



SEMCO ENERGY Gas Company

2025 Natural Gas Rebate Catalog

**Commercial and Industrial
Energy Efficiency Program**

SEMCO
Energy Waste Reduction
 Save Energy. Save Money.

Terms and Conditions

These Standard Terms and Conditions for Participating Customers and the Customer Participation Agreement (collectively, the "Agreement") are made and entered into by and between CLEAResult Consulting Inc., a Texas corporation and/or an affiliate thereof ("CLEAResult"), and Customer for the purpose of evaluating and installing energy efficient measures ("EEM") under the Program funded by SEMCO ENERGY Gas Company ("Sponsor"). CLEAResult and Customer may be referred to in this Agreement individually as a "Party" and collectively as the "Parties." The Parties acknowledge and agree that the state regulatory governing body (the "MPSC"), Sponsor, and Contractor are third-party beneficiaries of this Agreement. In consideration of the mutual covenants and agreements set forth below, the adequacy and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

1. ACCESS AND PARTICIPATION. Customer agrees to support CLEAResult and Contractor and assign a representative to facilitate services provided under this Agreement. Customer acknowledges its intent to install EEM using Program rebates. Customer agrees to allow CLEAResult and Contractor to access its facilities, energy use, and cost information, including information and data from Sponsor, for the purposes of implementing this Agreement. If Customer is a tenant, Customer represents that by signing this document they have obtained the property owner's permission to install EEM under this Agreement. Customer agrees not to use the name or identifying characteristics of Sponsor or its contractors for any advertising, sales promotion, or other publicity of any kind. Customer also confirms that it has not and will not receive rebates or services for any EEMs installed under this Program from another program funded by Sponsor. The Program may be modified or terminated without prior notice and this Agreement is subject to modifications by Sponsor in its sole discretion.

2. ELIGIBILITY. Sponsor determines eligibility of Customers at its sole discretion. CLEAResult may request verification of eligibility requirements at any time during the Program period.

3. REBATE PAYMENT. Customer acknowledges that rebates will be paid by Sponsor only if: (a) Customer(s) and installed EEM(s) or services meet the Program eligibility requirements and the requirements outlined by the Program; (b) EEMs are installed in eligible project sites; and (c) EEMs are installed at a project site that has not received rebates from any other of Sponsor's energy efficiency programs for the same EEM(s). Customer understands that Sponsor, in its sole discretion, may withhold rebate payments committed to Customer if a project site is proven ineligible or a project otherwise does not comply with the requirements set forth by the Program. Rebate amounts may not exceed 75% of the EEM, including materials, external labor, permits, equipment rental, or disposal. Custom rebates may not be provided for projects with less than a 1-year simple payback or greater than an 8-year simple payback. Rebates are based on energy savings and may be limited by the annual customer cap. Rebates are subject to available Program funding and only one rebate will be granted for each project. Customer remains solely responsible for any tax liability related to the EEM and the rebate payment. The Program 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 rebate, whichever is less. If the energy savings are not provided, the facility in which the installed projects are located closes or ceases operation within three (3) years from receipt of rebate, or Sponsor ceases to be the energy provider for the facility during the three (3) years, a prorated amount of the rebate will be refunded.

4. AUDITING, MONITORING, AND VERIFICATION. Customer also agrees to allow CLEAResult, Contractor, Sponsor, and the MPSC to access its facilities for the purpose of confirming Customer's participation in the Program, inspecting installed EEM, and verifying the energy savings achieved through the Program. Customer agrees to cooperate with CLEAResult, Contractor, Sponsor, and the MPSC, as necessary. Customer also agrees to remedy any issue arising from auditing and

monitoring, at its expense, within the timeframe provided by the Program. Customer understands that any rebates may be withheld if Customer refuses to participate in any required verification within a reasonable period. Customer verifies that all EEM is installed in accordance with all applicable federal, state, and local laws and manufacturer's specifications.

5. CONFIDENTIALITY. CLEAResult shall keep Customer information confidential unless otherwise required by law or this Agreement. Only the Contractor, Sponsor, and the MPSC shall be granted access to Customer data as needed or required. CLEAResult will not use the name or identifying characteristics of Customer in advertising sales promotion or other publicity without Customer's written approval. Customer agrees Sponsor may utilize Customer's information in preparing reports and documentation concerning the Program and that such information, aggregated with other data, may be provided to third parties, including the MPSC, as permitted by law.

6. NO WARRANTY. CLEAResult, Sponsor, and the MPSC make no representations, endorsements, or warranties and assume no liability with respect to quality, safety, performance, design, energy savings, or other aspect of any EEM installed pursuant to this agreement and expressly disclaim any such representation, warranty, or liability, including but not limited to the implied warranties of merchantability, fitness for a particular purpose, and noninfringement. Nothing in this agreement shall be construed to create any duty to, any standard of care with reference to, or any liability to any third party. Neither the MPSC, Sponsor, nor CLEAResult shall be responsible for costs or corrections of conditions already existing in the facilities inspected which fail to comply with applicable laws and regulations.

7. INDEMNIFICATION; LIMIT ON LIABILITY. Customer agrees to indemnify, defend, and hold harmless the MPSC, Sponsor, and CLEAResult against all loss, damages, costs, including attorney fees and liability arising from any claims related to any products installed or services performed during the installation or maintenance of EEM. Neither the MPSC, Sponsor, CLEAResult, nor customer shall be liable to each other for any incidental, special, indirect, or consequential damages related to this Agreement. Customer releases Sponsor from any and all claims it may have related to the EEM, the Program, and/or this Agreement.

8. MISCELLANEOUS. This Agreement shall be governed by and construed under the laws of the State of Michigan, without regard to conflict of law rules. The Parties agree that all actions, disputes, claims, and controversies arising out of or relating to this Agreement or the work performed hereunder will be subject to binding arbitration administered in the county where the Customer is located by the American Arbitration Association under its Commercial Arbitration Rules and judgment on the award may be entered in any court having jurisdiction. Customer shall not assign, delegate, or subcontract this Agreement or its duties thereunder, in whole or in part, voluntarily or involuntarily (including a transfer to a receiver or bankruptcy estate) without the prior written permission of CLEAResult. CLEAResult may assign its rights and delegate its duties under this Agreement to any third party at any time without Customer's consent. If any provision of this Agreement is invalid or unenforceable in any jurisdiction, the other provisions in this Agreement shall remain in full force and effect in such jurisdiction and shall be liberally construed in order to effectuate the purpose and intent of this Agreement. The invalidity or unenforceability of any provision of this Agreement in any jurisdiction shall not affect the validity or enforceability of any such provision in any other jurisdiction. The failure of either Party to enforce strict performance by the other of any provision of this Agreement, or to exercise any right available to the Party under this Agreement, shall not be construed as a waiver of such Party's right to enforce strict performance in the same or any other instance. Sections 1 and 4 through 7 shall survive the term of this Agreement.

Program Measures Requirements

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2025 Natural Gas Measure Specifications

1.0 Heating & Ventilation

1.1 High-efficiency HVAC boiler

Measure Description	Size (MBH)	Baseline Efficiency	High Efficiency	Unit
High-Efficiency HVAC Boiler ≥90% Efficiency	Small <300	84% AFUE	90% AFUE	MBH Input
	Medium 300–2,500	80% Et	90% Et	MBH Input
	Large >2,500	82% Ec	90% Ec	MBH Input
HVAC Steam Boiler	≤300	82% AFUE	82.5% AFUE	MBH Input
	>300	79% Et	82% Et	MBH Input
	Natural draft >300	77% Et	82% Et	MBH Input

Description:

This incentive is available for the replacement of existing boilers or the installation of new high-efficiency hydronic condensing boilers used for space heating purposes only.

Eligibility Criteria:

- Applicability: Eligible for both boiler replacement and new construction projects.
- Baseline Efficiency: Existing boilers must not exceed the specified baseline (as shown in the table above) efficiency value.
- Qualifying Efficiency Requirement: New boilers must meet or exceed the specified high-efficiency value (as shown in the table above).
- Exclusions:
 - Redundant or purchased for backup boilers.
- Other requirements:
 - Must comply with ANSI Standard Z21.13, considering supply and return water temperatures.

Required Documentation:

- Technical specifications of both existing and new boilers. If the specifications of the existing boilers are not available, the efficiency must be confirmed.

1.2 High-efficiency HVAC steam or process boiler

Measure Description	Unit
Process Steam Boiler	MBH
Process Hydronic Boiler	MBH

Description:

This incentive is available for the replacement of existing boilers or the installation of new high-efficiency process boilers.

Eligibility Criteria:

- Applicability: Eligible for both boiler replacement and new construction projects.
- Baseline Efficiency: 80% or lower.
- Qualifying Efficiency Requirement: Both new steam boilers and hydronic boilers must have at least 82% combustion efficiency.
- Exclusions:
 - Redundant or backup boilers.
 - Direct contact water heaters.
 - Boilers used for space heating, domestic hot water, and heating pools or spas.
- Other requirements: Require water temperature below 140°F for effective flue gas condensation.

Required Documentation:

- Boiler specifications.

1.3 High-efficiency furnace / RTU

Measure Description	Unit
High-Efficiency Furnace ≥92% Efficiency	MBH
High-Efficiency Furnace ≥95% Efficiency	MBH
HVAC Condensing Roof Top Unit (RTU)	MBH

Description:

This incentive is available for the upgrade from standard efficiency furnaces/RTUs to high-efficiency models for space heating only.

Eligibility Criteria:

- Applicability: Eligible for both equipment replacement and new construction projects.
- Baseline Efficiency: 81% Annual Fuel Utilization Efficiency (AFUE) or lower.
- Qualifying Efficiency Requirement: The new high-efficiency furnace or RTU must meet or exceed a specific AFUE efficiency level as outlined in the referenced table above.
- Exclusions:
 - Redundant equipment or equipment with low annual runtime hours are not eligible.

Required Documentation:

- Equipment specifications of both existing and new. If the specifications of the existing are not available, the efficiency must be confirmed.

1.4 Infrared heaters

Measure Description	Unit
Infrared Heaters	MBH Input

Description:

This incentive is available for infrared heaters used for indoor space heating only.

Eligibility Criteria:

- **Applicability:** Eligible for high and low-intensity infrared heaters for equipment replacement and new construction projects.
- **Baseline Efficiency:** Standard gas unit heaters with 80% efficiency.
- **Exclusions:**
 - Replacement of an existing infrared heater at its end-of-life.
 - Direct-fired infrared heaters (see 'Important Consideration' below)
- **Other requirements:** The space setpoint temperature for the new infrared heating system shall be at least 10°F lower than the existing or designed setpoint temperatures for unit heaters.

Required Documentation:

- Equipment specifications.
- Written confirmation detailing the existing and proposed setpoint temperatures, evidencing a minimum of 10°F reduction.

Important Consideration:

- Direct-fired infrared heaters are only suitable for custom projects and are not available for new construction.

1.5 Pool heaters—high-efficiency

Measure Description	Unit
High-Efficiency Pool Heaters	MBH Input

Description:

This incentive is available for high-efficiency gas pool heaters.

Eligibility Criteria:

- **Applicability:** Suitable for both replacement of existing equipment and installations in new construction projects.
- **Baseline Efficiency:** Standard Efficiency Pool Heater with 78% Efficiency.
- **Qualifying Efficiency Requirement:** New heaters must have a minimum thermal efficiency of 84%.
- **Other requirements:**
 - Eligible heaters must be gas-fired with a capacity ranging from 500 MBH to 2,000 MBH.
 - Heaters must include an on/off switch and must not use a pilot light for operation.
 - Must be an indoor pool.
- **Exclusions:**
 - Redundant or backup heaters.
 - Heaters intended for use as a backup to solar water heating systems are not eligible.

Required Documentation:

- Equipment specifications.

2.0 Boiler Controls & Efficiency Improvement

2.1 Modulating boiler control

Measure Description	Unit	
Modulating Boiler Control	Process	MBH Input
	HVAC	MBH Input

Description:

- This incentive is available for the additional modulating (turndown) controls on boilers.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit, boiler replacement, and new construction projects.
- **Qualifying Efficiency Requirement:** Boilers must have a minimum turndown ratio of 5:1.
- **Exclusions:**
 - Redundant boilers or boilers with low annual runtime hours.
 - Boilers primarily used for domestic hot water or pool or spa.
- **Other requirements:**
 - Process boilers must operate year-round, and HVAC boilers are utilized during the only heating season.
 - University and hospital boilers, even those providing space heating, are considered process boilers.
 - Existing boilers must currently operate on/off with no modulation.

Required Documentation:

- Boiler specifications.
- It is recommended to collect boiler loading data documenting year-round operation and typical part loading throughout the year for university and hospital boilers.
- Incentive is based on boiler input capacity.
- Available for retrofit, boiler replacement, or as part of new construction.
- Process boiler must run year-round. HVAC boilers will run only during the heating season.
- University and hospital boilers are considered process boilers even if they provide space heating (per MEMD white paper).
- Boilers primarily used for domestic hot water or pool or spa use are not eligible.
- Existing boilers must be on/off with no modulation.
- Redundant boilers do not qualify.

2.2 Boiler water reset control

Measure Description	Unit
Boiler Water Reset Control	MBH Input
RCx Boiler Reset Control	MBH Input

Description:

- This incentive is available for the addition of a supply temperature setpoint reset to natural gas boilers, allowing the boiler supply temperature setpoint to decrease by at least 20°F based on heating demand, such as zone demand or outside air (OA) temperature. There is also a Retro-commissioning (RCx) option for existing boilers with unused reset capabilities to optimize their operation according to the same criteria.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects.
- **Baseline:** The existing boiler must have a fixed supply temperature setpoint without the capability to adjust based on heating demand or outdoor temperature (except for the RCx option).
- **Exclusions:**
 - Redundant boilers.
 - New Construction applications.

Required Documentation:

- Boiler input capacity, such as a nameplate picture and boiler specifications.
- HVAC control documentation: BAS graphic screenshots, control programming, sequence of operation, functional testing documentation. Confirm existing control: Fixed boiler setpoint.
- RCx option proof: Show reset control not functioning as described. (e.g., the setpoint may reset, but the supply temperature isn't controlled accordingly).
- Post-implementation evidence: Boiler setpoint reset based on heating demand or outside air temperature. Requirement: Setpoint decreases by $\geq 20^{\circ}\text{F}$ during reduced heating demand. Independent variable specification: Zone demand, outside air temperature. Example: Initial control fixed setpoint 180°F, minimum reset temperature $\leq 160^{\circ}\text{F}$.

Important Consideration:

- RCx option: Incentive only available every 15 years

2.3 Oxygen trim control

Measure Description		Unit
Oxygen Trim Control	Process (Linkageless Controls)	MBH Input
	HVAC (Linkageless Controls)	MBH Input
	Process (Linkageless Controls)	MBH Input
	HVAC (Linkageless Controls)	MBH Input

Description:

This incentive is available for the installation of oxygen trim controls, also known as oxygen burner controls. These controls measure oxygen levels and adjust air and fuel intake levels accordingly to maximize combustion efficiency.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit, equipment replacement, and new construction projects.
- **Baseline Efficiency:** No O2 trim control.
- **Exclusions:**
 - Redundant boilers.
 - Oxygen controls required by EPA guidelines.
 - Boilers primarily used for domestic hot water or pool or spa.
- **Other requirements:**
 - Process boilers must operate year-round, and HVAC boilers are utilized only during the heating season.
 - University and hospital boilers, even those providing space heating, are considered process boilers.
 - Existing boilers must currently operate on/off with no modulation.

Required Documentation:

- Boiler input capacity verification (e.g., nameplate, specs).
- It is recommended to collect boiler loading data documenting year-round operation and typical part loading throughout the year for university and hospital boilers. Also, to prove year-round operation.

2.4 Linkageless boiler controls

Measure Description		Unit
Linkageless Boiler Controls	Process	MBH Input
	HVAC	MBH Input

Description:

This incentive is available for replacing boiler linkage controls with linkageless controls.

Eligibility Criteria:

- **Applicability:** Eligible for existing boiler retrofit, new boilers, and new construction.
- **Qualifying Efficiency Requirement:** The replacement of existing linkage controls with linkageless controls
- **Exclusions:**
 - Redundant boilers.
 - Boilers primarily used for domestic hot water or pool or spa.
 - New construction on HVAC boilers.

- **Other requirements:**
 - Process boilers must operate year-round, and HVAC boilers are utilized during only the heating season (are limited to weather-sensitive measures).
 - University and hospital boilers, even those providing space heating, are considered process boilers.
 - Existing boilers must currently operate on/off with no modulation.

Required Documentation:

- Boiler specifications.
- It is recommended to collect boiler loading data documenting year-round operation and typical part loading throughout the year for university and hospital boilers.

2.5 Optimized boiler plant sequencing

Measure Description		Unit
Optimized Boiler Plant Sequencing	Process	MBH Input
	HVAC	MBH Input

Description:

This incentive is available for the installation of sequence controls on both existing boilers and new boilers equipped with built-in controls.

Eligibility Criteria:

- **Applicability:** Eligible for heating systems equipped with at least two boilers that are currently isolated and operate in parallel piping systems.
- **Qualifying Efficiency Requirement:** Enabled sequence controls.
- **Exclusions:**
 - Redundant boilers.
- **Other requirements:**
 - Boilers must be capable of being sequenced and staged, both enabled and disabled.
 - Must ensure the hydronic flow is stopped within fifteen minutes of a boiler's deactivation.
 - Enable and disable boilers in a manner that optimizes their operation, adhering to the manufacturer's recommendations.

Required Documentation:

- Documents presenting the new control sequence.
- Boiler specifications.
- Nominal unit ratings (MBH) for all boilers involved in the project.

2.6 Boiler stack economizers

Measure Description	Stack Temp Decrease	Unit
Boiler Stack Economizer – HVAC Boilers	80°F	MBH Input
	120°F	MBH Input
	200°F	MBH Input
Boiler Stack Economizer – Process Boilers	80°F	MBH Input
	120°F	MBH Input
	200°F	MBH Input

Description:

This incentive is available for the addition of a stack economizer to the exhaust flue stack of both existing and new boilers to recover waste heat.

Eligibility Criteria:

- Applicability: Eligible for retrofit projects and new constructions, and for traditional (non-condensing) and condensing stack economizers.
- Qualifying Efficiency Requirement: The installation of a stack economizer.
- Exclusions:
 - Redundant boilers.
 - Stack economizers installed on boilers primarily used for domestic hot water or pool or spa.
- Other requirements: University and hospital boilers, even those providing space heating, are considered process boilers.

Required Documentation:

- Boiler specifications.
- Confirmation of reduction in exhaust flue temperature through BMS or boiler control screen.

2.7 Automatic steam boiler blowdown

Measure Description	Unit
Automatic Steam Boiler Blowdown	Annual Gallons Reduced

Description:

This incentive is available for the conversion from manual to automatic blowdown controls for steam boilers.

Eligibility Criteria:

- Applicability: Eligible for retrofit projects for steam boilers.
- Baseline Efficiency: The existing manual blowdown system.
- Qualifying Efficiency Requirement: The installation must transition from manual to automatic blowdown controls without compromising the steam boiler's water quality or leading to scaling.
- Exclusions:
 - Redundant boilers.
 - Simple changes in flow rate without significant capital expenditure, such as system modifications, changes in chemical treatment, or blowdown reductions resulting from improved condensate recovery.

Required Documentation:

- Written or electronic logs of make-up water usage for one month prior to and one month following the installation of automatic blowdown controls.

2.8 Variable frequency drives (VFD) on secondary CHW pumps

Measure Description	Unit
VFD on Secondary CHW Pump	CHW Pump HP

Description:

This incentive is available for the installation of new Variable Frequency Drives (VFDs) on existing HVAC.

Eligibility Criteria:

- Applicability: Eligible for retrofit projects only. Namely, the installation of new VFDs on existing HVAC pumps.
- Qualifying Efficiency Requirement: The VFD must be capable of being automatically controlled by differential pressure, flow, temperature, or other variable signals. (This ensures that the pump's operation is optimized based on real-time demand, leading to energy savings).
- Exclusions:
 - Redundant or backup units.
 - New construction projects where the pump size is 10HP or more (as mandated by code – ASHRAE 90.1.2013).
 - Replacement of existing VFDs.
- Other requirements: The installation must also include the permanent removal or disabling of any mechanical flow control devices such as inlet vanes, bypass dampers, bypass valves, or throttling valves, to ensure the full benefits of VFD control are realized.

Required Documentation:

- Proof of purchase and installation of the VFD
- Evidence of the removal or disabling of mechanical flow control devices
- Specifications of the controlled pump.

2.9 Process ventilation reduction

Measure Description	Unit
Process Ventilation Reduction	CFM Reduced

Description:

This incentive is available for reducing the amount of outdoor air ventilated in manufacturing spaces.

Eligibility Criteria:

- Applicability: Eligible for retrofit projects.
- Qualifying Efficiency Requirement: Reductions in ventilation rates must be evaluated and authorized by a professional engineer licensed in Michigan or a certified industrial hygienist to ensure compliance with indoor air quality standards and regulations.
- Exclusions:
 - New construction projects.
 - Significant operational changes, such as converting a factory to a warehouse.

Required Documentation:

- Verification of seasonal space heating.

3.0 Energy & Heat Recovery

3.1 Total Energy Recovery Ventilation (ERV)

Measure Description	Unit	
Total ERV – Enthalpy Wheel	Add-on	Ventilation CFM
	Built-in	Ventilation CFM
Sensible (Flat Plate) ERV	Add-on	Ventilation CFM
	Built-in	Ventilation CFM

Description:

This incentive is available for the installation of heat exchangers to reclaim waste energy from exhaust air streams, transferring it to outside makeup air streams before mechanical conditioning.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects, equipment replacement, or new construction installations (if not mandated codes).
- **Baseline Efficiency:** No existing heat recovery from exhaust air stream in question.
- **Qualifying Efficiency Requirement:** The Installation of an effective ERV, suitable for the specific HVAC system (natural gas space heating) and operational requirements of the facility.
- **Exclusions:**
 - Cannot be combined with other heat recovery measures, such as stack economizers.
 - Cannot be in conjunction with high-efficiency furnace and boiler measures as described in section 1.3.
 - Spaces where heat recovery is already required by code.

Required Documentation:

- Mechanical drawings and schedules indicating ventilation CFM or supporting documentation.
- Detailed specifications of the heat exchanger and evidence of its capacity to recover waste energy efficiently (i.e. The sensible heat exchanger is assumed to have a recovery effectiveness of 0.55; while the enthalpy wheel is assumed to have a sensible and latent recovery effectiveness of 0.70, as per MEMD).
- If applicable, schematics or operational descriptions illustrating the integration of an air stream bypass for economizer mode operation.

Important Consideration:

- The ERVs shall not affect the system's overall performance or indoor air quality. Additionally, the system should be equipped with an air stream bypass to allow for economizer mode operation when conditions permit, further enhancing energy savings.

3.2 Air compressor heat recovery

Measure Description	Unit
Air Compressor Exhaust Heat Recovery	HP

Description:

This incentive is available for the recovery and utilization of waste heat from air compressor systems to reduce natural gas consumption.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit projects, compressor replacement, or new construction installations.
- **Baseline Efficiency:** Waste heat from air compressors is not utilized.
- **Qualifying Efficiency Requirement:** The recovery system must be equipped with controls such as a thermostat, building automation system, or manually adjusted dampers to effectively utilize the recovered heat for natural gas space heating.
- **Exclusions:**
 - Redundant or backup compressors.
 - Cannot be combined with other heat recovery measures, including stack economizers.
 - Waste heat must be discharged into an unconditioned space or a space otherwise heated with natural gas fired equipment.

Required Documentation:

- Detailed plan or documentation describing the waste heat recovery system, **MUST** include horsepower. It also could include control mechanisms.
- Evidence that the waste heat is currently being discharged to an area where it is not utilized.
- Confirmation that the space heating equipment uses natural gas.

4.0 Air Distribution Systems

4.1 Constant Air Volume (CAV) AHU to Variable Air Volume (VAV) AHU

Measure Description	Unit
CAV to VAV	Square Feet of Affected Area

Description:

This incentive is available for converting existing built-up constant air volume (CAV) handling systems without reheat and no economizers into variable air volume (VAV) air handling systems with economizers.

Eligibility Criteria:

- Applicability: Eligible for retrofit projects.
- Qualifying Efficiency Requirement: The installation of Variable Frequency Drives (VFDs) on both the Air Handling Unit (AHU) supply and return fans, alongside the addition of an economizer, is required as a minimum qualification.
- Exclusions:
 - New construction projects.
 - Existing single-zone air handling equipment, such as classroom unit ventilators or fan coil units, do not qualify for this conversion incentive.
 - Cannot be combined with other incentives for VFDs on HVAC fans, airside economizers, or enthalpy economizers.
- Other requirements: The space served by the air system must be a conditioned area, requiring both heating and cooling, with the heating provided by natural gas.

Required Documentation:

- Documentation highlighting the square footage of the area covered by VAVs.
- Itemized quotes from contractors for the purchase of VFDs, Economizers, and VAV systems can be provided to support the project. In addition, post-inspections of the project showing the installation of new VFDs and building management system screenshots may also be sufficient. of the VAV system, economizers, and VFDs.
- Existing control. (if available)

4.2 Destratification fan

Measure Description	Unit
Destratification Fan	Square Feet of Affected Area

Description:

This incentive is available for the installation of destratification fans in high-ceiling (≥ 20 ft.) applications to minimize temperature gradients from the floor to the ceiling.

Eligibility Criteria:

- Applicability: Eligible for both retrofit projects and new construction applications
- Qualifying Efficiency Requirement: The installation of one or more destratification fans that effectively reduce the temperature gradient.
- Other requirements:
 - The building must be single-story with a ceiling height of 20 feet or higher.
 - The space must be heated using natural gas in winter.

Required Documentation:

- Fan specifications MUST include the diameter.
- Affected area (sq. ft) = $6.25 \times \pi \times (\text{diameter})^2$ per fan. For example: for a floor area with five 20' diameter fans the affected area = $6.25 \times \pi \times 20^2 = 7,854$ sq. ft. per fan * 5 fans = 39,270 sq. ft

5.0 Steam Trap Repair

5.1 Steam trap repair or replacement

Measure Description	Unit
Steam Trap Repair	Traps Repaired

Description:

This incentive is available for the repair or replacement of steam traps that have failed open and are leaking steam.

Eligibility Criteria:

- Applicability: Eligible exclusively for retrofit projects.
- Qualifying Efficiency Requirement: The steam traps must be repaired or replaced to eliminate leaks.
- Exclusions:
 - Corrections made during the initial commissioning and testing of new installations.
 - Steam traps that have failed closed or that are plugged.
 - The replacement of malfunctioning steam traps with orifice traps.

Required Documentation:

- Survey Spreadsheet: A detailed spreadsheet documenting the survey and repair/replacement of steam traps, including:
 - The total number of steam traps surveyed.
 - The specific location of each steam trap within the facility.
 - The number of steam traps repaired or replaced.
 - The repair or replacement date for each trap.
 - The ID tag number for each steam trap.
 - The name of the repair technician or contractor responsible for the work.

Important Consideration:

- Each individual steam trap is eligible for an incentive once every 72 months (about 6 years).

6.0 Domestic Water

6.1 Indirect water heater

Measure Description		Unit
Indirect Water Heater	≥84% Efficiency	MBH Input
	≥90% Efficiency	MBH Input

Description:

- This incentive is available for the replacement of existing domestic water heating boiler systems with more efficient models, as well as for new construction installations.

Eligibility Criteria:

- **Applicability:** Eligible for the replacement of domestic water heating boiler systems and new construction installations.
- **Baseline Efficiency:** Gas water heaters with 80% efficiency.
- **Qualifying Efficiency Requirement:** The new replacement boiler must achieve a minimum thermal efficiency of 90% and have an input capacity greater than 300 MBH. Please select the proper new efficiency range from the table above.
- **Exclusions:**
 - Redundant boilers or space water heaters.
 - Boilers exclusively used for space heating.
- **Other requirements:**
 - To qualify for incentive, the domestic water must consist of at least one boiler with a separate hot water tank(s). Only boilers greater than 300,000 Btu/hr qualify for this incentive. Boilers used for space heating only do not qualify for this incentive.
 - The gas train connected to the water heater must be disconnected or isolated from the system.

Required Documentation:

- New boiler/indirect water heater specifications detailing thermal efficiency and the input capacity.
- Evidence showing the existing boilers' efficiency.

6.2 Tankless & high-efficiency water heater

Measure Description		Unit
ENERGY STAR High Draw Water Heater (<55 gal)	Medium Draw	Unit
	High Draw	Unit
ENERGY STAR Instantaneous Water Heater		Unit

Description:

This incentive is available for the upgrade to high-efficiency (condensing) or instantaneous water heaters.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit projects and new construction installations.
- **Baseline Efficiency:** Standard efficiency hot water heaters with Thermal Efficiency (TE) or Uniform Energy Factor (UEF) ratings of ≥ 0.80.
- **Qualifying Efficiency Requirement:**
 - For high-efficiency water heaters, a minimum TE of ≥ 0.94 is required.
 - For instantaneous water heaters, a minimum TE of ≥ 0.87 is required.
 - All new units MUST be ENERGY STAR rated.
- **Exclusions:**
 - Redundant or backup units.
- **Other requirements:**
 - The water heater must have an input capacity greater than 75 MBH (75,000 BTU/hr).

Required Documentation:

- New tankless/instantaneous water heater specifications detailing thermal efficiency, input capacity, and ENERGY STAR rating.
- Evidence showing the existing water heater's efficiency.

6.3 Low-flow faucet aerator

Measure Description		Unit
Low-Flow Faucet Aerator – Public Restroom	0.5 gpm	Unit
Low-Flow Faucet Aerator – Private Restroom	1.0 gpm	Unit
	0.5 gpm	Unit
Laminar Flow Restrictors	≤ 2.0 gpm	Unit

Description:

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

Eligibility Criteria:

- Applicability: Eligible for both retrofit projects and new construction (new construction does not apply to public restrooms).
- Exclusions:
 - Public or other types of restrooms for new construction projects.
 - Restrooms with water-saving devices that were previously in place.
- Other requirements: The water heating equipment serving the restrooms must utilize natural gas.

Required Documentation:

- Proof of installation.

7.0 HVAC Controls

7.1 Demand Control Ventilation (DCV)

Measure Description	Unit
Demand Control Ventilation	Square Feet

Description:

This incentive is available for the installation of CO2 sensor controls to modulate the amount of outside air intake based on actual occupancy levels, which may be lower than scheduled.

Eligibility Criteria:

- **Applicability:** Eligible for both retrofit projects and new construction (if not mandated by code).
- **Baseline Efficiency:** The existing HVAC system must either have fully functioning airside economizers or undergo economizer repairs as part of the implementation of DCV. The minimum outside air damper position setpoint should be $\geq 10\%$ of the supply air when the space is occupied, in compliance with the current ASHRAE 62 standard or applicable local building codes.
- **Qualifying Efficiency Requirement:** The installed CO2 sensor must effectively control the minimum percentage of the outside air intake, reducing it below the existing setpoint based on real-time occupancy levels.
- **Exclusions:**
 - Cannot be combined with incentives for economizers.
 - DCV mandated by code for new construction.

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).
- **Pre- and Post-Installation Data:** Documentation showing the minimum outside air setpoint before and after the installation of CO2 sensors, ensuring that the post-installation setpoint is adjusted based on CO2 levels and is lower than the existing case, alongside evidence of a functioning economizer.

7.2 Demand control ventilation and HVAC occupancy sensors

Measure Description	Unit
DCV and HVAC OCC	Square Feet

Description:

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.

7.3 Enhanced ventilation control

Measure Description	Unit
Enhanced Ventilation Control	Ton

Description:

This incentive is available for the upgrade of single-zone constant volume rooftop units by integrating a control system that combines an advanced digital economizer controller, a supply fan VFD, and a demand-controlled ventilation system.

Eligibility Criteria:

- **Applicability:** Eligible for upgrades of existing single-zone constant volume systems that currently lack VFDs, demand control ventilation, and economizer controls and new construction projects.
- **Baseline Efficiency:** The baseline system assumes a non-functioning economizer, outdoor air set at the code value for maximum occupancy, and a constant speed supply fan.
- **Qualifying Efficiency Requirement:**
 - The new advanced system must include the installation of functional economizer controls.
 - Also, A DCV control mechanism, typically employing CO2 sensors, must be installed to adjust the volume of ventilated air based on real-time occupancy levels.
 - Furthermore, A VFD must be added to the supply fan, allowing for speed adjustments during periods of reduced demand.
- **Exclusions:**
 - Cannot be combined with separate measures for DCV, conversion from CAV to VAV on AHU, VFD on HVAC fans, or standalone airside economizer projects.

Required Documentation:

- **Proof of Existing System:** Documentation or verification showing the current setup as a single-zone constant volume system without VFD, DCV, or economizer controls. As well as, the capacity of the rooftop heating system, usually in BTU/hr.
- **Implementation Details:** Detailed specifications and installation records for the new control system, including economizer controls, DCV mechanism, and supply fan VFD.

7.4 Hotel guest room occupancy sensor

Measure Description	Unit
Hotel Guest Room Occupancy Sensor	Guest Room

Description:

This incentive is available for the installation of occupancy sensors in hotel guest rooms, which adjust the room’s temperature to energy-saving setpoints when unoccupied.

Eligibility Criteria:

- **Applicability:** Eligible for some retrofit projects (see Exclusions).
- **Qualifying Efficiency Requirement:** Occupancy sensors must control space temperature setpoints, enabling a minimum setback/setup (i.e., unoccupied) space temperature adjustment of 8°F in both heating and cooling modes.
- **Exclusions:**
 - Upgrades or replacements of existing occupancy-based temperature controls.
 - Sensors controlled by front desk systems.
 - New construction installations.
- **Other requirements:** The room must be equipped with mechanical cooling and natural gas heating systems.

Required Documentation:

- Documentation or schematics illustrating how occupancy sensors are integrated with the room’s HVAC controls, can include details on the automatic adjustment of setpoints based on occupancy detection.
- Information on the guest room’s heating and cooling systems to confirm they use natural gas for heating and are mechanically cooled.

7.5 Setback / setup controls

Measure Description	Unit
Setback/Setup Controls	Square Feet
School – Setback	Square Feet

Description:

This incentive is available for the installation of setback/setup controls (programmable thermostats included), in spaces that currently do not have any form of temperature control automation.

Eligibility Criteria:

- **Applicability:** Applicable for spaces with no temperature setback controls currently in place.
- **Qualifying Efficiency Requirement:** The installed controls must enable full setback/setup functionality.
- **Exclusions:**
 - New construction installations.
- **Other requirements:** The room must be equipped with mechanical cooling and natural gas heating 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.

7.6 HVAC occupancy sensors

Measure Description	Unit
HVAC Occupancy Sensors	Square Feet

Description:

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 $\geq 30\%$ to $\leq 15\%$ 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.
 - New construction installations.
- **Other requirements:** The room must be equipped with mechanical cooling and natural gas heating 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.

7.7 Optimal start on AHU

Measure Description	Unit
Optimal Start/Stop on AHU	Square Feet

Description:

- This incentive is available for the installation of HVAC optimal start/stop controls that utilize adaptive control algorithms to efficiently manage heating and cooling start times based on outdoor temperatures. The goal is to ensure that each zone reaches the desired occupant comfort level by the start of occupancy, without unnecessary energy use during unoccupied periods. Optimal start/stop controls calculate the most efficient startup and shutdown times, significantly reducing energy consumption while maintaining comfort.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit on existing AHU only.
- **Qualifying Efficiency Requirement:**
 - The optimal start/stop controls must be fully automated, utilizing adaptive algorithms to adjust startup and shutdown times based on historical data and outdoor temperature conditions.
 - Controls must be capable of predicting the required startup time to bring each of the occupied setpoint temperature efficiently.
- **Exclusions:**
 - Redundant or backup AHU units.
 - New construction projects.
- **Other requirements:** Installation and programming must be carried out by a licensed HVAC professional or controls engineer.

Required Documentation:

- **Floor Plans:** Detailed floor plans indicating the areas where the optimal start/stop controls have been installed, with the controlled zones clearly highlighted.
- **Sequence of Operation**

7.8 Commercial smart thermostat

Measure Description	Unit
Commercial Smart Thermostat	Square Feet

Description:

This incentive is available for specific building types—public assembly, restaurants, small retail, small offices, and houses of worship.

Eligibility Criteria:

- **Applicability:** Eligible for retrofit on existing AHU only.
- **Baseline Efficiency:** The existing thermostat must be non-programmable.
- **Qualifying Efficiency Requirement:**
 - It must maintain a continuous connection to the internet and be accessible for programming and monitoring through a standard web browser or smartphone app.
- **Exclusions:**
 - New construction projects.

Required Documentation:

- **Proof of Existing Thermostat:** Documentation or photographs of the existing non-programmable thermostat.
- **Specification and invoice** of the new thermostat.

8.0 Building Envelope & Insulation

8.1 Truck loading dock door infiltration seal

Measure Description	Unit	
Truck Loading Dock Door Infiltration Seal	No Existing Seals	Door
	Severely Degraded Existing Seals	Door
Ramp Pit Air Seal	Existing Ramp without Brush Barrier	Ramp
	Existing Ramp with Brush Barrier	Ramp

Description:

- This incentive is available for the installation of loading dock seals to prevent unconditioned air from entering buildings during the loading and unloading of trucks. By addressing the air infiltration at both drive-up docks and docks with built-in ramps.

Eligibility Criteria:

- Applicability: Eligible for both retrofit and new construction projects.
- Baseline Efficiency: Docks that currently experience significant air leakage due to gaps between the building and the semi-trailer, including the hinge gap caused by outwardly swinging trailer doors and open pits under ramps.
- Qualifying Efficiency Requirement:
 - Dock door seals must effectively close all gaps around the sides and top of the dock doors as well as the hinge gaps.
 - Ramp seals must provide a continuous seal whether the ramp is in use or not, addressing the open pit issue.
- Exclusions:
 - Brush or whisker-type seals that are not used in conjunction with air seals.

Required Documentation:

- Proof of purchase and installation.
- Specifications that demonstrate their effectiveness in sealing gaps.
- Before and After Photos

8.2 Automatic high-speed doors

Measure Description	Unit
Automatic High-Speed Doors	Square Feet of Door

Description:

This incentive is available for the installation of high-speed doors to improve energy efficiency in buildings by minimizing the time that doors separating conditioned spaces from exterior environments remain open.

Eligibility Criteria:

- Applicability: Eligible for both commercial and industrial retrofit (replacement), as well as new construction projects.
- Qualifying Efficiency Requirement:
 - The interior space where the high-speed door is to be installed must be heated during winter.
- Exclusions:
 - Replacements of existing high-speed doors.

Required Documentation:

- Proof of installation including the specification of the new automatic high-speed door.
- Proof that the interior space is heated during winter.

8.3 Flat roof insulation

Measure Description	Unit	
Flat Roof Insulation	R10 to R18	Square Feet
	R12 to R18	Square Feet
	R14 to R18	Square Feet
	R16 to R18	Square Feet
	R18 to R20	Square Feet
	R20 to R22	Square Feet
	R22 to R24	Square Feet

Description:

This incentive is available for the improvement of insulation in most building types, except for data centers, greenhouses, grocery stores, and indoor agricultural facilities.

Eligibility Criteria:

- Applicability: Eligible for retrofit projects only.
- Qualifying Efficiency Requirement:
 - All materials must be new and comply with applicable state and local codes. Installation must adhere to the manufacturer's requirements.
 - Insulation shall be "Entirely Above Deck" or in "Metal Buildings" as defined by ASHRAE 90.1 2013, installed between conditioned and unconditioned areas.
- Insulation levels qualify for a given incentive if they either start below or exceed the final R-value:
 - R-9 to R-18 qualifies for R-10 to R-18 incentive.
 - R-10 to R-19 qualifies for R-10 to R-18 incentive.
 - R-11 to R-19 doesn't qualify for R-10 to R-18 incentive but qualifies for R-12 to R-18.
 - R-10 to R-17 doesn't qualify for any incentive.
- Exclusions:
 - See 'description'.
- Other requirements: Roof insulation improvements must occur in spaces heated with natural gas-fired equipment during winter.

Required Documentation:

- Scaled Floor Plan: A detailed floor plan indicating the total roof area to be insulated.
- Roof Construction Details: A sketch or detailed drawing showing a section cut of both the existing and proposed roof insulation configurations.
- Specifications of the proposed roof insulation.

Important Consideration:

- Larger commercial and industrial customers are advised to apply through the custom section of the application process.

8.4 Wall & ceiling insulation

Measure Description	Unit
Wall Insulation	Square Feet
Ceiling Insulation	Square Feet

Description:

This incentive is available for the addition of new insulation to existing uninsulated walls and roofs/ceilings.

Eligibility Criteria:

- Applicability: Eligible for retrofit only.
- Qualifying Efficiency Requirement:
- Wall Insulation Requirements:
 - Proposed wall insulation must achieve an R-value of at least R-12.
- Ceiling Insulation Requirements:
 - The existing ceiling insulation levels must be at or below R-11, with final (new) insulation levels required to exceed R-42.
 - Eligible insulation upgrades include those installed between conditioned and unconditioned spaces, adhering to "Attic and Other" definitions as specified by ASHRAE 90.1 2013.
- Exclusions:
 - New construction projects.
 - Insulation projects directly above dropped commercial ceilings.

Required Documentation:

- Scaled Floor Plan: A detailed plan showing the total roof/wall area to be insulated, providing a clear scope of the project.
- Roof/Wall Construction Details: Sketches or diagrams depicting a cross-section of the existing and proposed insulation layers, illustrating the intended improvements in insulation depth and R-value.

8.5 General requirements pipe insulation (Applies to 8.6, 8.7 & 8.8)

Eligibility Criteria:

- Applicability: Eligible for retrofit projects only.
- Qualifying Efficiency Requirement:
 - Projects must use natural gas as the primary fuel source for space heating and/or domestic hot water production.
 - A minimum of R-4 (approximately 1 inch) of insulation is required to be added to existing bare metal piping systems.
 - The project must involve the insulation of a minimum of 10 linear feet and a maximum of 500 linear feet of piping.
 - Acceptable insulation materials include high-density fiberglass insulation or closed-cell elastomeric foam insulation, specifically shaped for piping applications.
- Exclusions:
 - Projects utilizing dual-fuel systems or where natural gas serves as a backup or redundant fuel source.
 - New construction projects.
 - Pipes that are already partially insulated (more than R-0).
 - Projects in non-conditioned spaces.
 - Newly installed or recently repaired piping systems
- Other requirements:
 - Insulation must be installed in conditioned spaces that are heated during the winter using natural gas.
 - The domestic hot water and/or space heating for the building must be generated by natural gas-fired equipment, such as boilers or hot water heaters.

Required Documentation:

- Proof of Existing Conditions: Photographs or documentation showing the current uninsulated state of the piping.
- Project Details: Detailed description or invoice of the insulation project, including the type of insulation used, total linear feet, and confirmation of R-4 minimum insulation requirement.
- Verification of Fuel Source: Documentation confirming that the building's space heating and domestic hot water are generated by natural gas-fired equipment

Important Consideration:

- The bare pipe size must be ½ inch to 2½ inch nominal pipe diameter. For piping of 3 inch or more nominal pipe diameter apply in the custom section at the bottom of this application.

8.6 Space heating pipe insulation

Measure Description	Unit	
HVAC Space Heating Pipe Insulation	Hydronic	Linear Feet
	Steam	Linear Feet

Description:

This incentive is available for the insulation of existing hydronic heating piping systems operating at a minimum water supply temperature of 180 F° and steam heating piping systems that currently have no insulation.

Eligibility Criteria:

- Applicability: All projects must meet the general requirements outlined above in 'Description'.
- Exclusions:
 - Insulation on process boilers.

Required Documentation:

- Proof of Existing System: Documentation or photos of the existing piping system, verifying the lack of insulation.
- Insulation Details: Information on the type, thickness, thermal resistance (R-value), and total linear feet of the insulation materials used.

Important Consideration:

- Insulation on process boilers should be applied for the application in the custom section.

8.7 Domestic hot water pipe insulation

Measure Description	Unit	
Natural Gas 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

Description:

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: All projects must meet the general requirements outlined above in 'Description'.

Required Documentation:

- Proof of Existing System: Documentation or photos of the existing DHW system, verifying the lack of insulation.
- Insulation Details: Information on the type, thickness, and thermal resistance (R-value) and total linear feet of the insulation materials used.

Important Consideration:

- This measure assumes bare metal pipe. Insulation of PEX piping for DHW should be applied under the custom project section at the bottom of this application.

8.8 Process boiler insulation

Measure Description	Unit
Hydronic Valve	Valve
Steam Valve	Valve
Hydronic Strainer	Valve
Strainer/Steam Trap	Valve

Description:

This incentive is available for the addition of insulation to existing saturated steam piping systems that operate at a minimum system pressure of 5 psi and currently have no insulation.

Eligibility Criteria:

- Applicability: All projects must meet the general requirements outlined above in 'Description'.
- Exclusions:
 - Condensate piping that extends to a drain.
- Other requirements: Insulation for pipe junctures and fittings must be removable, utilizing either high-density fiberglass engineered covers or modular insulation kits.

Required Documentation:

- Proof of Existing System: Documentation or photos of the existing piping system, verifying the lack of insulation.
- Insulation Details: Information on the type, thickness, thermal resistance (R-value), and total number of valves (applicable valves listed in the table above) installed new insulation.

8.9 Duct sealing

Measure Description	Unit
Duct Sealing 15% Leakage Base	Ton
Duct Sealing 20% Leakage Base	Ton
Duct Sealing 25% Leakage Base	Ton
Duct Sealing 30% Leakage Base	Ton

Description:

- This incentive is available for small commercial buildings over 18 years old with leaky ducts.

Eligibility Criteria:

- Applicability: Eligible for retrofit/repair in small commercial buildings.
- Baseline Efficiency: The baseline leakage level is listed in the table above. If a percentage falls between the two proposed ones, it will be considered as the lower percentage. If a percentage is less than 15%, it will not qualify.
- Qualifying Efficiency Requirement: Leakage reduction must be quantifiable, aiming for a leakage reduction to 8% by considering both supply and return ducts, where the reduction is measured as the decrease in cfm (at operating static pressure) relative to the total cfm before sealing.
- Exclusions:
 - Redundant or backup HVAC units.
 - New construction projects.
- Other requirements: Only air leakage to unconditioned spaces qualifies for this incentive.

Required Documentation:

- Leakage Testing Reports: Documentation including pre and post duct leakage testing results, demonstrating the effectiveness of the duct sealing in reducing leakage.
- Air Balance Report: A copy of the air balance report showing the percentage or CFM of leakage at operating pressure before and after the duct sealing project.
- Professional Verification: An invoice or certification from a commercial HVAC professional confirming the completion of the duct sealing work.
- The Capacity of the HVAC unit(s).

Important Consideration:

- Large commercial, light industrial, and heavy industrial buildings should consider applying through the custom project section.

8.10 HVAC ductwork

Measure Description	Location	Unit
Insulating HVAC Supply Ductwork	Unconditioned Space	Square Feet
	Exterior Space	Square Feet
Insulating HVAC Return Ductwork	Unconditioned Space	Square Feet
	Exterior Space	Square Feet

Description:

This incentive is available for the installation of insulation on ductwork located in unconditioned and exterior spaces within existing buildings.

Eligibility Criteria:

- Applicability: Retrofit projects in existing buildings only.
- Baseline Efficiency: The existing duct must be uninsulated.
- Qualifying Efficiency Requirement: The installed duct insulation must achieve a minimum thermal resistance of R-6.7 (equivalent to a U-value of 0.15 BTU-ft²/in-hr-°F).
- Exclusions:
 - New construction projects.
 - Duct systems that utilize resistive heating at the VAV box.
- Other requirements:
 - The heating system associated with the Variable Air Volume (VAV) box must utilize gas-fired equipment.

Required Documentation:

- Proof of Existing Conditions: Documentation or pictures verifying the current uninsulated ductwork.
- Insulation Project Details: Detailed information about the insulation material used, including its R-value (or U-value) and total linear feet of the insulation materials used.

8.11 Windows

Measure Description		SHGC	U-Value	Unit
Original Single Pane Window	Window with Original Storm Window	≥0.58	≥0.76	Square Feet (Window Surface Area)
	With Low U Storm	≥0.27	≥0.21	Square Feet (Window Surface Area)

Description:

This incentive is available for the replacement of single-pane to double-pane windows in existing buildings.

Eligibility Criteria:

- Applicability: Retrofit projects in existing buildings only.
- Baseline Efficiency: Must be single-pane windows.
- Qualifying Efficiency Requirement: Replacement windows must meet or exceed minimum optical (Solar Heat Gain Coefficient - SHGC) and meet or be below the thermal properties (U-value) as listed in the table above.
- Exclusions:
 - New construction projects.
 - Replacement of windows with broken vapor seals.

Required Documentation:

- Proof of Existing Windows: Documentation or photographs of the existing single pane windows to establish the baseline for the retrofit.
- Replacement Window Specifications: Technical data sheets or manufacturer documentation for the replacement double pane windows, verifying their compliance with the minimum SHGC and U-value requirements and the total square footage.

9.0 Commercial Kitchen & Refrigeration Equipment

9.1 ENERGY STAR® & High-Efficiency commercial kitchen cooking equipment

Measure Description	Unit	
ENERGY STAR Fryer	Unit	
ENERGY STAR Large Vat Fryer	Unit	
ENERGY STAR Steam Cooker	5 pan	Unit
	6 pan	
ENERGY STAR Combination Oven	Unit	
ENERGY STAR Convection Oven	Unit	
ENERGY STAR Rack Oven	Single	Unit
	Double	
ENERGY STAR Griddle	Unit	
High-Efficiency Pasta Cooker	Unit	

Description:

This incentive is available for ENERGY STAR-rated and/or high-efficiency commercial kitchen equipment.

Eligibility Criteria:

- Applicability: Eligible for both retrofit and new construction projects.
- Qualifying Efficiency Requirement: All appliances must be ENERGY STAR rated or to the minimum energy efficiency standards set by the program. See below:
- Large Vat Fryers:
 - Must be 18" x 14" or greater and a shortening capacity exceeding 50 pounds with a cooking energy efficiency of 50% or higher.
- ENERGY STAR Steam Cooker:
 - Must be 5 or 6 pan sizes with a cooking energy efficiency of 38% or higher.
- Combination Oven:
 - Must have a cooking energy efficiency of 49% or higher.
- ENERGY STAR Convection Oven:
 - Must have a cooking energy efficiency of 49% or higher.
- Rack Oven:
 - Should achieve a cooking energy efficiency of 50% or higher.
- ENERGY STAR Griddle:
 - Existing equipment must have a cooking energy efficiency of 0.65 or lower, with new equipment needing to exceed 0.70.
- Pasta Cooker:
 - They should operate for between 3 and 16 hours per day, and higher operating times should consider custom project applications.
- Exclusions:
 - Pasta cookers operate less than 3 hours per day.

Required Documentation:

- Specification of the appliance
- Invoice

Important Consideration:

- Pasta cookers operating more than 16 hours per day should be considered as a custom project.

9.2 Pre-rinse sprayer

Measure Description	Replacing	Proposed	Unit
Pre-Rinse Sprayers	1.6 gpm	0.68	Unit

Description:

This incentive is available for the retrofit of existing standard sprayers to meet DOE Federal Energy Conservation Standards.

Eligibility Criteria:

- Applicability: Eligible for retrofit projects only.
- Baseline Efficiency: Standard Sprayer => 1.6 gpm.
- Qualifying Efficiency Requirement: Efficient Sprayer <= 0.68 gpm.
- Exclusions:
 - New construction projects.

Required Documentation:

- Proof of Existing Equipment: Documentation or pictures of the current standard sprayers.
- Specifications and proof of installation of the new efficient sprayers.

9.3 Commercial refrigeration heat recovery

Measure Description	Unit	
Refrigeration Waste Heat Recovery	HVAC	Ton
	Domestic Water Heater	Ton

Description:

This incentive is available for the installation of waste heat recovery equipment from commercial refrigeration system condensers for use in space heating or domestic hot water (DHW) systems.

Eligibility Criteria:

- Applicability: Eligible for both retrofit and new construction projects.
- Baseline Efficiency: Refrigeration systems where the condenser's waste heat is predominantly unused (more than 95% wasted), typically rejected outside or to unconditioned spaces.
- Qualifying Efficiency Requirement: Installation must include a new heat exchanger in the HVAC supply duct or the cold water supply to the DHW system, designed to recover a minimum of 70% of the refrigeration load.
- Exclusions:
 - Restrictions on Combined Measures: Waste heat recovery for both hot water and space heating cannot be claimed under the same incentive, even if the system is capable of serving both purposes.
- Other requirements:
 - The space heating or DHW equipment connected to the waste heat recovery system must use natural gas.
 - For DWH part of the measure, pre-heat tanks must be included as part of the system to optimize heat recovery.

Required Documentation:

- System Design and Specifications: Detailed description and technical specifications of the refrigeration heat recovery system, as well as the capacity (Ton) of the refrigeration system under consideration.
- Efficiency Analysis: Calculation or analysis demonstrating that the recovery heat exchanger is capable of recovering at least 70% of the refrigeration load.
- For the HVAC measure, explanation of how waste heat is diverted during periods when the heating system is not in operation.

Important Consideration:

- Projects involving waste heat recovery from 1) compressors/racks, 2) condenser integration with HVAC equipment or process chillers, and 3) industrial refrigeration heat recovery should apply through the custom section of the application process.

9.4 Flexible batch broiler

Measure Description	Unit
Flexible Batch Broiler with Catalyst	Unit
Flexible Batch Broiler	Unit

Description:

This incentive is available for flexible batch broilers.

Eligibility Criteria:

- Applicability: Eligible for commercial kitchens looking to replace existing conveyor broilers with more energy-efficient flexible batch broilers. It is also applicable to new construction projects.
- Exclusions:
 - Replacing electric equipment – fuel switching.
- Other requirements:
 - The batch broiler must feature an enclosed cooking chamber.
 - A catalyst capable of breaking down grease present in the exhaust is required.

Required Documentation:

- Equipment Specifications & Invoices
- Proof of existing equipment

9.5 ENERGY STAR® dishwasher

Measure Description	Unit	
ENERGY STAR Dishwasher w/ Gas Booster	Door Type	Unit
	Multi-Tank Conveyor	Unit
	Single Tank Conveyor	Unit
	Under Counter	Unit

Description:

This incentive is available for the installation of new or replacement high-temperature gas dishwashers that are ENERGY STAR-rated.

Eligibility Criteria:

- Applicability: Eligible for replacing non-ENERGY STAR-rated gas dishwashers and for new construction projects.
- Qualifying Efficiency Requirement: New dishwashers must be ENERGY STAR-rated for commercial use, capable of achieving 180°F for high-temperature washing.
- Exclusions:
 - Replacing electric equipment – fuel switching.
- Other requirements:
 - New dishwashers utilize natural gas for both primary and boost heating functionalities.

Required Documentation:

- Equipment Specifications & Invoices
- Proof of existing equipment

Important Consideration:

- Dishwashers with a low-temperature designation may be eligible, but they should be applied for under the custom section of this application.

9.6 ENERGY STAR® clothes washer

Measure Description	Unit	
ENERGY STAR Clothes Washer	With Gas Water Heater and Electric Dryer	Unit
	With Electric Water Heater and Gas Dryer	Unit
	With Gas Water Heater and Gas Dryer	Unit

Description:

- This incentive is available for new or replacement ENERGY STAR-rated washers. (These washers are designed to reduce the moisture content of clothes before drying, and they use less hot water, indirectly reducing natural gas consumption for both hot water heating and gas drying).

Eligibility Criteria:

- Applicability: Eligible for replacements of non-ENERGY STAR-rated washers and new construction projects.
- Qualifying Efficiency Requirement: Washers must be ENERGY STAR rated, capable of handling a minimum of 4 loads per day and be used year-round. Washer capacity must be ≥ 3.5 cubic feet.
- Exclusions:
 - Redundant or backup washers.
 - Used equipment.
 - Replacing electric equipment – fuel switching.
- Other requirements:
 - Dryers and hot water heaters are not required to be ENERGY STAR rated.

Required Documentation:

- Specifications or nameplate photo of existing and new hot water heater(s) and dryer(s).
- Written statement detailing daily or annual load capacity.

10.0 Agriculture

10.1 Grain dryers

Measure Description	Unit
Higher-Efficiency Grain Dryer	Bushels/Year
Grain Dryer Heat Recovery	Bushels/Year

Description:

This incentive is available for the adoption of new high-efficiency grain dryers and/or heat recovery add-ons. (with large drying capacities, enabling faster and more efficient processing of agricultural products).

Eligibility Criteria:

- Grain Dryer:
 - Applicability: Eligible for both retrofit and new construction projects.
 - Baseline Efficiency: The existing grain dryer must be at least 20 years old and lack heat recovery capabilities.
 - Qualifying Efficiency Requirement: The new grain dryer must be heated by natural gas, be permanently installed, and achieve a minimum efficiency of 1,590 BTU/pound-water.
- Heat Recovery:
 - Applicability: Eligible for retrofit projects only, this measure supports the addition of heat recovery equipment to existing grain dryers, specifically those used for drying corn.
 - Baseline Efficiency Requirement: The existing grain dryers must be in good working condition with at least 10 years of expected operational life left.
- Qualifying Efficiency Requirement: The retrofit must enable the dryer to recirculate at least 30% of the drying air.
- Exclusions: New Construction projects.

Required Documentation:

- Annual Production: Documentation of annual production in bushels/year.
- Documentation proving the existing equipment's age.
- Spec sheet for the old and new ENERGY STAR equipment.

10.2 ENERGY STAR® dairy water heaters

Measure Description	Unit
ENERGY STAR Dairy Water Heaters	Unit

Description:

This incentive is available for the replacement of a storage-type gas water heater with an ENERGY STAR rated dairy water heater.

Eligibility Criteria:

- Applicability: Eligible for both retrofit and new construction projects.
- Baseline Efficiency: The existing water heater must have an efficiency of less than 85%.
- Qualifying Efficiency Requirement:
 - Must be ENERGY STAR rated.
 - Must feature a thermostat adjustable up to 180°F.
 - Water heater capacity must exceed 75,000 BTU/hr.
- Exclusions:
 - Redundant or backup units.
 - Fuel switching - replaces non-gas storage water heaters.

Required Documentation:

- Spec sheet for the old and new ENERGY STAR equipment.
- Installation invoices.

10.3 Greenhouse heat curtain

Measure Description	Unit
Greenhouse Heat Curtain	Square Feet (of Affected Area)

Description:

- This incentive is available for new or replacement heat curtains. (By deploying heat curtains, greenhouses can significantly reduce the amount of natural gas required for heating during night-time hours.)

Eligibility Criteria:

- Applicability: Eligible for both retrofit projects, where no heat curtain previously existed, and new construction projects.
- Qualifying Efficiency Requirement: The heat curtains must show a natural gas savings rate of at least 40%, as shown on the invoice.
- Exclusions:
 - Replacing electric equipment – fuel switching.
- Other requirements:
 - The new heat curtains must be specifically designed by the manufacturer for the purpose of heat retention within greenhouses.
 - The product must come with an effective life warranty of at least five years.
 - Heat curtains must be controlled with a timer or thermostat.
 - The incentive is based on the square footage of the affected area.

Required Documentation:

- Specifications & Invoices showing the natural gas savings rate $\geq 40\%$.
- Total square footage of affected area.

10.4 Greenhouse infrared film

Measure Description	Unit
Greenhouse Infrared Film – Single-Layer Baseline	Square Feet (of Affected Area)
Greenhouse Infrared Film – Double-Layer Baseline	Square Feet (of Affected Area)

Description:

- This incentive is available for the installation of polyethylene film with IR additive, (which adds extra protection against heat loss over traditional polyethylene).

Eligibility Criteria:

- Applicability: Eligible for the replacement of existing non-IR poly film or IR poly film that is at least 5 years old, as well as new construction (double-layer only) projects.
- Exclusions:
 - Single-layer for new construction.
 - Coatings applied on-site to existing films.
- Other requirements: The incentive is based on the square footage of the affected area.

Required Documentation:

- Written documentation identifying the existing film type or age is required. Acceptable forms include old invoices, spec sheets, or a written statement if documentation is unavailable.
- Specifications sheet and invoice.
- Total square footage of affected area

10.5 Greenhouse hydronic heating

Measure Description	Unit	
Greenhouse Under-Floor/ Under-Bench Hydronic Heating	w/o Thermal Curtain	Square Feet (of Bench Area Served)
	with Thermal Curtain	Square Feet (of Bench Area Served)

Description:

This incentive is available for the installation of under-floor (either within concrete or in direct contact with the ground) or under-bench hydronic heating loops in agricultural greenhouses.

Eligibility Criteria:

- **Applicability:** Eligible for both the retrofit of existing HVAC systems and new construction projects.
- **Baseline Efficiency:** Currently using unit heaters with forced air circulation. These existing systems must be decommissioned or reconfigured to serve as backup heating solutions.
- **Qualifying Efficiency Requirement:**
 - Temperature sensors for the hydronic heating system are required to be placed within the growing media to accurately reflect and manage the root zone temperature.
 - While the forced air heating system can remain for secondary or supplemental heating, it cannot serve as the primary source of warmth in the greenhouse.

Required Documentation:

- Existing heating system configuration.
- The new hydronic heating system configuration, includes the total square footage of bench area served.
- Statement confirming the decommissioning of traditional space heating in favor of hydronic floor heating, along with evidence of sequencing (backup heat).

10.6 Greenhouse environmental controls

Measure Description	Unit
Greenhouse Environmental Controls	Square Feet

Description:

This incentive is available for the installation of automated environmental control systems in greenhouses.

Eligibility Criteria:

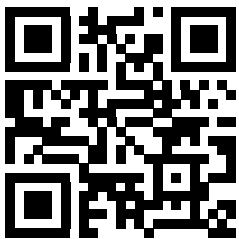
- **Applicability:** Eligible for both the retrofit of existing greenhouse systems and new construction projects.
- **Baseline Efficiency:** There are no existing scheduled temperature setback controls in the greenhouse.
- **Qualifying Efficiency Requirement:**
 - The proposed system must be capable of controlling temperature setpoints with at least hourly adjustments.
 - Building controls must be programmed with scheduled temperature setbacks or equipped with automatic setback capabilities.

Required Documentation:

- Technical details and features documentation of environmental controls.
- Pictures or other proof of the setback capability.
- Total controlled area (sq. ft) of the greenhouse.

11.0 Tune-ups

11.1 Tune-ups



The Boiler and Furnace Tune-up Application is available here. Please review and adhere to tune-up requirements and program Terms and Conditions.

12.0 Snow & Ice Melt Controls

12.1 Advanced snow melt controls

Measure Description	Unit
Optimized Snow and Ice Melt Controls – Without Idle Mode	Square Feet of Heated Pavement
Optimized Snow and Ice Melt Controls – Without Idle Mode	Square Feet of Heated Pavement

Description:

This incentive is available for controls that stop the recirculation of fluid within the snow melt piping system during periods without snow or ice presence (on the ground, based on weather conditions).

Eligibility Criteria:

- Applicability: Eligible for both replacement of existing systems and new construction projects.
- Qualifying Efficiency Requirement: Controllers must be able to fully shut off (not just idle) when no precipitation is detected. The Building Automation System (BAS) should be capable of accessing weather forecasts to activate the snow/ice melt system, maintaining an idle slab temperature of around 32°F for about 8 hours before a forecasted precipitation event.
- Exclusions:
 - The installation of surface temperature setpoint controls and/or moisture controls that turn off the snow melt system.
- Other requirements:
 - A slab moisture sensor is required to allow the slab temperature to rise to 40°F during moisture events, (ensuring effective melting only when necessary).

Required Documentation:

- Detailed description and specifications of the proposed control system.
- Total square footage of heated pavement.

2025 Custom Project Specification

Measure Description	Unit
Custom – Natural Gas	Therm Saved

- All custom projects must be facility improvements that result in a permanent reduction in natural gas energy usage due to an increase in a system's efficiency. Projects that result in reduction of energy consumption without an improvement in system efficiency are not eligible for a custom incentive. However, projects involving automated control technology may be eligible for incentives. All equipment purchased for custom projects must be new. Projects that entail measures covered by the prescriptive incentive program are not eligible for custom incentives.
- The annual gas savings must be calculated for all custom projects using industry-accepted engineering algorithms and/or simulation models. Calculations must be completed for both the existing and proposed equipment/systems based on the current operation of the facility. If the equipment has reached the end of its useful life, the existing system must be substituted with equipment that would meet the applicable federal and local energy codes when calculating the annual energy savings.

- All calculations, metered data, equations, and assumptions must be submitted with the application along with their sources if applicable. SEMCO's Energy Waste Reduction Program is solely responsible for the final determination of the annual energy savings to be used in calculating the incentive amount. Preliminary and post-inspections are required to verify equipment and operation conditions. SEMCO's EWR Program reserves the right to require specific measurements and verification measures, including monitoring both before and after the completion of the project. The incentive payment will be based on the result of the above-mentioned activities.
- Project payback is equal to the ratio of the project cost divided by the annual energy bill savings. To qualify for a custom project, the project payback must be at least one year and no more than eight years. A pre-application is required for all custom projects while the existing equipment is still in operation in order to allow SEMCO's EWR Program the opportunity to verify the existing equipment.
- The following types of projects do not qualify for energy efficiency incentives:
 - On-site electricity generation.
 - Renewable energy.
 - Changes in operational and or/maintenance practices or simple control modifications that do not involve capital cost.