

# ENERGY MANAGEMENT SYSTEM INCENTIVES WORKSHEET

January 1, 2020 through December 31, 2020

**Directions:** Please save a copy of this form to your computer by selecting “File/Save As” before entering text and numbers. Then fill in your information electronically and select “Save.” Note that this form requires Adobe Reader® version 11.0 to function properly. Download the most recent version of Adobe Acrobat Reader DC® at <http://get.adobe.com/reader>.

**Pre-application is required; review instructions on the standard incentives application form. Wait for a reservation letter before starting your project.**

## Specifications

- HVAC EMS systems must be new and include:
  - Central time control
  - Real-time outside air damper positioning
  - Graphic operator interface
  - System ability to generate reports such as fault detection and diagnostics report, energy use intensity (EUI), etc.
  - Web-based interface with PC-based controls
  - Minimum setback space temperature of at least +/- 5°F in both heating and air condition mode
  - Minimum setback period of more than 2,200 hours per year except for facilities that are occupied 24/7
- Buildings upgrading existing digital EMS are eligible for this incentive if existing system is 15 years or older.
- Residential space cannot be included in the claimed square footage.
- If new construction, control strategies required by code are not eligible.
- If more than 40% of the facility is unoccupied, only the occupied space will be eligible for an incentive.
- Control strategies that are options for EMS measure incentives are not eligible for incentives under separate measures (e.g., if a facility installs a new EMS, they will not be eligible to apply for a measure such as a VSD on a cooling tower for 12 months).
- Customers who have received a ComEd retro-commissioning study may not be eligible for EMS incentives. Please contact ComEd to further discuss project eligibility.
- Control strategies present and functional on an existing EMS that is 15+ years old are not eligible as Tier 1 or Tier 2 control strategy options.

Note: Your gas company may offer an additional prescriptive or custom rebate for this measure. Visit [NicorGasRebates.com](http://NicorGasRebates.com), [PeoplesGasRebates.com](http://PeoplesGasRebates.com) or [NorthShoreGasRebates.com](http://NorthShoreGasRebates.com) for more information.

<b>Customer Name:</b>

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## Required Documents

The documents listed below are required for any project applying for the EMS incentive and must be submitted along with all of the standard application documentation shown on page 2 of the pre-approval and final application form.

### Include the following information with your pre-approval application:

The scope of work must include a list of control strategies along with a plan for how each will be implemented.

A dimensional floor plan which allows for square foot verification.

EMS system software and hardware component specifications.

For projects with existing EMS, submit documentation to verify system age (e.g. date on existing drawings or hardware panel with installation data photo).

### Include the following information with your final application:

A detailed sequence of operations demonstrating how each selected strategy is implemented.

Control system screenshots that verify each implemented strategy chosen on the application:

Screenshots must validate the control logic and the monitored points.

One screenshot must exhibit a trend report that confirms implementation of each selected control strategy.

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## Please Describe the Current System

Include explanation of current heating/reheating/cooling systems.

## Control Strategies

Please select each control strategy that the current HVAC control system has in place.

### Air Handling / Ventilation Systems:

- |   |   |
|---|---|
| Optimal start/stop  | Supply air static pressure reset                      |
| Economizer control - dry bulb or enthalpy changeover  | Supply air temperature reset                          |
| Improved outside air volume control (other than economizer)   | Morning warm up cycle with outside air fully closed   |
| Demand control ventilation using carbon dioxide sensors   | Morning cool down cycle with outside air fully closed |
| Cooling lockout based on outside air temperature  | Heating lockout based on outside air temperature      |
| Occupied space conditioning equipment control - minimum/maximum dual set points for occupied and unoccupied periods for VAV boxes |   |
| Other:  |   |

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### Central System and Central Plant:

- |  |  |
|--|--|
| Condenser water temperature setpoint reset | Distribution pump speed control/sequencing |
| Chilled water temperature setpoint reset   | Cooling tower fan speed control/staging    |
| Chiller or compressor sequencing           | Other:                                     |

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### Facility Heating Systems:

- |          |             |        |
|----------|-------------|--------|
| Electric | Natural Gas | Other: |
|----------|-------------|--------|

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## Please Describe the New System

### Eligible Enhanced Control Strategies

Please select each control strategy that the proposed HVAC control system has in place.

To meet the Tier 2 incentive requirement, you must select at least three control strategies from Tier 2.

#### TIER 1 - Air Handling / Ventilation Systems:

- |   |   |
|---|---|
| Optimal start/stop  | Supply air static pressure reset                      |
| Economizer control - dry bulb or enthalpy changeover  | Supply air temperature reset                          |
| Improved outside air volume control (other than economizer)   | Morning warm up cycle with outside air fully closed   |
| Demand control ventilation using carbon dioxide sensors   | Morning cool down cycle with outside air fully closed |
| Cooling lockout based on outside air temperature  | Heating lockout based on outside air temperature      |
| Occupied space conditioning equipment control - minimum/maximum dual set points for occupied and unoccupied periods for VAV boxes |   |
| Other:  |   |

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#### TIER 2 - Central System and Central Plant:

- |  |  |
|--|--|
| Condenser water temperature setpoint reset | Distribution pump speed control/sequencing |
| Chilled water temperature setpoint reset   | Cooling tower fan speed control/staging    |
| Chiller or compressor sequencing           | Other:                                     |

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## Building Energy Management System

Installation of EMS on existing buildings with non-programmable pneumatic thermostats.

**TIER 1: At least (3) control strategies implemented**  
**\$0.25 per square foot of conditioned space**

EQUIPMENT TYPE INSTALLED	SQUARE FEET	INCENTIVE

**TIER 2: At least (6) control strategies implemented**  
**\$0.35 per square foot of conditioned space**

EQUIPMENT TYPE INSTALLED	SQUARE FEET	INCENTIVE

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## Installation of EMS on existing buildings with non-programmable electronic thermostats

**TIER 1: At least (3) control strategies implemented**  
**\$0.25 per square foot of conditioned space**

EQUIPMENT TYPE INSTALLED	SQUARE FEET	INCENTIVE

**TIER 2: At least (6) control strategies implemented**  
**\$0.35 per square foot of conditioned space**

EQUIPMENT TYPE INSTALLED	SQUARE FEET	INCENTIVE

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## Installation of EMS on existing buildings with programmable thermostats

**TIER 1: At least (3) control strategies implemented**  
**\$0.15 per square foot of conditioned space**

EQUIPMENT TYPE INSTALLED	SQUARE FEET	INCENTIVE

**TIER 2: At least (6) control strategies implemented**  
**\$0.25 per square foot of conditioned space**

EQUIPMENT TYPE INSTALLED	SQUARE FEET	INCENTIVE

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## Building Energy Management System (cont'd)

### Installation of EMS on existing buildings with existing digital EMS older than 15 years

**TIER 1: At least (3) control strategies implemented**  
**\$0.10 per square foot of conditioned space**

EQUIPMENT TYPE INSTALLED	SQUARE FEET	INCENTIVE

**TIER 2: At least (6) control strategies implemented**  
**\$0.15 per square foot of conditioned space**

EQUIPMENT TYPE INSTALLED	SQUARE FEET	INCENTIVE

GRAND TOTAL INCENTIVE REQUESTED

Incentive cannot exceed 100 percent of the incremental measure cost and 75 percent of the total project cost and must meet all program terms and conditions.