
- Proof of purchase and installation

9.13 REFRIGERATION AIR-SIDE ECONOMIZER

Measure Description	Unit
Refrigeration Air-Side Economizer	Unit

- This incentive is available for installing air-side economizers with controls for medium temperature (33-50°F) walk-in coolers.

Eligibility Criteria:

- **Applicability:** Eligible for both new construction and retrofit.
- **Baseline Efficiency:** No existing economizer.
- **Qualifying Efficiency Requirement:**
  - Walk-in coolers are at least 1000 sf.
  - Outside air and exhaust dampers must close automatically when the outside air temperature exceeds 35°F.
- **Other Requirements:**
  - Installation of new economizer equipment must not void the warranty or UL listing for any of the facility's pre-existing refrigeration equipment
  - Use of the air-side economizer must reduce the use of the refrigeration system's compressor
- **Exclusions:** freezer applications

Required Documentation:

- Spec sheet
- Proof of purchase and installation

9.14 PERMANENT MAGNET MOTORS

Measure Description	Unit
Permanent Magnet Motors, Low Temp Case, Replacing SP	Per Motor
Permanent Magnet Motors, Med Temp Case, Replacing ECM	
Permanent Magnet Motors, Low Temp Case, Replacing ECM	
Permanent Magnet Motors, Med Temp Walk-in, Replacing SP	
Permanent Magnet Motors, Low Temp Walk-in, Replacing SP	
Permanent Magnet Motors, Med Temp Walk-in, Replacing PSC	
Permanent Magnet Motors, Low Temp Walk-in, Replacing PSC	

- This incentive is available for replacing an existing, uncontrolled, and continuously operating standard efficiency shaded-pole, permanent split capacitor (PSC), and electronically commutated (EC) evaporator fan motors in reach-in refrigerated display cases as well as walk-in coolers and freezers.

Eligibility Criteria:

- **Applicability:** eligible for both new construction and retrofit
- **Baseline Efficiency:** no fan control operating continuously
- **Qualifying Efficiency Requirement:**
  - The new motor must have a minimum of 73% motor efficiency for reach-in case or 81% motor efficiency for walk-in.
  - The air temperature inside the cases must range from 0-32°F (low temp) or 33-50°F (medium temp)

Required Documentation:

- Spec sheet

9.15 AUTOMATIC DOOR CLOSERS FOR REFRIGERATED WALK-IN COOLERS/FREEZERS

Measure Description	Unit
Automatic Door Closers for Refrigerated Walk-in Coolers/Freezers	Unit

- This incentive is available for the installation of automatic door closers in refrigerated walk-in coolers/freezers.

Eligibility Criteria:

- **Applicability:** eligible for retrofit only.
- **Qualifying Efficiency Requirement:** doors must be opaque.

Required Documentation:

- Spec sheet
- Proof of purchase and installation

10.0 Commercial Kitchen Equipment

10.1 ENERGY STAR® STEAM COOKERS

Measure Description		Unit
Energy Star® Steam Cookers	3 Pan	Unit
	4 Pan	Unit
	5 Pan	Unit
	6 Pan	Unit

- This incentive is available for new or replacement Energy Star® steam cookers.

Eligibility Criteria:

- **Applicability:** Eligible for new construction or retrofit.
- **Qualifying Efficiency Requirement:** meets Energy Star® requirements.

Required Documentation:

- Spec sheet
- Proof of purchase and installation

10.2 ENERGY STAR® FRYERS

Measure Description	Unit
Energy Star® Fryers	Unit
	Unit
	Unit
	Unit

- This incentive is available for new or replacement Energy Star® fryers.

Eligibility Criteria:

- **Applicability:** Eligible for new construction or retrofit.
- **Qualifying Efficiency Requirement:** meets Energy Star® requirements.
- **Exclusions:**
  - Fuel switching applications
  - Used or rebuilt equipment

Required Documentation:

- Spec sheet

10.3 ENERGY STAR® GRIDDLE

Measure Description	Unit
Energy Star® Griddles	Unit

- This incentive is available for new or replacement Energy Star® griddles.

Eligibility Criteria:

- **Applicability:** Eligible for both new construction and retrofit.
- **Qualifying Efficiency Requirement:** Meets Energy Star® requirements.
- **Exclusions:**
  - Fuel switching applications
  - Used or rebuilt equipment

Required Documentation:

- Fuel switching applications
- Used or rebuilt equipment

10.4 ENERGY STAR® CONVECTION OVENS

Measure Description	Unit
Energy Star® Convection Oven	Unit

- This incentive is available for new or replacement Energy Star® convection oven.

Eligibility Criteria:

- **Applicability:** Eligible for both new construction and retrofit.
- **Qualifying Efficiency Requirement:** meets Energy Star® requirements.
- **Exclusions:**
  - Fuel switching applications
  - Used or rebuilt equipment

Required Documentation:

- Spec sheet
- Proof of purchase

10.5 COMBINATION OVENS

Measure Description	Unit
Combination Oven	Unit

- This incentive is available for new or replacement energy efficient electric combination ovens.

Eligibility Criteria:

- **Applicability:** eligible for new construction or retrofit.
- **Qualifying Efficiency Requirement:** new units must meet ASTM standards
- **Exclusions:**
  - Fuel switching applications
  - Used or rebuilt equipment

Required Documentation:

- Spec sheet
- Proof of purchase and installation

10.6 PRE-RINSE SPRAYERS

Measure Description	Unit
Pre-Rinse Sprayers	Unit

- This incentive is available for new or replacement pre-rinse sprayers.

Eligibility Criteria:

- **Applicability:** eligible for new construction or retrofit.
- **Qualifying Efficiency Requirement:** installation of a low-flow pre-rinse sprayer less than or equal to 1.6 gallons per minute.

Required Documentation:

- Spec sheet
- Proof of purchase and installation

10.7 SENSOR-CONTROLLED FOOD WRAPPER

Measure Description	Unit
Sensor controlled food wrapper	Door

- This incentive is available for occupancy-controlled food wrapper.

Eligibility Criteria:

- **Applicability:** Eligible for new construction or retrofit.
- **Qualifying Efficiency Requirement:**
  - Must have automated shutdown controls. On/off switches and timers are not eligible
  - Must be used at least 1,000 hours/year. Grocery stores should use department hours where the food wrapper is used
- **Exclusions:** food wrappers that are in continuous use would not qualify (i.e., packaging facility)Used or rebuilt equipment

Required Documentation:

- Spec sheet
- Proof of purchase

11.0 Office and Industrial Equipment

11.1 WELDERS – INVERTER STYLE

Measure Description	Unit
Welders, Inverter Style	Welder

- This incentive is available for replacing an existing transformer-rectifier power source welder with a new inverter-based power source welder.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects.
- **Baseline Efficiency:** Existing transformer-rectifier power source welder. Welding process must operate at least 2,000 annual hours. Welding process must be in "Arc Mode" for at least 15% of the total operating period.
- **Qualifying Efficiency Requirement:**
  - New welder must be inverter power source type.
  - A minimum of 7 continuous days of power monitoring (kW) required both before and after retrofit on at least one typical welder.

Required Documentation:

- Pre- and post-retrofit power monitoring data (minimum 7 consecutive days each).
- Spec sheet for new inverter welder
- Documentation of existing transformer-rectifier welder being replaced.
- Annual hours

11.2 PC NETWORK ENERGY MANAGEMENT CONTROLS

Measure Description	Unit
PC Network Energy Management Controls Replacing on Central Controls	PC

- This incentive is available for sophisticated IT environments that use centralized energy management systems to control multiple PCs from one central location. The system must go beyond simply activating energy-saving settings on operating systems and must implement network-level power policies.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects.
- **Baseline Efficiency:** PCs without centralized energy management or relying only on local OS-level energy-saving settings.
- **Qualifying Efficiency Requirement:**
  - Must control PCs and their attached monitors across a network.
  - Dynamically control PCs from a central location.
  - System must implement and enforce power policies (not just monitor settings).
  - Collect data over time and provide system-wide energy savings reporting.
- **Other Requirements:**
  - Must report the number of PCs controlled by the software.
  - Provide a report on a representative number of PCs to document potential savings.
  - Include certification that policies and procedures are in place to keep the software in use.
- **Exclusions:**
  - Laptops, thin clients, and other network devices.
  - Systems that only activate OS power management.

Required Documentation:

- Report on energy management system showing number of PCs controlled and energy savings tracking.

11.3 INJECTION MACHINES

Measure	Unit
Barrel Insulation - Plastic Injection/Extrusion Machine	Square Feet
Injection Molding Machine - Electric/Hydraulic Hybrid	Ton Clamping Cap
Injection Molding Machine - Full Electric (Servo Electric)	Ton Clamping Cap
VSD or Servo Hydraulic Plastic Injection Molder Machines	Ton

- This set of incentives supports energy-efficient upgrades and retrofits for plastics processing equipment, particularly injection molding machines. Incentives are offered for barrel insulation blankets, all-electric or hybrid injection molding machines, and variable speed drive (VSD) or servo hydraulic retrofits.

Under Insulation

Eligibility Criteria:

- Blankets must be installed only on equipment that previously had no insulation.
- Blankets must be applied only in manufacturer-recommended applications.

Required Documentation:

- Specification.
- Proof of replacement or production expansion.

All-Electric or Hybrid Injection Molding Machines

Eligibility Criteria:

- Applies to new installations or when replacing an existing hydraulic machine or as a new installation to expand production capacity
- Used equipment is not eligible
- Must be an all-electric or hybrid (servo hydraulic) machine.

Required Documentation:

- Specification.
- Proof of replacement or production expansion.

VSD or Servo Hydraulic Injection Molding Machines

Eligibility Criteria:

- Applies to new servo hydraulic injection molding machines or variable speed motor retrofits on existing hydraulic machines.
- Must operate at least 4,000 hours/year.
- Must achieve a production rate of at least 1,000 lbs. per machine ton annually.

Exclusions:

- Incentive cannot be combined with incentives for all-electric or hybrid machines.

Required Documentation:

- Operating hours verification
- Specification
- Production data demonstrating minimum throughput.

Important Consideration:
Incentive is based on equipment type:

- Per blanket installed for barrel insulation.
- Per machine tonnage

11.4 PNEUMATIC HAND TOOLS

Measure	Unit
Pneumatic Hand Tools Replaced by Electric Tools	Unit
Pneumatic Hand Tools Replaced by Cordless Tools	Unit

- This incentive is available for replacing existing pneumatic tools with electric tools in manufacturing facilities.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects.
- **Baseline Efficiency:** Existing pneumatic tool in a manufacturer setting.
- **Qualifying Efficiency Requirement:**
  - Qualified pneumatic tools must consume more than 15 CFM per tool.
  - New welder must be inverter power source type.
  - Tool must be permanently installed (portable or maintenance-only tools do not qualify).
  - Replacement electric tool must operate at least 400 annual hours.
- **Other Requirements:**
- Compressed air branch piping serving the replaced tool must be removed back to the main header.
- **Exclusions:** Portable or maintenance-only

Required Documentation:

- Spec sheet of both existing tool and replacement tool.
- Annual hours
- Proof of purchase and installation

11.5 FIBER LASER REPLACING CO2 LASER

Measure	Unit
Fiber Laser 2 Shift Operation	kW

- This incentive is available for replacing lower-efficiency CO_2 plasma lasers with fiber optic lasers for metal cutting applications.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction projects.
- **Baseline Efficiency:**
  - Lower efficiency CO_2 plasma laser system used for metal cutting where the material thickness is 0.2” (5 mm) or less.
  - 2,500 hours/year for replacement projects.
  - 4,000 hours/year for new construction installations.
  - Cutting equipment must be mechanically cooled year-round.

Required Documentation:

- Documentation confirming that the equipment is mechanically cooled year-round.
- Spec sheet
- Annual hours
- Proof of purchase and installation

11.6 ENGINE BLOCK HEATER CONTROLS

Measure	Unit
Engine Block Heater Controls	Heater

- This incentive is available for installing timers to allow engine block heaters to come on at a preset time in the night, rather than being on throughout the night.

Eligibility Criteria:

- **Applicability:** Eligible for new construction or retrofit.
- **Baseline Efficiency:** no existing timer.
- **Qualifying Efficiency Requirement:**
  - Timer must be outdoor-rated or cold weather resistant
  - Timer should be set to turn on heating no more than two hours prior to engine start-up time
  - Timer should contain a thermostat that turns off the heater if ambient air temperature is warmer than a pre-set temperature
  - Timer must be used on block heaters for agriculture applications
  - Timer must be UL-listed and rated for 15 amps or greater (or as needed for the heater)

Required Documentation:

- Spec sheet.
- Proof of purchase and installation

11.7 VENDING MACHINE CONTROLLERS

Measure Description	Unit
Cold Beverage Controller	Unit

- This incentive is available for the installation of controls on vending machines to when the surrounding area is unoccupied for 15 minutes or longer.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit and new construction.
- **Baseline Efficiency:** No existing occupancy sensor.
- **Qualifying Efficiency Requirement:**
  - Must include a passive infrared occupancy sensor to turn off lights and other vending machine systems
  - Snack miser must be installed on a non-refrigerated vending machine
- **Other Requirements:** cold beverage controller should power up every two hours to maintain product temperature and provide compressor protection

Required Documentation:

- Spec sheet

12.0 Agriculture

12.1 VFD ON AGRICULTURAL IRRIGATION SYSTEM

Measure Description	Unit
VFD on Agricultural Irrigation Systems	HP

- This incentive is available for installing variable frequency drives (VFD) on existing agricultural irrigation systems.

Eligibility Criteria:

- **Applicability:** Eligible for new construction or retrofit
- **Baseline Efficiency:** existing irrigation systems must have either:
  - Several center pivots served by one well, or
  - Have a corner arm center pivot where the water flow rate increases when the corner arms swing out towards the corners of the fields.
  - Other proposed VFD irrigation system applications will be reviewed on a case-by-case basis or may qualify for a custom pathway.
- **Qualifying Efficiency Requirement:**
  - Pumps must operate at least 500 annual hours
  - A minimum power monitoring (kW) of one complete pivot rotation cycle will be required after the installation.
- **Exclusions:**
  - Redundant or back-up pumps do not qualify

Required Documentation:

- Spec sheet
- Proof of purchase and installation

12.2 VSD ON MILK PUMP

Measure Description	Unit
Variable Speed Drive on Milk Pump with Existing Heat Exchanger	1,000 lbs Milk/Day
Variable Speed Drive on Milk Pump with New Heat Exchanger	1,000 lbs Milk/Day

- This incentive is available for the installation of variable speed drive (VSD) on milk pumps with new/existing heat exchanger.

Eligibility Criteria:

- **Applicability:** Eligible for new construction and retrofit
- **Baseline Efficiency:** Existing pumps must be constant speed drives with an existing heat exchanger
- **Qualifying Efficiency Requirement:**
  - Installation of VSD must accompany plate-type pre-cooler
  - Pre-cooler may be installed at the same time as the variable speed milk pump
  - Daily milk production must be ≥ 5,000 lbs/day
- **Exclusions:**
  - Redundant pumps do not qualify
  - Incentive cannot be combined with any other VFD incentive

Required Documentation:

- Spec sheet
- Proof of purchase and installation

12.3 SCROLL COMPRESSOR FOR DAIRY REFRIGERATION REPLACEMENT

Measure Description	Unit
Scroll Compressor for Dairy Refrigeration with Heat Exchanger	1,000 lbs Milk/Day
Scroll Compressor for Dairy Refrigeration without Heat Exchanger	1,000 lbs Milk/Day

- This incentive is available for replacing reciprocating units only.

Eligibility Criteria:

- **Applicability:** Both measures are eligible for retrofit. Scroll compressor for dairy refrigeration with heat exchanger is eligible for new construction.
- **Baseline Efficiency:** one milk pump system per farm. For multiple milk systems, incentive will be based on ratio of milk processed through each system
- **Qualifying Efficiency Requirement:** Scroll compressors must have a minimum of 10.5 EER.
- **Exclusions:** Redundant pumps do not qualify.

Required Documentation:

- Spec sheet
- Proof of purchase and installation

12.4 COLD STORAGE EVAPORATOR ECM FAN MOTOR

Measure Description	Unit
Cold Storage Evaporator ECM Fan Motor	Fan

- This incentive is available for cold storage evaporator ECM fan motor in agricultural applications. This includes cold storage for fruit and vegetable producers.

Eligibility Criteria:

- **Applicability:** Eligible for new construction or retrofit.
- **Baseline Efficiency:** Standard motor that runs at constant speed.
- **Qualifying Efficiency Requirement:** Installation of an electronically commutated motor (ECM) or evaporator fan motor integrated with variable speed controls.

Required Documentation:

- Spec sheet
- Proof of purchase and installation

12.5 VFD ON AGRICULTURAL FANS OR PUMPS

Measure Description		Unit
Fans	Operating 750-2,000 hours/year	HP
	Operating > 2,000 hours/year	
Pumps	Operating 750-2,000 hours/year	
	Operating > 2,000 hours/year	

- This incentive is available for VFDs installed on existing or new applications of agricultural fans and pumps.

Eligibility Criteria:

- **Applicability:** Eligible for new construction or retrofit.
- **Baseline Efficiency:** Existing fans and pumps must run at constant speed.
- **Qualifying Efficiency Requirement:**
  - The VFD speed must be automatically controlled by humidity, temperature, differential pressure, flow, or other variable signal
  - Motors must be ≤ 50 HP. Motors > 50 HP may qualify as a custom measure
  - Motor must operate a minimum of 750 annual hours
- **Other Requirements:**
  - The installation of a VFD must accompany the permanent removal or disable of any throttling devices such as inlet vanes, bypass dampers, bypass valves, or throttling valves
- **Exclusions:**
  - Redundant or backup units do not qualify
  - Replacement of existing VFDs does not qualify

Required Documentation:

- Explanation of the following must be submitted with the application:
  - What the motor is used for
  - Motor's annual run time
  - How the motor is currently controlled
  - Proposed motor VFD control method
- Proof of purchase and installation

Important Consideration: VFDs installed on irrigations or HVAC systems do not qualify for this incentive but may qualify for a different prescriptive measure or as a custom measure.

12.6 LOW ENERGY LIVESTOCK WATERER

Measure Description	Unit
Low Energy Livestock Waterer	Waterer

- This incentive is available for the installation of low energy livestock waterer.

Eligibility Criteria:

- **Applicability:** Eligible for new construction and retrofit
- **Baseline Efficiency:** Existing equipment must have heating elements.
- **Qualifying Efficiency Requirement:**
  - New waterer must have a minimum of 2-inch insulation
  - Waterers with heaters must be electrically heated
  - A thermostat is required on units with heating elements that are > 250W
  - Replace open waterer with sinking or floating water heater
  - New zero-energy waterer must serve same herd size as existing waterer being replaced and contain no heating elements

Required Documentation:

- Spec sheet.
- Proof of purchase and installation

12.7 GRAIN STORAGE TEMPERATURE AND MOISTURE MANAGEMENT CONTROLLER

Measure Description	Unit
Grain Storage Temperature and Moisture Management Controller	Fan HP

- This incentive is available for the incorporation of a temperature and moisture management controller for constant speed aeration fans used in grain storage.

Eligibility Criteria:

- **Applicability:** Eligible for new construction and retrofit
- **Baseline Efficiency:** The uncontrolled aeration fan must operate more than 1,500 hours from the beginning of harvest season or more than 800 hours from the middle of harvest season and must be sized to provide 0.1-0.2 CFM/bushel
- **Qualifying Efficiency Requirement:**
  - Aeration fan should be disabled when the temperature of the grain falls below 40°F, and/or the moisture content is below an acceptable level

Required Documentation:

- Spec sheet
- Proof of purchase and installation
- Photo of controller at setpoint

12.8 FAN THERMOSTAT CONTROLLER

Measure Description	Unit
Fan Thermostat Controller	Fan

- This incentive is available for the incorporation of a thermostatic controller for ventilation fans used in the livestock industry.

Eligibility Criteria:

- **Applicability:** Eligible for new construction or retrofit.
- **Baseline Efficiency:** Fan motor is manually controlled
- **Qualifying Efficiency Requirement:**
  - Ventilation fan should be disabled when the temperature is below 65°F.
  - Fan used to modulate temperature must operate more than 4,000 hours per year at temperatures above 65°F.
  - Fan motor must be greater than 0.5 HP.

Required Documentation:

- Spec sheet
- Proof of purchase and installation
- Photo of controller at setpoint

12.9 REFRIGERATION AIR-SIDE ECONOMIZER

Measure Description	Unit
Refrigeration Air-Side Economizer	Ton

- This incentive is available for installing air-side economizers with controls for medium temperature (33-50°F) walk-in coolers that are at least 1,000 sf.

Eligibility Criteria:

- **Applicability:** Eligible for new construction or retrofit.
- **Baseline Efficiency:** No existing economizer
- **Qualifying Efficiency Requirement:**
  - Use of the air-side economizer must reduce the use of the refrigeration system's compressor
  - Outside air and exhaust dampers must close automatically when the outside air temperature exceeds 35°F
- **Exclusions:** freezer applications.

Required Documentation:

- Spec sheet
- Proof of purchase and installation

12.10 DEHUMIDIFICATION FOR INDOOR HORTICULTURE FACILITIES

Measure Description	Unit
> 155 pints/day	Pints per day

- This incentive is available for installing air-side economizers with controls for medium temperature (33-50°F) walk-in coolers that are at least 1,000 sf.

Eligibility Criteria:

- **Applicability:** Eligible for new construction or retrofit.
- **Qualifying Efficiency Requirement:**
  - Energy factor ≥ 2.8 L/kWh
  - Dehumidifiers must be installed in an indoor cannabis grow facility that operates year-round
  - If replacing an existing unit, proposed should be the same size
- **Exclusions:** Greenhouse installations do not qualify

Required Documentation:

- Spec sheet
- Proof of purchase and installation

12.11 HVAC REDUCTION IN GROW ROOMS

Measure Description	Unit
Facilities operating < 6,570 hours	Watts reduced
Facilities operating ≥ 6,570 hours	

- This incentive is available for HVAC savings resulting from LED lighting installed in year-round operational and mechanically cooled indoor cannabis grow rooms.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit or certain new construction projects and is only applicable when paired with an LED Grow Lights measure.
- **Baseline Efficiency:** Existing or new mechanical system in a fully indoor cannabis grow rom, prior to installation of LED lights
- **Qualifying Efficiency Requirement:** Must be paired with installation of LED lights to be considered
- **Other Requirements:** Lights must be operational a minimum of 4,000 hours
- **Exclusions:** Greenhouse installations do not qualify

Required Documentation:

- Spec sheets for new efficient LEDS
- Nameplate photos or verification that grow space is mechanically cooled
- Verification that operation is fully indoors and not a greenhouse

Important Consideration:

- LED to LED projects will not be able to claim HVAC savings
- Spaces with free cooling are not eligible for this measure
- For Facilities operating > 6,570 hours, apply through custom-prescriptive route

12.12 LED GROW LIGHTS RETROFIT

Measure Description		Unit
LED Grow Light	> 4,380 hours	Watts Reduced
	> 6,570 hours	
	8,760 hours	

- This incentive is available for replacing existing lighting systems with high-efficiency LED grow lights systems.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects only.
- **Baseline Efficiency:** HID and fluorescent lighting
- **Qualifying Efficiency Requirement:**
  - LED lamps should be listed as an approved product on the Design Lights Consortium® Horticultural Lighting Qualified Products List (DLC Hort version 3.0/4.0) OR meet the following performance criteria:
    - 3rd party tested and UL Listed
    - Power factor (PF) ≥ 0.90
    - Lifetime (hours): L70 ≥ 50,000 or L90 ≥ 36,000
    - Photosynthetic photon efficacy (PPE) ≥ 2.10 µmol x J-1
    - Minimum warranty of 5 years
  - Grow lights must operate a minimum of 4,380 hours

Required Documentation:

- If upgrading from LED to more efficient LED, apply through custom-prescriptive route.

12.13 LED GROW LIGHTS FOR CANNABIS – NEW CONSTRUCTION

Measure Description		Unit
Commercial LED Grow Lights for Cannabis	Flowering Room	Watts Installed
	Vegetative Room	Watts Installed
	Seedling Room	Watts Installed

- This incentive is designed for applications where there are no existing grow houses in place. This pathway is also applicable for increases in PPFD from existing equipment.

Eligibility Criteria:

- **Applicability:** Eligible for new construction projects.
- **Baseline Efficiency:** HID and Fluorescent lighting
- **Qualifying Efficiency Requirement:**
  - LED lamps should be listed as an approved product on the Design Lights Consortium® Horticultural Lighting Qualified Products List (DLC Hort version 3.0/4.0) OR meet the following performance criteria:
    - 3rd party tested and UL Listed
    - Power factor (PF) ≥ 0.90
    - Lifetime (hours): L70 ≥ 50,000 or L90 ≥ 36,000
    - Photosynthetic photon efficacy (PPE) ≥ 2.10 µmol x J-1
    - Minimum warranty of 5 years
  - Flowering rooms must operate a minimum of 4,380 hours
  - Vegetative rooms must operate a minimum of 6,570 hours
  - Seedling rooms must operate a minimum of 8,760 hours

13.0 Operations and Maintenance

13.1 CHILLER TUNE-UP

Measure Description	Unit
Chiller Tune-Up	Ton

- This incentive supports the performance optimization of existing chillers through a comprehensive maintenance tune-up.

Eligibility Criteria:

- **Applicability:**
  - Applicable to air- or water-cooled chillers
  - Tune-up must be performed on existing, operational chillers
- **Baseline Efficiency:** Existing chiller operating without recent tuning
- **Required Tune-Up Scope and Documentation:** A completed Chiller Tune-Up Checklist must be submitted with the incentive application and include the following:
  - Tune-up date
  - Chiller manufacturer
  - Chiller model number
  - Chiller type (air-cooled or water-cooled)
  - Equipped with economizer (Yes/No)

The following components must be inspected and cleaned or replaced as necessary, with results documented on the checklist:

- Evaporator and condenser coils/tubes (clean as needed)
- Filter (clean as needed)
- Cooling tower for scale or buildup
- Belt (replace as needed)
- Contactor condition (replace as needed)
- Crankcase heater
- Economizer operation

- **Exclusions:**
  - Decommissioned or redundant chillers

Required Documentation:

- Applicants must record and submit the specified operational data before and after the tune-up, as outlined in the program's *Table 6.*

Table 6: Chiller Tune-up Tests

Size Category		PRE	POST
Head Pressure		psig	psig
Compressor Amps Draw	Phase 1	A	A
	Phase 2	A	A
	Phase 3	A	A
Liquid Line Temperature		°F	°F
SubCooling Temperature		°F	°F
SuperHeating Temperature		°F	°F

Table 6: Chiller Tune-up Tests (Continued)

Size Category	PRE	POST
Chilled Water Temperature	°F	°F
Condenser Temperature	°F	°F
Suction Pressure	psig	psig
Suction Temperature	°F	°F
Condenser Fan Amps	A	A
Refrigerant Pressure	psig	psig

13.2 CONDENSER COIL CLEANING

Measure Description	Unit
Condensing Coil Cleaning – Refrigeration System	Ton

- This incentive is available for cleaning condenser coil in commercial applications.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit only.
- **Baseline Efficiency:** Existing coil must have an indication of reduced airflow or need cleaning.
- **Qualifying Efficiency Requirement:** Coil cleaning should not have been done for at least a three-year period.

Required Documentation:

- Photos before and after cleaning

13.3 BUILDING OPERATOR CERTIFICATION

Measure Description	Unit
Building Operator Certification	Participant

- This incentive is available for acquiring a building operator certification per participant per 195,000 sqft of conditioned space.

Eligibility Criteria:

- **Applicability:** Eligible for existing buildings.
- **Baseline Efficiency:** No staff energy efficiency training
- **Qualifying Efficiency Requirement:** Must complete a BOC course from a certified BOC professional.
- **Exclusions:** Must not have participated in previous training

Required Documentation:

- Certification
- List of courses

Important Consideration:

- Must apply through custom-prescriptive route.