ComEd
Energy Efficiency Program

PUBLIC SECTOR ONLY WORKBOOK
Extension of 2017 Electric Incentives
June 1, 2017 through December 31, 2017

Standard and Custom Incentive Programs for:

Local Government
Public Schools
Community Colleges
Public Universities
State Facilities
Federal Facilities

Clean Water Incentive Program for:

Public Waste Water Treatment Facilities

A pre-approval application is required.

Download the **Standard and Custom Incentives Pre-Approval and Final Application Form** at:

ComEd.com/PSEE

Applications should be submitted by **ONE** of the following methods:

Email: BusinessEE@ComEd.com 10MB file size limit; submit multiple emails if necessary)

Fax: **630-480-3436**

Mail: **The ComEd Energy Efficiency Program**
700 Commerce Drive, Suite 330, Oak Brook, IL 60523

The ComEd Energy Efficiency Program standard and custom pre-approval and final application form can be found at ComEd.com/PSEE.

Questions? Call **855-433-2700** or email BusinessEE@ComEd.com

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Consortium for Energy Efficiency (CEE) link

DesignLights Consortium® link

ENERGY STAR® link

FOR MORE INFORMATION

The ComEd Energy Efficiency Program offers cash incentives, technical solutions and whole-building solutions to help businesses use energy more efficiently. For more information, visit **ComEd.com/BizIncentives**, call **855-433-2700** or email **BusinessEE@ComEd.com**.

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Incentives: Specifications

LIGHTING SPECIFICATIONS

All lighting projects are expected to comply with the Illuminating Engineering Society of North America (IESNA) recommended lighting levels or the local code. PCB ballasts and lamps are hazardous materials and should be disposed of properly.

The Lighting Incentive Worksheet column for replacement type must be indicated with, the letter "R" for replacement of lighting equipment that is working and operational, or the letter "N" if the existing lighting is not working. Also, use the letter "N", for the new illumination of renovated areas with a change of tasks, i.e, converting a storage area to an office.

Existing fixture information is required on the lighting worksheet. The preferred method is to select the fixtures and lamps with indicated wattages. If the list does not accurately describe the existing, the choices with "Other Wattage" may used. They require entering the "Actual Watts" and a description of the existing fixtures.

T12 to T8/T5 Lighting Incentives

T12 Permanent Lamp Removal

Incentive applies for de-lamping, permanent removal, of existing T12 fluorescent lamps. De-lamp is the net reduction in the number of lamps in a fixture. Applicants are responsible for determining whether or not to use reflectors in combination with lamp removal in order to maintain adequate lighting levels. Lighting levels are expected to meet the Illuminating Engineering Society of North America (IESNA) recommended light levels. Unused lamps, lamp holders, and ballasts must be permanently removed from the fixture and disposed of in accordance with local regulations. This measure is applicable when the existing T12 fixtures are retrofitted with T8 lamps and ballasts or T5 lamps and ballasts, or reconfiguring a T8 fixture to reduce the number of lamps. Removing lamps from a T12 fixture that is not being retrofitted with T8/T5 lamps and ballasts are not eligible for this incentive. A Pre-Approval Application is required for lamp removal projects in order for ComEd to conduct a pre-retrofit inspection. The lighting worksheet automatically calculates the quantity of lamps removed from the existing and efficient fixture configuration. The worksheet requires selecting an existing T12 fixture with specified watts and lamp quantity ; the T12 (Other Wattage) will not calculate delamping. For T8 delamping, under existing, also select similar T12 fixture configuration with lamp quantity and length, then select from "Retrofit with T8 lamp&ballast" for efficient fixture with quantity of zero (0).

Delamp	Incentive	Per
Delamp 2-foot T8/T12 lamp	$ 8	lamp
Delamp 3-foot T8/T12 lamp	$ 10	lamp
Delamp 4-foot T8/T12 lamp	$ 12	lamp
Delamp 8-foot T8/T12 lamp	$ 16	lamp
Delamp 2-foot T8/T12 lamp and Install Reflector	$ 18	lamp
Delamp 3-foot T8/T12 lamp and Install Reflector	$ 20	lamp
Delamp 4-foot T8/T12 lamp and Install Reflector	$ 22	lamp
Delamp 8-foot T8/T12 lamp and Install Reflector	$ 30	lamp

High Performance (HP) or Reduced Wattage (RW) 4-foot T8 Lamps and Ballasts, T5 Lamps and Ballasts - Retrofit

Incentive applies for retrofitting existing fixtures by replacing T12 lamps and ballasts with high performance or reduced wattage T8 lamps and electronic ballasts, or T5 lamps and electronic ballasts.

Qualified T8 lamps found at link: http://library.cee1.org/content/commercial-lighting-qualifying-products-lists

Attach the page from list and circle the lamps that will be used. Or submit manufacturers spec sheet that indicate that the lamps meet the specification: color rendering index (CRI) ≥ 80, lamp life ≥ 24,000 hours, lumen maintenance ≥ 94% (94% of initial lumens at 40% of rated lamp life). The electronic ballast must have a power factor (PF) ≥ 90, total harmonic distortion (THD) ≤ 20% at full light output, high frequency (≥ 20 kHz), UL listed, and warranted against defects for 5 years.

Retrofit with T8 lamp & ballast	Incentive	Per
T8 1 (25W) lamp, High Perf/RW Lamp & Ballast, 4 foot	$ 14	retrofitted fixture
T8 2 (25W) lamp, High Perf/RW Lamp & Ballast, 4 foot	$ 28	retrofitted fixture
T8 3 (25W) lamp, High Perf/RW Lamp & Ballast, 4 foot	$ 42	retrofitted fixture
T8 4 (25W) lamp, High Perf/RW Lamp & Ballast, 4 foot	$ 56	retrofitted fixture
T8 1 (28W) lamp, High Perf/RW Lamp & Ballast, 4 foot	$ 13	retrofitted fixture
T8 2 (28W) lamp, High Perf/RW Lamp & Ballast, 4 foot	$ 26	retrofitted fixture
T8 3 (28W) lamp, High Perf/RW Lamp & Ballast, 4 foot	$ 39	retrofitted fixture
T8 4 (28W) lamp, High Perf/RW Lamp & Ballast, 4 foot	$ 52	retrofitted fixture
T8 1 (32W) lamp, High Perf/RW Lamp & Ballast, 4 foot	$ 12	retrofitted fixture
T8 2 (32W) lamp, High Perf/RW Lamp & Ballast, 4 foot	$ 24	retrofitted fixture
T8 3 (32W) lamp, High Perf/RW Lamp & Ballast, 4 foot	$ 36	retrofitted fixture
T8 4 (32W) lamp, High Perf/RW Lamp & Ballast, 4 foot	$ 48	retrofitted fixture

Retrofit with T5 lamp & ballast	Incentive	Per
T5 1 (28-32W) lamp, Lamp & Ballast, 4 foot	$ 12	retrofitted fixture
T5 2 (28-32W) lamp, Lamp & Ballast, 4 foot	$ 24	retrofitted fixture
T5 3 (28-32W) lamp, Lamp & Ballast, 4 foot	$ 36	retrofitted fixture
T5 4 (28-32W) lamp, Lamp & Ballast, 4 foot	$ 48	retrofitted fixture

T5/T8 Lamps and Ballasts, 2-foot, 3-foot, 8-foot and U-tube - Retrofit

Incentive applies for retrofitting existing 2-foot, 3-foot, 8-foot and U-tube T12 lamps and ballasts with 2-foot, 3-foot, 8-foot and U-tube T8 lamps and ballasts. Incentive also applies to retrofitting T12 lamps and ballasts with 2-foot T5 lamps and ballasts. The T5/T8 lamps must have a color rendering index (CRI) ≥ 80. The electronic ballast must have a power factor (PF) ≥ 0.90, and total harmonic distortion (THD) ≤ 32% at full light output. A manufacturer's specification sheet must accompany the application.

Retrofit with T8 lamp & ballast	Incentive	Per
T8 1 (17W) lamp, Lamp & Ballast, 2 foot	$ 5	retrofitted fixture
T8 2 (17W) lamp, Lamp & Ballast, 2 foot	$ 10	retrofitted fixture
T8 3 (17W) lamp, Lamp & Ballast, 2 foot	$ 15	retrofitted fixture
T8 4 (17W) lamp, Lamp & Ballast, 2 foot	$ 20	retrofitted fixture
T8 1 (25W) lamp, Lamp & Ballast, 3 foot	$ 7	retrofitted fixture
T8 2 (25W) lamp, Lamp & Ballast, 3 foot	$ 14	retrofitted fixture
T8 3 (25W) lamp, Lamp & Ballast, 3 foot	$ 21	retrofitted fixture
T8 4 (25W) lamp, Lamp & Ballast, 3 foot	$ 28	retrofitted fixture
T8 U-Tube 1 (<30W) lamp, Lamp & Ballast, 4 foot	$ 7	retrofitted fixture
T8 U-Tube 2 (<30W) lamp, Lamp & Ballast, 4 foot	$ 14	retrofitted fixture
T8 1 (<58W) lamp, Lamp & Ballast, 8 foot	$ 16	retrofitted fixture
T8 2 (<58W) lamp, Lamp & Ballast, 8 foot	$ 32	retrofitted fixture
T8 3 (<58W) lamp, Lamp & Ballast, 8 foot	$ 48	retrofitted fixture
T8 4 (<58W) lamp, Lamp & Ballast, 8 foot	$ 64	retrofitted fixture

Retrofit with T5 lamp & ballast	Incentive	Per
T5 1 (14W) lamp, Lamp & Ballast, 2 foot	$ 14	retrofitted fixture
T5 2 (14W) lamp, Lamp & Ballast, 2 foot	$ 28	retrofitted fixture
T5 3 (14W) lamp, Lamp & Ballast, 2 foot	$ 42	retrofitted fixture
T5 4 (14W) lamp, Lamp & Ballast, 2 foot	$ 56	retrofitted fixture

T8 to RW T8 Lighting Incentives

Reduced Wattage (RW) 4-foot T8 Lamp Only - Relamp

Incentive applies for the replacement of existing T8 lamps with reduced wattage (RW) T8 lamps when electronic ballast is already present.

Qualified lamps found at link: http://library.cee1.org/content/commercial-lighting-qualifying-products-lists

Attach the page from list and circle the lamps that will be used. Or submit manufacturers spec sheet that indicate that the lamps meet the specification: color rendering index (CRI) ≥ 80, lamp life ≥ 24,000 hours, lumen maintenance ≥ 94% (94% of initial lumens at 40% of rated lamp life). The nominal wattage of new RW lamps must be ≤28 Watts with efficacy, (lumens/watt) of 90 or greater.

T8 Relamp	Incentive	Per
T8 1 (25W) RW lamp, 4 foot	$ 3	relamped fixture
T8 2 (25W) RW lamp, 4 foot	$ 6	relamped fixture
T8 3 (25W) RW lamp, 4 foot	$ 9	relamped fixture
T8 4 (25W) RW lamp, 4 foot	$ 12	relamped fixture
T8 1 (28W) RW lamp, 4 foot	$ 2.5	relamped fixture
T8 2 (28W) RW lamp, 4 foot	$ 5	relamped fixture
T8 3 (28W) RW lamp, 4 foot	$ 7.5	relamped fixture
T8 4 (28W) RW lamp, 4 foot	$ 10	relamped fixture

Reduced Wattage (RW) 8-foot T8 Lamp Only - Relamp

Incentive applies for the replacement of existing T8 lamps with reduced wattage (RW) T8 lamps when electronic ballast is already present.

Submit manufacturers spec sheet that indicate that the lamps meet the specification: color rendering index (CRI) ≥ 80, lamp life ≥ 24,000 hours, lumen maintenance ≥ 94% (94% of initial lumens at 40% of rated lamp life). The nominal wattage of new RW lamps must be ≤28 Watts with efficacy, (lumens/watt) of 90 or greater.

T8 Relamp	Incentive	Per
T8 1 (<58W) RW lamp, 8 foot	$ 3	relamped fixture
T8 2 (<58W) RW lamp, 8 foot	$ 6	relamped fixture
T8 3 (<58W) RW lamp, 8 foot	$ 9	relamped fixture
T8 4 (<58W) RW lamp, 8 foot	$ 12	relamped fixture

New T8/T5 Fixture Incentives

T8/T5Fluorescent Fixtures with Electronic Ballasts - New Fixtures

Incentive applies for the replacement of existing fixtures with new fixtures containing T8 or T5 lamps and electronic ballasts. The T8 or T5 lamps must have a color rendering index (CRI) ≥ 80. The electronic ballast must be high frequency (≥ 20 kHz), have a power factor (PF) ≥ 90, UL listed, and warranted against defects for 5 years. Ballasts for 4-foot lamps must have a total harmonic distortion (THD) ≤ 20% at full light output; and 2-foot or 3 foot lamps with ballasts that have THD ≤ 32% at full light output High output T8/T5 lamps also qualify for this rebate. Specifications of the new fixtures must show CRI and THD. Incentives for this measure are calculated based on the reduction in watts from existing fixtures to new fixtures.

T5 New Fixture	Incentive	Per
T5 1 lamp, Fixture	$ 0.60	watt reduced
T5 2 lamp, Fixture	$ 0.60	watt reduced
T5 3 lamp, Fixture	$ 0.60	watt reduced
T5 4 lamp, Fixture	$ 0.60	watt reduced
T5 2 lamp, High Bay Fixture	$ 0.60	watt reduced
T5 3 lamp, High Bay Fixture	$ 0.60	watt reduced
T5 4 lamp, High Bay Fixture	$ 0.60	watt reduced
T5 6 lamp, High Bay Fixture	$ 0.60	watt reduced

T8 New Fixture	Incentive	Per
T8 1 (25W) lamp, High Perf/RW Fixture, 4 foot	$ 0.60	watt reduced
T8 2 (25W) lamp, High Perf/RW Fixture, 4 foot	$ 0.60	watt reduced
T8 3 (25W) lamp, High Perf/RW Fixture, 4 foot	$ 0.60	watt reduced
T8 4 (25W) lamp, High Perf/RW Fixture, 4 foot	$ 0.60	watt reduced
T8 1 (28W) lamp, High Perf/RW Fixture, 4 foot	$ 0.60	watt reduced
T8 2 (28W) lamp, High Perf/RW Fixture, 4 foot	$ 0.60	watt reduced
T8 3 (28W) lamp, High Perf/RW Fixture, 4 foot	$ 0.60	watt reduced
T8 4 (28W) lamp, High Perf/RW Fixture, 4 foot	$ 0.60	watt reduced
T8 1 (32W) lamp, High Perf/RW Fixture, 4 foot	$ 0.60	watt reduced
T8 2 (32W) lamp, High Perf/RW Fixture, 4 foot	$ 0.60	watt reduced
T8 3 (32W) lamp, High Perf/RW Fixture, 4 foot	$ 0.60	watt reduced
T8 4 (32W) lamp, High Perf/RW Fixture, 4 foot	$ 0.60	watt reduced
T8 1 (17W) lamp, High Perf/RW Fixture, 2 foot	$ 0.60	watt reduced
T8 2 (17W) lamp, High Perf/RW Fixture, 2 foot	$ 0.60	watt reduced
T8 3 (17W) lamp, High Perf/RW Fixture, 2 foot	$ 0.60	watt reduced
T8 4 (17W) lamp, High Perf/RW Fixture, 2 foot	$ 0.60	watt reduced
T8 1 (25W) lamp, High Perf/RW Fixture, 3 foot	$ 0.60	watt reduced
T8 2 (25W) lamp, High Perf/RW Fixture, 3 foot	$ 0.60	watt reduced
T8 3 (25W) lamp, High Perf/RW Fixture, 3 foot	$ 0.60	watt reduced
T8 4 (25W) lamp, High Perf/RW Fixture, 3 foot	$ 0.60	watt reduced
T8 U-Tube 1 (<30W) lamp, Fixture, 4 foot	$ 0.60	watt reduced
T8 U-Tube 2 (<30W) lamp, Fixture, 4 foot	$ 0.60	watt reduced

T8 1 (<58W) lamp, Fixture, 8 foot	$ 0.60	watt reduced
T8 2 (<58W) lamp, Fixture, 8 foot	$ 0.60	watt reduced
T8 3 (<58W) lamp, Fixture, 8 foot	$ 0.60	watt reduced
T8 4 (<58W) lamp, Fixture, 8 foot	$ 0.60	watt reduced
T8 High Bay, 4 (High Perf) lamp, Fixture, 4 foot	$ 0.60	watt reduced
T8 High Bay, 6 (High Perf) lamp, Fixture, 4 foot	$ 0.60	watt reduced
T8 High Bay, 8 (High Perf) lamp, Fixture, 4 foot	$ 0.60	watt reduced

LED Lighting Incentives

LED Bulbs and Lamps

Incentive applies for retrofitting interior and exterior incandescent and halogen screw-in base lamps and pin base lamps with LED integral lamps. LED lamps must be ENERGY STAR® labeled and specifications must be submitted with the ENERGY STAR label. Incentive is per lamp. Select from the "A" shape lamp (the light bulb), decorative lamp (candelabra,globe) and reflector (R, BR, ER, PAR) lamp groups.

LED Light Bulb (A)	Incentive	LED Decorative	Incentive	Reflector, Par, MR16	Incentive	Per
> 0 - 8W	$ 3	>0 - 2W	$ 2	> 0 - 24W	$ 5	lamp
> 8 - 13W	$ 5	>2 - 2.5W	$ 3	>24 - 34W	$ 10	lamp
>13 - 20W	$ 9	>2.5 - 5.5W	$ 4	>34 - 42W	$ 15	lamp
>20 - 30W	$ 13	>5.5 - 11W	$ 5	>42 - 47W	$ 20	lamp
>30 - 44W	$ 20	>11 - 15 W	$ 6	>47- 57W	$ 25	lamp
>44 - 63W	$ 30			>57 - 70W	$ 30	lamp
>63- 90W	$ 45			>70 - 83W	$ 35	lamp
>90 - 120W	$ 55			>83 - 95W	$ 40	lamp
				>95 - 110W	$ 45	lamp
				>110 - 135W	$ 50	lamp
				>135 - 163W	$ 55	lamp
				>163 - 187W	$ 60	lamp
				>187 - 225W	$ 65	lamp

LED Interior Fixtures

Incentive applies for the replacement or retrofit of existing interior light fixtures with LED. New fixtures must be listed on Design Lights Consortium (DLC) List of approved products. Linear LED lamp retrofits for fluorescent fixtures is not eligible. LED retrofits can qualify if the retrofit kits are listed on the DLC List of approved products as a "Retrofit Kit", (not "Linear Replacement Lamp"); maintain the UL Listing and meet Illuminating Engineering Society (IES) requirements. LED categories not certified with DLC that are ENERGY STAR listed may qualify for the Custom Incentive Program.

Design Lights Consortium (DLC) List of approved products at: www.designlights.org/QPL

LED Interior Fixture	Incentive	Per
Troffer 2x2, 2000-3500 lumens, LED	$ 0.60	watt reduced
Troffer 2x2 , 3501-5000 lumens, LED	$ 0.60	watt reduced
Troffer 2x4, 3000-4500 lumens, LED	$ 0.60	watt reduced
Troffer 2x4, 4501-6000 lumens, LED	$ 0.60	watt reduced
Troffer 2x4, 6001-7500 lumens, LED	$ 0.60	watt reduced
Troffer 1x4 , 1500-3000 lumens, LED	$ 0.60	watt reduced
Troffer 1x4, 3001-4500 lumens, LED	$ 0.60	watt reduced
Troffer 1x4, 4501-6000 lumens, LED	$ 0.60	watt reduced
Linear Ambient, <= 3000 lumens, LED	$ 0.60	watt reduced
Linear Ambient, 3001-4500 lumens, LED	$ 0.60	watt reduced
Linear Ambient, 4501-6000 lumens, LED	$ 0.60	watt reduced
Linear Ambient, 6001-7500 lumens, LED	$ 0.60	watt reduced
Linear Ambient, > 7500 lumens, LED	$ 0.60	watt reduced
Directional Recessed, Surface, Pendant Fixture, LED	$ 0.60	watt reduced
Directional Wall Wash Fixture, LED	$ 0.60	watt reduced
Directional Track Light Fixture, LED	$ 0.60	watt reduced
High-Bay Fixtures, <= 10,000 lumens, LED	$ 0.60	watt reduced
High-Bay Fixtures, 10,001-15,000 lumens, LED	$ 0.60	watt reduced
High-Bay Fixtures, 15,001-20,000 lumens, LED	$ 0.60	watt reduced
High-Bay Fixtures, > 20,000 lumens, LED	$ 0.60	watt reduced

LED Exterior Fixtures

Incentive applies for the replacement or retrofit of existing incandescent, mercury vapor,T12 High Output and Very High Output fluorescent, metal halide, or high pressure sodium fixtures with new LED fixtures. Retrofit must not void the fixture UL listing. New LED fixtures must be listed on the Design Lights™Consortium Qualified Products list.

Design Lights Consortium (DLC) List of approved products www.designlights.org/QPL

LED Exterior Fixture	Incentive	Per
Road,Garage,Pole Fixture, <= 5,000 lumens, LED	$ 0.70	watt reduced
Road,Garage,Pole Fixture, 5,001-10,000 lumens, LED	$ 0.70	watt reduced
Road,Garage,Pole Fixture, 10,001-15,000 lumens, LED	$ 0.70	watt reduced
Road,Garage,Pole Fixture, > 15,000 lumens, LED	$ 0.70	watt reduced
Wall Pack ≤ 30W, LED	$ 60	fixture
Wall Pack ≥ 31W & ≤ 74W, LED	$ 80	fixture
Wall Pack ≥ 75W, LED	$ 120	fixture

Exit Signs

Incentive applies for the replacement or retrofit of an existing incandescent or fluorescent exit sign with a high efficiency electroluminescent, photoluminescent, T1 cold cathode and light-emitting diode (LED) exit signs. All new exit signs or retrofit exit signs must be UL 924 listed, have a minimum lifetime of 10 years, and have an input wattage ≤ 5 Watts per face.

Exit Sign	Incentive	Per
LED Exit Sign	$ 30	sign

Solar Light Tubes

Incentive applies for the roof installation of a tubular skylight with a prismatic or translucent lens that concentrates and directs light from the roof opening through a highly specular reflective tube down to the mounted fixture height to an area inside the facility. Solar light tube shall be warrantied for 10 years.

Solar Tube Size	Incentive	Per
Solar Light Tubes ≤ to 10" diameter	$ 15	tube
Solar Light Tubes > 10" and < 21" diameter	$ 30	tube
Solar Light Tubes ≥ to 21" diameter	$ 60	tube

Lighting Controls

Occupancy Sensors

Incentive applies for new passive infrared, ultrasonic detectors and fixture-integrated sensors or sensors with a combination thereof. All sensors must control interior lighting fixtures. The incentive is per sensor. Incentive applies to controls installed on new fixtures, and also on existing fixtures that are not controlled. Lighting controls required by state energy codes are not eligible.

Vacancy Sensors

Incentive applies for installation of new vacancy sensors on a new or existing lighting system. Passive infrared and ultrasonic detectors are eligible. Replacement of existing vacancy sensors is not eligible for this incentive. The control must be configured such that manual input is required to turn on the controlled lighting and the control automatically turns the lighting off. All sensors must control interior lighting fixtures. The incentive is per sensor. Lighting controls required by state energy codes are not eligible.

Multi-Level Lighting Switch

Incentive applies for the installation and operation of new multi-level lighting switches to an existing uncontrolled lighting system where all lights in a given area are on the same circuit or all circuits come on at the same time. Lighting controls required by state energy codes are not eligible. The incentive is per sensor.

Occupancy Controlled Bi-Level Lighting Sensor

Incentive applies for installation of new occupancy control bi-level sensors on new bi-level fixtures. New fixtures may also receive a lighting incentive if the full light wattage is used for the lighting incentive. Fixtures with manual override capabilities are not eligible. During occupied periods, the fixture may operate at full light output. During unoccupied periods, the fixture should operate at lower light output and wattage. To qualify for an incentive, light output must be reduced by at least 50% during standby mode. The incentive is per sensor based on the percent full light at standby mode. Incentive only applies for sensors that control lighting that, without sensors, would be operated continuously.

Lighting Control	Incentive	Per
Wall Sensor	$ 30	sensor
Ceiling Sensor	$ 30	sensor
Fixture Mounted Sensor	$ 30	sensor
Multi Level Sensor	$ 30	sensor
Bi-Level Sensor 33% - 50% of Full Light	$ 30	sensor
Bi-Level Sensor <33% of Full Light	$ 35	sensor

Induction Lighting

New or Retrofit Interior Induction Lighting

Incentive applies for the replacement of existing interior incandescent, mercury vapor, metal halide or high pressure sodium fixtures with new induction or retrofit induction fixtures. Retrofit must not void the fixture UL listing. The replacement induction fixture must be of lower wattage than the existing base case fixture. The incentive is per watt reduced.

Induction Fixture	Incentive	Per
Interior Induction Fixture	$ 0.60	watt reduced

New or Retrofit Exterior Induction Lighting

Incentive applies for the replacement of existing incandescent, mercury vapor,T12 High Output and Very High Output fluorescent, metal halide, or high pressure sodium exterior fixtures with new induction or retrofit induction fixtures. Retrofit must not void the fixture UL listing. The replacement induction fixture must be of lower wattage than the existing base case fixture.

Induction Fixture	Incentive	Per
Exterior Induction Fixture	$ 0.70	watt reduced

HVAC SPECIFICATIONS

Room Air Conditioner

Incentive applies for new room air conditioning units that meet the CEE Tier minimum efficiency specifications listed below. Disposal of existing units must comply with local codes and ordinances.

Room Air Conditioner	EER (CEE Tier 1)	Incentive	Per
<8,000 (0.67 tons)	11.2	$ 35	ton
8,000 to 13,999 (0.67 - 1.2 tons)	11.3	$ 35	ton
14,000 to 1,9999 (1.3 - 1.7 tons)	11.2	$ 35	ton
>19,999 (>1.7 tons)	9.8	$ 35	ton

Packaged Terminal AC and Heat Pump Units (PTAC/PTHP)

Incentive applies for new through-the-wall self-contained packaged terminal air conditioners and heat pumps ≤ 2 tons (24,000 Btuh). Only units that have an Energy Efficiency Ratio (EER) > 13.08 – (0.2556 * Capacity / 1000), where capacity is in Btuh, qualify for the incentive. All EER values must be rated at 95°F outdoor dry-bulb temperature.

Packaged Terminal Unit Type	Incentive	Per
PTAC Packaged Terminal Air Conditioners	$ 50	ton
PTHP Packaged Terminal Heat Pumps	$ 100	ton

Notched V Belts for HVAC Systems

Incentive applies to replacement of a standard V-belt on an existing HVAC fan motor with a cogged V-belt. This incentive applies to variable air volume (VAV) systems only.

Notched V Belts for HVAC Systems	Incentive	Per
Notched V Belts for HVAC Systems -VAV Systems	$ 8	horsepower

Water- and Air-Cooled Chillers

Incentive applies for new chillers where rated kW/ton for the Integrated Part Load Value (IPLV) is less than or equal to the qualifying efficiency shown in the table below. The chiller efficiency rating must be based on AHRI Standard 550/590-2003 for IPLV conditions and not based on full-load conditions. The chillers must meet AHRI Standards 550/590 (I-P)-2011 and be UL listed. The refrigerant must comply with local codes. The AHRI net capacity value should be used to determine the chiller tons. A manufacturer specification sheet with the rated kW/Ton-IPLV or COP-IPLV must accompany the application. Qualifying efficiencies for chillers are summarized below. Central plant or loop systems may apply under the Custom Incentive Worksheet.

Chiller Type	Qualifying Efficiency	Incentive	Per	per 0.01 kW/Ton exceeding qualifying efficiency
Air Cooled Chiller		$ 30	ton	$ 3.5 per ton

Water Cooled Chiller - Centrifugal	IPLV Table	$ 30	ton	$ 3.5 per ton
Water Cooled Chiller - Reciprocating, Scroll, or Screw		$ 30	ton	$ 3.5 per ton

Qualifying IPLV

Chiller Type	Tonnage	Qualifying IPLV Efficiency kW/Ton
Air Cooled Chiller	< 150	0.86
	≥ 150	0.85
Water Cooled Chiller - Centrifugal	< 300	0.54
	300 - 599	0.49
	≥ 600	0.49
Water Cooled Chiller - Reciprocating, Scroll, or Screw	< 75	0.57
	75 - 149	0.55
	150 - 299	0.52
	≥ 300	0.49

Demand Control Ventilation

In order to qualify for this incentive, an active control system must be installed as part of the building's ventilation system. The primary component of the system is a control sensor (a carbon dioxide sensor, occupancy sensor, or turnstile counter). Sensors must be installed on return air systems where no sensors were previously installed. This measure assumes that night time set backs are in operation and that minimum outside air is used by the ventilation at these low occupancy hours. It does not apply to any system with terminal reheat (constant volume or variable volume). Applicant must provide a list of areas and note square feet controlled space. Incentive is per 1,000 square feet of controlled area.

Space Heating Type	Incentive	Per
Demand Control Ventilation - Electric Space Heating	$ 60	1,000 SF of Controlled Area

EQUIPMENT SPECIFICATIONS

LED Traffic Signals

Incentive applies to the retrofitting of traffic and pedestrian signals from incandescent lamps to LEDs. The maximum LED module wattage for each lamp is 25W. Spare lights are not allowed. All lights must be hardwired. Single lamp replacements are not eligible, except pedestrian hand signals. Eligible lamps must meet the ENERGY STAR® Traffic Signal Specification and the Institute for Transportation Engineers specification for traffic signals.

LED Traffic Signal Type	Incentive	Per
8" Round Signals Red	$ 50	lamp
12" Round Signals Red	$ 100	lamp
8" Flashing Signals Red	$ 50	lamp
12" Flashing Signals Red	$ 100	lamp
8" Round Signals Yellow	$ 20	lamp
12" Round Signals Yellow	$ 40	lamp
8" Flashing Signals Yellow	$ 40	lamp
12" Flashing Signals Yellow	$ 100	lamp
8" Round Signals Green	$ 40	lamp
12" Round Signals Green	$ 80	lamp
8" Round Turn Arrows Yellow	$ 15	lamp
12" Round Turn Arrows Yellow	$ 30	lamp
8" Round Turn Arrows Green	$ 15	lamp
12" Round Turn Arrows Green	$ 30	lamp
12" Pedestrian Sign Hand/Man	$ 150	unit

Computer Power Management Software

Incentive applies to the installation of software on a network of computers that allows for centralized control and override of computer power management settings of workstations which include both a computer monitor and CPU (i.e. a desktop or laptop computer on a distributed network). The software must 1) be able to control on/off/sleep states on both the CPU and monitor according to the Network Administrator-defined schedules and apply power management policies to network groups; 2) have capability to allow networked workstations to be remotely wakened from power-saving mode (e.g. for system maintenance or power/setting adjustments); 3) have capability to detect and monitor power management performance and generate energy savings reports; and 4) have capability to produce system reports to confirm the inventory and performance of equipment on which the software is installed. To qualify for the incentive, the computer network must be without existing software enforcing computer and monitor power management capabilities.

Computer Power Management by Computer Type	Incentive	Per
Computer Power Management Software installed on PC	$ 28	unit
Computer Power Management Software installed on Laptop	$ 8	unit

Low Flow Showerheads

Incentive applies for the installation of a low flow showerhead. The installed equipment must be an energy efficient showerhead rated at 2 gpm or less.

Low Flow Showerheads	Incentive	Per

Low Flow Showerheads (Electric Water Heating)	$ 12	unit

Air Compressor with Integrated VSD

Incentive applies to the installation of a new air compressor with a variable frequency drive, load/no load controls or variable displacement control. The air compressor with integrated VSD must have a total motor nominal HP of 40 HP or less. Air compressors larger than 40 HP may be eligible for Custom incentives.

Air Compressor	Incentive	Per
Air Compressor with Integrated VSD	$ 120	horsepower

Compressed Air Low Pressure Drop Filters

Incentive applies to the purchase and use of low pressure drop filters in a compressed air system. These higher quality air filters shall yield a pressure drop in the air compressor not exceeding 1 psid (when new) and 3 psid at element change.

Compressed Air Filters	Incentive	Per
Compressed Air Low Pressure Drop Filters	$ 5	horsepower

Compressed Air No-Loss Condensate Drains

Incentive applies to the installation of new no-loss condensate drains on an air compressor. Replacement or upgrades of existing no-loss drains are not eligible for the incentive.

Compressed Air Drain	Incentive	Per
Compressed Air No-Loss Condensate Drain	$ 250	drain

Variable Speed Drive (VSD) on HVAC Fan or Pump ≤ 200 HP

Incentive applies to the installation of a VSD on an HVAC fan or pump 200 HP or less. Installation of the VSD must accompany the permanent removal or disabling of existing flow control devices. The VSD must be installed with automatic control technology.

The following VSD applications *are not eligible* for this incentive but may be eligible for a Custom Incentive:

- Replacement of existing VSD
- VSD installed on equipment which operates less than 1200 hours per year
- VSD installed on redundant/backup motors
- VSD installed in place of multi-speed flow control equipment (e.g., two-speed cooling tower fans)
- VSD installed for the purpose of "soft-starting" motors
- VSD installed on pumps where affinity laws are not in effect, such as sump pumps
- VSD installed on a forward curve fan where inlet guide vanes are already present
- VSD installed in place of variable pitch blade flow control equipment
- VSD installed on a motor larger than 200 HP

VSD on HVAC	Incentive	Per
VSD on HVAC Fan, Pump, or Cooling Tower Fan	$ 110	horsepower

KITCHEN SPECIFICATIONS

ENERGY STAR® Solid Door Freezers (for replacement only)

Incentive applies for a replacement commercial food-grade ENERGY STAR listed freezer. Outer doors on all sides of the unit must be solid doors, doors may be sliding or hinged. Qualifying models are listed at www.energystar.gov/cfs.

Solid Door Freezer	Incentive	Per
ENERGY STAR Solid Door Freezers (for replacement only)	$ 5	cubic foot

ENERGY STAR Glass Door Freezers and Refrigerators (for replacement only)

Incentive applies for a replacement ENERGY STAR listed refrigerator or freezer. Outer doors on at least one side of the unit are glass doors, doors may be sliding or hinged. Qualifying models are listed at www.energystar.gov/cfs.

Glass Door Freezer and Refrigerator	Incentive	Per
ENERGY STAR Glass Door Freezers (for replacement only)	$ 10	cubic foot
ENERGY STAR Glass Door Refrigerators (for replacement only)	$ 4	cubic foot

Electrically Commutated (EC) Evaporator Fan Motor (Reach-In or Walk-In Refrigerated Cases)

Incentive applies for the replacement of an existing standard-efficiency shaded-pole evaporator fan motor in refrigerated display cases or fan coil in walk-ins. The replacement unit must be an Electronically Commutated Motor (ECM). This measure cannot be used in conjunction with the Evaporator Fan Controls measure.

Evaporator Fan Motor	Incentive	Per
Electrically Commutated (EC) Evaporator Fan Motor (Reach-In or Walk-in Refrigerated Cases)	$ 50	motor

Refrigeration Economizer

Incentive applies for the installation of outside air economizers and evaporator fan controllers on a commercial walk in refrigeration system. Eligible systems can include or exclude a circulation fan.

Economizer	Incentive	Per
Refrigeration Economizer	$ 120	horsepower

Evaporative Fan Controls

Incentive applies for the installation of controls in medium temperature walk-in coolers. The controller reduces airflow of the evaporator fans when there is no refrigerant flow. The measure must control a minimum of 1/20 HP where fans operate continuously at full speed. The measure also must reduce fan motor power by at least 75% during the off cycle.

This measure is not applicable if any of the following conditions apply:

1) The compressor runs all the time with high duty cycle
2) The evaporator fan does not run at full speed all the time
3) The evaporator fan motor runs on poly-phase power
4) The evaporator fan motor is not shaded-pole or permanent split capacitor (PSC)
5) Evaporator does not use off-cycle or time-off defrost.

Evaporative Fan Controls	Incentive	Per
Evaporative Fan Controls	$ 90	motor

Automatic Door Closer for Walk-in Freezers

Incentive applies for the installation of an auto-closer to the main insulated opaque door(s) of a walk-in freezer. The auto-closer must firmly close the door when it is within one inch of full closure.

Automatic Door Closer	Incentive	Per
Automatic Door Closer for Walk-in Freezers	$ 150	door

Beverage Machine Controls

Incentive applies for the installation of new controls on a new or existing refrigerated beverage vending machine (assumed to contain non- perishable bottled and canned beverages). Controls must include a passive infrared occupancy sensor to turn off fluorescent lights and other vending machine systems when the surrounding area is unoccupied for 15 minutes or longer. Also, the control logic should power up the machine at 2-hour intervals to maintain product temperature and provide compressor protection. Incentive does not apply to ENERGY STAR qualified vending machines, which can be eligible under ENERGY STAR Refrigerated Beverage Vending Machine.

Beverage Machine Controls	Incentive	Per
Beverage Machine Controls	$ 180	unit

Snack Machine Controls

Incentive applies for the installation of new controls on a new or existing non-refrigerated snack vending machine. Controls must include a passive infrared occupancy sensor to turn off fluorescent lights and other vending machine systems when the surrounding area is unoccupied for 15 minutes or longer. Incentive does not apply to retrofitting ENERGY STAR qualified vending machines.

Snack Machine Controls	Incentive	Per
Snack Machine Controls	$ 45	unit

ENERGY STAR Refrigerated Beverage Vending Machine

Incentive applies for the installation of a new or rebuilt ENERGY STAR qualified refrigerated beverage vending machine. Qualifying machines can be found at www.energystar.gov.

ENERGY STAR Refrigerated Beverage Vending Machine	Incentive	Per
ENERGY STAR Refrigerated Beverage Vending Machine	$ 250	unit

LED Refrigeration Case Lighting

Incentive applies for the replacement of fluorescent refrigerated case lighting with light emitting diode (LED) source illumination. Fluorescent lamps, ballasts, and associated hardware are typically replaced with pre-fabricated LED light bars and LED driver units. New LED lamps and fixtures must be either ENERGY STAR labeled or on the Design Lights Consortium qualifying fixture list.

LED Refrigeration Case Lighting	Incentive	Per
LED Refrigeration Case Lighting	$ 5	lineal foot

LED Freezer Case Lighting

Incentive applies for the replacement of fluorescent freezer case lighting with light emitting diode (LED) source illumination. Fluorescent lamps, ballasts, and associated hardware are typically replaced with pre-fabricated LED light bars and LED driver units. New LED lamps and fixtures must be either ENERGY STAR labeled or on the Design Lights Consortium qualifying fixture list.

LED Freezer Case Lighting	Incentive	Per
LED Freezer Case Lighting	$ 8	lineal foot

Low Flow Pre-Rinse Spray Valve (Electric Water Heater)

Incentive applies for the installation of low flow pre-rinse spray valves where the hot water heater is electric. Pre-rinse spray valves must have a flow rate of 1.06 gallons per minute or less, and a cleanability performance of 26 seconds per plate or less based on the ASTM Standard Test Method for Performance of Pre-Rinse Spray Valves. Applicants who receive a high efficiency pre-rinse spray valve for free through any other programs are not eligible for this incentive.

Low Flow Pre Rinse Spray Valve	Incentive	Per
Low Flow Pre-Rinse Spray Valve-Electric Water Heater (Cafeteria)	$ 100	unit
Low Flow Pre-Rinse Spray Valve-Electric Water Heater(Non Cafeteria)	$ 75	unit

Low Flow Faucet Aerators (Electric Water Heater)

Incentive applies for the installation of low flow faucet aerator where the water heater is electric. To qualify for this measure, the installed equipment must be an energy efficient faucet aerator for bathrooms rated at 1.5 gallons per minute (GPM) or less, or for kitchens rated at 2.2 GPM or less.

Low Flow Faucet Aerator	Incentive	Per
Low Flow Faucet Aerators - Electric Water Heater	$ 16	unit

ENERGY STAR Hot Food Holding Cabinets

Incentive applies for the installation of ENERGY STAR certified hot food holding cabinets.
Qualifying models are listed at www.energystar. gov/cfs.

Food Holding Cabinets	Incentive	Per
ENERGY STAR Hot Food Holding Cabinets - Half Size (8 cu ft.) - Electric	$ 350	unit
ENERGY STAR Hot Food Holding Cabinets - Three Quarter Size (12 cu ft.) - Electric	$ 500	unit
ENERGY STAR Hot Food Holding Cabinets - Full Size (20 cu ft.) - Electric	$ 1,000	unit

ENERGY STAR Convection Oven

Incentive applies for the installation of an electric ENERGY STAR convection oven. Qualifying models are listed at www.energystar.gov/cfs.

Convection Oven	Incentive	Per
ENERGY STAR Convection Oven Electric	$ 350	unit

ENERGY STAR Griddle

Incentive applies for the installation of an ENERGY STAR electric griddle with a tested heavy load cooking energy efficiency of 70 percent (electric) or greater.

Griddle	Incentive	Per
ENERGY STAR Griddle - Electric	$ 250	unit

ENERGY STAR Dishwasher

Incentive applies for the installation of an ENERGY STAR dishwasher. Qualifying models are listed at: www.energystar.gov/cfs.

Low Temperature Dishwasher	Incentive	Per
Under Counter	$ 475	unit
Stationary Single Tank Door	$ 1,800	unit
Single Tank Conveyor	$ 1,800	unit
Multi Tank Conveyor	$ 2,200	unit
Under Counter	$ 475	unit
Stationary Single Tank Door	$ 1,800	unit
Single Tank Conveyor	$ 1,800	unit
Multi Tank Conveyor	$ 2,200	unit

High Temperature Dishwasher	Incentive	Per
Under Counter	$ 475	unit
Stationary Single Tank Door	$ 1,800	unit
Single Tank Conveyor	$ 1,800	unit
Multi Tank Conveyor	$ 2,200	unit
Under Counter	$ 475	unit
Stationary Single Tank Door	$ 1,800	unit
Single Tank Conveyor	$ 1,800	unit
Multi Tank Conveyor	$ 2,200	unit
Pot, Pan, Utensil	$ 1,800	unit

Demand Control Ventilation for Kitchen Exhaust Hoods

Incentive applies for new control system that varies the exhaust rate of kitchen ventilation (exhaust and/or makeup air fans) based on the energy and effluent output from the cooking appliances (i.,e., the more heat and smoke/vapors generated, the more ventilation needed). This includes the installation of a temperature sensor in the hood exhaust collar and/or an optic sensor on the end of the hood, a variable speed drive on the exhaust fan that will vary the rate of exhaust to what is needed, and a variable speed drive on the makeup air unit, if applicable. Incentive is based on the exhaust fan HP only (not makeup air fan). VSDs on the makeup air fan do not qualify for an additional incentive.

Demand Control Ventilation	Incentive	Per
Demand Control Ventilation for Kitchen Exhaust Hoods	$ 400	horsepower

ENERGY STAR High-Efficiency Ice Makers

Incentive applies for the installation of a new ENERGY STAR qualified commercial ice machine. This excludes flake and nugget type machines. 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 (per day). Qualifying model numbers are listed at **www.energystar.gov** or **www. cee1.org**. A manufacturer's specification sheet must accompany the application that shows rating in accordance to AHRI standard 810.

Ice Maker Size (lbs/24 hrs)	Qualifying kWh/100 lbs	Incentive	Per
101 - 200	8.5	$ 100	unit
201 - 300	7.7	$ 100	unit
301 - 400	6.5	$ 150	unit
401 - 500	5.5	$ 150	unit
501 - 1000	5.2	$ 200	unit
1001 - 1500	5.0	$ 300	unit
> 1500	4.6	$ 300	unit

ENERGY STAR Electric Steam Cookers

Incentive applies for the installation of ENERGY STAR steam cookers. The minimum cooking energy efficiency at heavy load (potato) cooking capacity is 50% for electric steam cookers. Qualifying models are listed at www.energystar. gov/cfs.

Steam Cooker Size	Qualifying Efficiency	Qualifying Idle Energy Rate	Incentive	Per
3 Pan - Electric	≥ 50%	≤ 400 watt	$ 900	unit
4 Pan - Electric	≥ 50%	≤ 530 watt	$1,000	unit
5 Pan - Electric	≥ 50%	≤ 670 watt	$1,100	unit
6 Pan or larger - Electric	≥ 50%	≤ 800 watt	$1,200	unit

CLEAN WATER SPECIFICATIONS

In response to the Federal and State Clean Water initiatives, ComEd is offering the Clean Water program. The incentives are available to entice facilities to invest in newer energy efficient technology in the process of updating their current facilities.
Studies have shown approximately 60 percent of energy consumed in a waste water treatment facility is utilized in the aeration process. Typical savings can range from 20-50 percent of this consumption by installing High Efficiency Aeration Blowers and ancillary systems.

Applicants are encouraged to leverage funding through the Illinois Clean Energy Community Foundation: www.illinoiscleanenergy.org
and the Illinois EPA SRF loan program for water and waste water systems: www.epa.state.il.us/water/financial-assistance/state-revolving-fund
Clean Water applications for High Efficiency Aeration systems are not eligible for any other bonus.

The Clean Water Program provides an incentive of $0.36 per annual kWh saved for the purchase and installation of High Efficiency Aeration Systems according to the following terms:

A. Projects are 100 percent complete.
B. High Efficiency Aeration systems must attain a minimum 25 percent energy savings.
C. High Efficiency Aeration systems are not eligible for any other bonus.
D. The total of the ComEd issued incentives plus funding received by the Illinois Clean Energy Community Foundation (ICECF) cannot exceed 100 percent of purchased equipment costs. Equipment costs are the costs to purchase the high efficiency blowers, aeration diffusers and controls and must be verified with separate invoices.

E. If additional incentives are provided to the project from other public sources (such as Illinois EPA SRF loan program or Illinois Clean Energy Community Foundation (ICECF)), the combined ComEd and other public source incentives cannot exceed 100 percent of the total project cost.

F. Applications must include: A spreadsheet showing kW, kWh and MGD (millions of gallons per day) through the plant by month for one year, reflecting an average or typical plant profile.

G. ComEd will calculate and apply the additional incentive depending on applicant eligibility and funding availability.

Clean Water Program	Incentive	Per
High Efficiency Aeration Systems	$ 0.36	annual saved kWh

CUSTOM PROGRAM SPECIFICATIONS

Custom projects are subject to cost effectiveness evaluation. Custom incentive cannot exceed 75 percent of the total project cost.

Custom Program	Payback	Incentive	Per
Custom Incentives - Electric	1 to 7 Years	$ 0.12	annual saved kWh

All custom projects must submit a Pre-Approval Application.
The method and assumption used by the applicant to calculate the annual savings will be reviewed by ComEd.

ComEd is solely responsible for the final determination of the annual energy savings to be used in calculating the incentive amount.

ComEd also reserves the right to require specific measurement and verification activities such as monitoring both before and after the retrofit and to base the incentive payment on the results of these activities.

The following information should be provided as supporting documentation along with the information required in this application.
ComEd reserves the right to request additional documentation if necessary to determine or verify the energy savings.

- Description of the affected facility (i.e., building type, facility size, major business activities performed).
- Concise project description: Describe BOTH the existing (pre-retrofit or "base case") system and the proposed (post-retrofit or "efficient-case" system. Be as precise, yet concise as possible in the descriptions - include specific quantities and equipment descriptions.
- Provide the quantity, make, model number and rated capacity of BOTH the existing and the new equipment that is being installed, including condition and age of existing equipment. Also provide other nameplate information like operating voltage and rated full load amps where appropriate. The scope of work from the proposal to the client is often helpful to describe the new equipment.

- Provide manufacturer's specifications & performance rating sheets and the website address where further technical information about the equipment performance might be found.
- Identify equipment using the terminology or numbering system used by the client.
  (e.g. "Replace compressor #3 with a new variable speed compressor," or "install a VFD on VAV AHU #3, 5, 7, 8, 9).
- Provide copies of sketches, drawings, equipment lists, or inventories that help to clarify the scope.
- Describe the locations where the equipment is installed.
- Describe BOTH the facility operating hours and the equipment operating schedule for each day of the week. Where equipment operation varies with days of the week or seasons, be sure to provide a description of the operation for all days of the week and all seasons.
- Electronic files containing monitoring and trending data used to determine the savings.
- Operation schedule of the facility or the affected process.
- Describe the fractional loading of the equipment during the hours that it operates.
- Description and documentation of any model used to estimate electric energy consumption (provide the actual model with its various input files if possible).
- Annotate all assumptions or constants used in engineering calculations.
- List of all assumptions utilized in estimating the savings and the source for these assumptions.
- Provide the name of the person(s) who did the savings calculations so that staff can discuss questions.
- Use accepted engineering algorithms and procedures from recognized technical organizations such as ASHRAE, SMACNA, ANSI, etc.
- Use rated performance factors tested under accepted procedures specified by recognized rating agencies such as ARI, AGA, ANSI, ASTM, etc.
- Provide an explanation when equipment performance rating conditions vary from standard conditions.

Application

Using this workbook to complete the application:

1 Follow application guidelines and instructions.
2 Determine incentives to include in the application that meet the Incentives' Specifications.
3 Enter applicable data in all the gold boxes in the General Information worksheet.
4 Enter applicable data in all the gold boxes in the Buildings worksheet for each building. Limit of 20 buildings per application.
5 Enter applicable data in the worksheets for incentives: Lighting, Kitchen, HVAC, Custom, Clean Water, Equipment.

Printing

Printing is completed by returning to each worksheet:

General Information	Go to General Information	, then **File** from Excel menu, **Print**, **Print Active Sheets**
Buildings	Go to Buildings	, then **File** from Excel menu, **Print**, **Print Active Sheets**
Incentives	For applied incentives, Go to	Lighting, Kitchen, HVAC, Custom, Clean Water, ,then **File** from Excel menu, **Print**, **Print Active Sheets**

Entering data in blank cells

This Microsoft Excel workbook utilizes conditional formatting to highlight cells based on inputted data. The preferred method of data entry is to type via the keyboard. If there are multiple cells that the same data could be entered, it is possible to copy and paste, but this may disrupt the conditional formatting. The method of copying and pasting a "value" is ok and does not disrupt the formatting. This is found with a mouse right click, under Paste Special, and then select Values(v).

Entering data in blank cells with pull down menus

There are also cells that require data entry from a pull down menu. Use these values as provided. The text cannot be changed. The cells are indicated with a bold top border at the column heading or individual cell.

pull down

Removing or Deleting entered values

Inputted data can be removed by backspacing in the cell. Multiple cells can be removed by selecting the range, then mouse right click, and Clear Contents. Do not delete rows or colums. Also, do not add rows or columns.

Missing data

A cell may appear filled with the color red, or have red borders. This indicates missing or incorrect data types to determine the incentive.
An incentive total may appear with zeros or blank after entering data. This also indicates missing or incorrect data types.

Application Limits

Section	Limit
Public Entity	1 Entity
Buildings or Facilities	20 unique buildings, facilities, exterior roads, interesections
Lighting	500 lighting measures across 20 buildings
Kitchen - Electric Measures	15 buildings
Kitchen - Dishwashers, DCV	10 buildings
Kitchen - Ice Makers, Steam Cookers	10 buildings
HVAC - ElectricEquipment	10 buildings
HVAC - Chillers	6 buildings
Custom	20 buildings
Clean Water	1 waste water facility
Equipment - LED Traffic Signals, Computer Power, Electric Water Heater, Water Saving	15 buildings
Equipment - VSD on HVAC Supply/Return Fan, VSD on HVAC Pumps, Cooling Tower Fan	10 buildings

Buildings

Subject to funding availability:

Where the public sector facility is located in ComEd electric service areas, facility is eligible for electric efficiency incentives for those measures that produce electric savings.

Complete for each building or facility in the application. Traffic intersections or streets may be used for exterior areas.

Limit of 20 buildings per application. Complete before starting worksheets to enable name in building pulldown lists.
Name, Address, City, Zip and Building or Space Type, are required fields to enable incentive calculations.

Name of Building/Facility			1
Centennial Park Aquitic Center			
Address	*City*	*Zip Code (5 digit)*	
15700 West Ave	Orland park	60462	
Electric Utility Account #:			
959362004			
Project cost for efficiency measures at this building/facility			
$8,648			
Building or Space Type	*Building Heating Equipment Type*	*Building Cooling Equipment Type*	
Miscellaneous	Other Electric System	Other System	

Building Count: 1 (Maximum 20)

Building or Space Type

Auditorium/Assembly:	Performance space, includes theater, arena, recreation center, and convention center.
College/University:	Includes campus buildings for higher education, residence halls, campus recreation facility, research labs.
Exterior:	Unconditioned space outside of building envelope. Includes parking ramps that are not heated/cooled.
Garage:	Unconditioned spaces for parking, either attached or detached from primary building.
Health Care Clinic:	Applies to a facility space used to provide diagnosis and treatment for medical, dental, or psychiatric outpatient care.
Hospital:	General medicine and surgical hospital or hospital campus.

Office:	Applies to facility spaces used for general office, professional, and administrative purposes.Includes all support areas such as kitchens, confe Low Rise: ≤ 4 floors; Mid Rise: 5 - 9 floors; High Rise: ≥ 10 floors
Miscellaneous:	Applies to spaces that do not fit clearly within available categories. Use for Correctional Facility, Public Municipal Library, Airports.
School-Elementary:	Applies to a school serving children in any grades from Kindergarten through sixth grade. Includes spaces for classroom, administrative offic
School-Middle/High:	Applies to a school serving students for grades 7th through 12th .
Warehouse:	Applies to unrefrigerated or refrigerated buildings that are used to store goods, manufactured products, merchandise or raw materials.

Bulding Heating Equipment Type
Select the predominant heating type in the building, or the type most impacted by the project.

Building Cooling Equipment Type
Select the predominant cooling type in the building, or the type most impacted by the project.

General Information

Applying for electric incentives from multiple participating utilities for the same energy efficiency measure is prohibited.

Check One: ☑ Pre-Approval ☐ Final Certification

Public Entity Name:	Village of Orland Park			
Public Sector Class: Local Government	☑ Local Government	☐ Community College	☐ State	
	☐ K-12 School	☐ University	☐ Federal	
Project Manager/ Primary Contact	*First Name*: Scott	*Last Name*: Hiland		*Telephone #, numbers only, ie 6185551212*: 7083622553
	Job Title: Maintenance Electrician		*email*: shiland@orlandpark.org	
Contractor	*First Name*: Bob	*Last Name*: Mccue Jr.		*Telephone #, numbers only, ie 6185551212*: 6308519393
	Company: Thomas Pump Company		*email*: ramtpcoinc.com	
Proposed Start Date: MM/DD/YYYY	09/18/2017	*Proposed Completion Date:* MM/DD/YYYY	11/06/2017	
Electric Utility ☑ ComEd				
Total Electric Incentive Requested — Incentive based on total of all worksheets, up to 75% of the total project cost. Combined ComEd incentives and other public source incentives cannot exceed 100% of the total project cost.	$6,480.00 — No entry needed, automatic calculation	*Total Project Cost* — Total project cost = Equipment + Labor	$ 8,648.00	
Other Public Incentive Funds, $	$ -	Select from Pull Down Menu		

ComEd Use Only							
Electric Incentive:	$ 6,480.00					$ -	
Bonus:	N/A	#N/A %	#N/A	Bonus:	N/A	#N/A %	#N/A
Total Electric Incentive & Bonus:			#N/A				#N/A
Total ElectricIncentive:	$ 6,480.00	Incentive/Cost	74.9 %	(Incentive+Funds)/Cost	75 %	Total + Bonus	#N/A

Equipment Incentive Worksheet 1: LED Traffic Signals, Computer Power, Electric Water Saving, Compressed Air

				Building/Facility (pull down menu)	Select Building	Select Building	Select Building	Select Building	Select Building	Incentive Total Buildings 1 to 5
LED Traffic Signal Type	**Make and Model**	**Incentive Unit**	**Incentive**		**Quantity**	**Quantity**	**Quantity**	**Quantity**	**Quantity**	
8" Round Signals Red		Per Lamp	$50							$0
12" Round Signals Red		Per Lamp	$100							$0
8" Flashing Signals Red		Per Lamp	$50							$0
12" Flashing Signals Red		Per Lamp	$100							$0
8" Round Signals Yellow		Per Lamp	$20							$0
12" Round Signals Yellow		Per Lamp	$40							$0
8" Flashing Signals Yellow		Per Lamp	$40							$0
12" Flashing Signals Yellow		Per Lamp	$100							$0
8" Round Signals Green		Per Lamp	$40							$0
12" Round Signals Green		Per Lamp	$80							$0
8" Round Turn Arrows Yellow		Per Lamp	$15							$0
12" Round Turn Arrows Yellow		Per Lamp	$30							$0
8" Round Turn Arrows Green		Per Lamp	$15							$0
12" Round Turn Arrows Green		Per Lamp	$30							$0
12" Pedestrian Sign Hand/Man		Per Unit	$150							$0
					LED Traffic Signal Incentive Total					$0
Computer Power Management Software		**Incentive Unit**	**Incentive**							
PC	Software Description.....	PC controlled	$28							$0
Laptop	Software Description.....	Laptop Controlled	$8							$0
					Computer Power Mangement Incentive Total					$0
Water Saving Measures		**Incentive Unit**	**Incentive**							
Low Flow Shower heads (Electric Water Heating)		Per Unit	$12							$0
					Water Saving Measure Incentive Total					$0
Compressed Air Measures		**Incentive Unit**	**Incentive**		Motor HP / QTY	Motor HP / QTY	Motor HP / QTY	Motor HP / QTY	Motor HP / QTY	
Air Compressor with Integrated VSD		Per HP	$120							0.00
Compressed Air Low Pressure Drop Filters		Per HP	$5							0.00
Compressed Air No Loss Condensate Drain		Per Drain	$250							0.00
					Compressed Air Measures Incentive Total					0.00

Equipment Incentive Worksheet 2: VSD on HVAC Supply/Return Fan, VSD on HVAC Pumps, Cooling Tower Fan

VSD on HVAC Supply Fan or Return Fan

Fan Type/Unit Number	Estimated Annual Equipment Hours	Control Before VSD (pull down menu)	Motor HP	Incentive Per HP	Building/Facility (pull down menu): Centennial Park Aquatic — VSD Quantity	Select Building — VSD Quantity	Select Building — VSD Quantity	Select Building — VSD Quantity	Select Building — VSD Quantity	Incentive Total Buildings 1 to 5
				$110						$0
				$110						$0
				$110						$0
				$110						$0
				$110						$0
				$110						$0
				$110						$0
				$110						$0
				$110						$0
				$110						$0
				$110						$0
					VSD Fan Incentive Total					$0

VSD on HVAC Pumps or Cooling Tower Fan

Select:Pump, Cooling Tower Fan (pull down menu)	Fan,Pump Unit Number	Annual Hours	Motor Efficiency	Motor HP	Incentive Per HP	VSD Quantity	VSD Quantity	VSD Quantity	VSD Quantity	VSD Quantity	
					$110						$0
					$110						$0
					$110						$0
					$110						$0
					$110						$0
					$110						$0
					$110						$0
					$110						$0
						VSD Pump,Cooling Tower Incentive Total					$0

Kitchen Incentive Worksheet 1: Electric Kitchen Items

Electric Kitchen Measure	Incentive Unit	Incentive	Building/Facility (pull down menu) Select Building Quantity	Select Building Quantity	Select Building Quantity	Select Building Quantity	Select Building Quantity	Incentive Total Buildings 1 to 5
Low Flow Pre-Rinse Spray Valve - Electric Water Heater (Cafeteria)	Per Valve	$100						$0
Low Flow Pre-Rinse Spray Valve - Electric Water Heater (Non-Cafeteria)	Per Valve	$75						$0
Low Flow Faucet Aerators - Electric Water Heater	Per Valve	$16						$0
ENERGY STAR® Solid Door Freezers	Per Cubic Foot	$5						$0
ENERGY STAR Glass Door Freezers	Per Cubic Foot	$10						$0
ENERGY STAR Glass Door Refrigerator	Per Cubic Foot	$4						$0
Electrically Commutated Motor for Walk-in or Reach-in Cooler	Per Motor	$50						$0
Refrigeration Economizer	Per HP	$120						$0
Evaporative Fan Controls	Per Motor	$90						$0
Automatic Door Closers for Walk-In Freezers	Per Door	$150						$0
Beverage Machine Control	Per Unit	$180						$0
Snack Machine Control	Per Unit	$45						$0
ENERGY STAR Refrigerated Vending Machine	Per Unit	$250						$0
LED Refrigeration Case Lighting	Per Linear Foot	$5						$0
LED Freezer Case Lighting	Per Linear Foot	$8						$0
ENERGY STAR Hot Food Holding Cabinets - Half Size (8 cu ft.)	Per Unit	$350						$0
ENERGY STAR Hot Food Holding Cabinets - Three Quarter Size (12 cu ft.)	Per Unit	$500						$0
ENERGY STAR Hot Food Holding Cabinets - Full Size (20 cu ft.)	Per Unit	$1,000						$0
ENERGY STAR Convection Oven	Per Unit	$350						$0
ENERGY STAR Griddle	Per Unit	$250						$0
			Electric Kitchen Measures Total					$0

Kitchen Incentive Worksheet 2: Dishwashers, DCV for Exhaust Hoods

Energy Star Dishwashers

Low Temperature	Building Hot Water	Booster Type	Incentive	Incentive $	Building/Facility (pull down menu): Select Building	Select Building	Select Building	Select Building	Select Building	Incentive Total Buildings 1 to 5
					Quantity	Quantity	Quantity	Quantity	Quantity	
Under Counter	Electric	*Select Booster*	Per Unit	$475						$0
Stationary Single Tank Door	Electric	*Select Booster*	Per Unit	$1,800						$0
Single Tank Conveyor	Electric	*Select Booster*	Per Unit	$1,800						$0
Multi Tank Conveyor	Electric	*Select Booster*	Per Unit	$2,200						$0
					Energy Star Dishwasher(Electric Heat HW) Total					$0

High Temperature	Building Hot Water	*Booster Type*	Incentive	Incentive $						
Under Counter	Electric	*Select Booster*	Per Unit	$475						$0
Stationary Single Tank Door	Electric	*Select Booster*	Per Unit	$1,800						$0
Single Tank Conveyor	Electric	*Select Booster*	Per Unit	$1,800						$0
Multi Tank Conveyor	Electric	*Select Booster*	Per Unit	$2,200						$0
					Energy Star Dishwasher(Electric Heat HW) Total					$0

Demand Control Ventilation for Kitchen Exhaust Hoods

Unit Description	*Fan Motor hp*	Incentive	Incentive $	Quantity	Quantity	Quantity	Quantity	Quantity	
Describe DCV Unit.....		Per hp	$400						$0

Kitchen Incentive Worksheet 3: High Efficiency Ice Makers, Steam Cookers

High Efficiency Ice Makers

Size (lbs per 24 hrs)	Qualifying kWh/100 lbs	Installed kWh/100 lbs	Incentive	Incentive $
101 - 200	8.5		Per Unit	$100
201 - 300	7.7		Per Unit	$100
301 - 400	6.5		Per Unit	$150
401 - 500	5.5		Per Unit	$150
501 - 1000	5.2		Per Unit	$200
1001 - 1500	5.0		Per Unit	$300
> 1500	4.6		Per Unit	$300

Steam Cookers

Electric Steam Cookers

Electric Steam Cooker Size	Qualifying Cooking Energy Efficiency	Idle Energy Rate	Incentive	Incentive $
3 Pan	≥ 50 %	≤ 400 watt	Per Cooker	$900
4 Pan	≥ 50 %	≤ 530 watt	Per Cooker	$1,000
5 Pan	≥ 50 %	≤ 670 watt	Per Cooker	$1,100
6 Pan or larger	≥ 50 %	≤ 800 watt	Per Cooker	$1,200

Building/Facility
(pull down menu)

Select Building	Select Building	Select Building	Select Building	Select Building	Incentive Total Buildings 1 to 5
Quantity	**Quantity**	**Quantity**	**Quantity**	**Quantity**	
					$0
					$0
					$0
					$0
					$0
					$0
					$0
High Efficiency Ice Maker Incentive Total					$0
					$0
					$0
					$0
					$0
Electric Steam Cooker Incentive Total					$0

Custom Incentive Application

All custom projects must submit a Pre-Approval Application. 1

Building/Facility (pull down menu selection)	Address	Project #
Centennial Park Aquitic Center	15700 West Ave Orland park 60462	

The project will be (Y or N, or from pulldown menu) N Part of new facility | Y Addition to existing facility | N Replacement of existing equipment

Was the project identified in a Retro-Commissioning Study? N

Average Cost per kWh from electric bill ($/kWh) $0.04

The total ComEd issued incentives cannot exceed 75 percent of the total project cost. Incentive for Custom program is $0.12 per annual kWh saved for electric measures with payback of 1-7 yrs and involve capital investment in new equipment. The savings summary below is automatically calculated based on the measure data.

Annual Electric Cost Savings ($) = kWh/yr x $/kWh	$2,006.10
Payback (years) = Measure Cost/Annual Electric Cost Savings	4.3
Electric Incentive($)=Annual Electric Savings (kWh/yr) x $0.12 / kWh	$6,480.00

Project Description

Installing VSD's on existing pool filtration pumps to save on consumption of power

Calculation Method: Briefly describe the method to calculate annual electric energy savings in kWh (upload additional documentation).

Taking an amp reading on all three legs of power at 100%,75%,50% . 40HP B.O.Y. 47.6 48.1 46.4 100%/47.4 47.9 46.4 75%/46.6 47.0 45.6 50%

Taking an amp reading on all three legs of power at 100%,75%,50% . 25HP B.O.Y. 28.2 28.1 26.5 100%28.1 28.0 26.5 75%/27.7 27.7 26.1 50%

Existing Equipment: Describe existing equipment and operation strategy (i.e., operating hours, efficiency ,etc.)	Proposed Equipment: Describe proposed equipment and operation strategy (i.e., operating hours, efficiency, etc.)	Measure Type (pull down)	kWh / kW	Cost / Incremental / Life	Op
25HP Filtration Pump CAT# 10-50957 91% efficient Us Motor CAT#UJ25E2DM 3864 Apporxmate Operating Hours 3864	VSD installed to save on energy during high bather loads and low bather loads in off peak hours	Equipment	27,000 /	3,888 / / 10yrs	Y
40HP Filtration Pump CAT# 10-50957 93% efficient Weg Motor CAT#04018EP3E324JM-W22 Apporxmate Operating Hours 3864	VSD installed to save on energy during high bather loads and low bather loads in off peak hours	Equipment	27,000 /	4,760 / / 10yrs	Y
Measure 3			/ /	/ /	
Measure 4			/ /	/ /	
Measure 5			/ /	/ /	

Lighting Worksheet - Print Version

	Building Facility	Room/Area	Existing Fixture/Lamp		Typical Watts	per	Qty	Efficient Fixture/Lamp		Typical Watts or User Watts	per	Qty	Model, Mfg #	
	Watt Reduction	Watt Reduction (watts)	Watt Reduction $/Unit	Watt Reduction ($)	Fixture or Lamps	Fixt or Lamps ($/Unit)	Lamps/Fixture ($ Inc)	Delamping	Delamp ($/Unit)	Delamp ($)	Controls	Controls ($/Unit)	Controls ($)	Total ($)

Clean Water Incentive Program Application

Building/Facility	*Address*	*Project #*
Select Building		

The project will be (Y or N, or pulldown menu) N Part of new faclity N Addition to existing facility Y Replacement of existing equipment

Is existing equipment operational? Y

Was the project identified in a Retro-Commissioning Study? N

Project Description

Existing Equipment: Describe existing equipment and operation strategy (i.e., operating hours, efficiency, etc.)	Proposed Equipment: Describe proposed equipment and operation strategy (i.e., operating hours, efficiency, etc.)

Calculation Method: Briefly describe the method to calculate annual electric energy savings in kWh (upload additional documentation).

Total Equipment Cost	$	Total Labor Cost	$
Annual Electric Savings Estimate (kWh/yr)	kWh/yr	Annual Electric Use (kWh/yr)	kWh/yr
Incentive ($) = Annual Electric Savings (kWh/yr x $0/kWh) *High Efficiency Aeration System Incentive is $/kWh reduced*		Percent of Total Equipment Cost (TEC) = Incentive/TEC *Total ComEd issued incentive cannot exceed 100% of purchased Equipment Costs*	

Incentive Summary

Measure Worksheet	Electric Incentives	
Kitchen 1	$0.00	
Kitchen 2 Dishwasher, DCV	$0.00	
Kitchen 3 IceMaker, Cooker	$0.00	
Kitchen Total	**$0.00**	
HVAC Equipment	$0.00	
Chillers	$0.00	
HVAC Total	**$0.00**	
Equipment 1	$0.00	
Equipment 2	$0.00	
Equipment Total	**$0.00**	
Lighting - Watt Reduction	$0.00	
Lighting - Lamps,Fixtures	$0.00	
Lighting - Lamp Removal	$0.00	
Lighting Controls	$0.00	
Lighting Total	**$0.00**	
Custom-Centennial Park Aquitic Center	$6,480.00	
Custom Total	**$6,480.00**	**$0.00**
Clean Water	**$0.00**	
Application Total:	**$6,480.00**	**$0.00**

General Information:	**94%**	**Complete**
Building Count	**1**	**Buildings**
Applicant Certifications	**0%**	**Complete**