

**Town of Branford**  
**RFP**  
**Replacement of Existing Exterior Lights with**  
**High Efficiency LED Lighting**  
**Addendum #1**

**Date:** July 31, 2020

**Submission Date:** August 12<sup>th</sup>, 2020, remains unchanged

Prospective bidders, and all those concerned, are hereby informed that the following is made a part of the bid documents, which should be amended as follows:

**Note:**

**Mandatory Pre-bid Meeting:**

All potential bidders are required to attend a mandatory pre-bid meeting on August 4, 2020 at 9:30 am at the project site Branford High School located 185 E Main St, Branford, CT 06405 and 11:00 am at Branford Veteran's Park located at 46 Church Street Branford CT 06405.

**Refer to attached**

**MISCELLANEOUS:** Eversource 1-0175 Existing Building Cap Sheet Mid-Year V.1  
2020 EO Lighting Projects Data Collection V1.1

1. Eversource 1-0175 Existing Cap Sheet Mid-Year V.1 (See attached)
2. 2020 EO Lighting Projects Data Collection V1.1 (See attached)

Respectfully submitted,

Diana McCarthy-Bercury  
Sustainability and Compliance Manager

**Please acknowledge receipt of addendum below and submit with your bid submittal.**

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Company:** \_\_\_\_\_

# EXISTING BUILDINGS

## TIERED PROJECT INITIATIVE

	GREATER OF		PLUS	Not to exceed	
	per kWh	per kW	per CCF	PROJECT CAP	PROJECT QUALIFICATION
<b>TOTAL COMPREHENSIVE INCENTIVE</b>					
Three or more End Uses	\$0.75	\$1000/ summer peak	\$6.50	75% of Installed Cost	<b>No one end use can exceed 90% of the project's value based on annual savings and each qualifying end use must contribute at least 3%</b> <ul style="list-style-type: none"> <li>• If lighting is one End Use, must be at a minimum Enhanced Performance Lighting</li> <li>• At least 25% of the savings must be from retrofit measures</li> </ul>
<b>MULTI END USE OR EMS</b>					
Minimum two End Uses	\$0.60	\$1000/ summer peak	\$5.50	60% of Installed Cost	<b>No one end use can exceed 90% of the project's value based on annual savings and each qualifying end use must contribute at least 3%</b> <ul style="list-style-type: none"> <li>• At least 25% of the savings must be from retrofit measures</li> <li>• If lighting is one End Use, must be at a minimum Enhanced Performance Lighting</li> <li>• A control system that only controls lighting is not an EMS. A control device/system that just establishes the space temperature is not an EMS</li> </ul>
<b>SINGLE NON LIGHTING END USE</b>					
Minimum one non-lighting End Use	\$0.50	\$1000	\$4.50	50% of Installed Cost	<ul style="list-style-type: none"> <li>• Project must impact at least one non-lighting End Use</li> <li>• If lighting is the only measure, - DO NOT USE - refer to below "Lighting Measures" table</li> </ul>
End use is defined as Gas or Electric, impacting Heating; Cooling; Lighting; Process; Domestic Water Heating; Refrigeration; Motors and Drives					

## LIGHTING MEASURES

	GREATER OF		PLUS	Not to exceed	
	per kWh	per kW	per CCF	PROJECT CAP	PROJECT QUALIFICATION
<b>HIGH PERFORMANCE LIGHTING</b>					
LED Fixtures with Networked Lighting Controls System	\$0.75	\$1000/ summer peak	NA	75% of Installed Cost	80% of project load must utilize a networked lighting control system, as defined by DLC. System must be capable of energy monitoring and demand response, as defined by DLC. Customer must also provide control narrative for the system, and it must be fully commissioned with reporting and demonstrated demand response capability.
<b>ENHANCED PERFORMANCE LIGHTING</b>					
LED Lighting with Luminaire Level Lighting Controls or Wirelessly Accessible Controls	\$0.55	\$1000/ summer peak	NA	60% of Installed Cost	80% of project load must be controlled LED fixtures <sup>1</sup> , with all controlled LED fixtures wirelessly accessible to initialize, configure, and commission. Individual fixture addressability and luminaire level lighting control (LLC) and compliance with LLC capabilities as outlined by DLC is optional. Must include and demonstrate a minimum of one control strategy per fixture and two different control strategies at the project level (e.g. occupancy, daylighting, task tuning/high end trim).
<b>STANDARD LIGHTING</b>					
Must use Expedited Lighting Application	\$0.40	\$1000/ summer peak	NA	45% of Installed Cost	The program administrator reserves the right to review each claim and direct you to the required pathway. <b>For Express Lighting Rebate refer to Lighting Rebate Form.</b> <a href="https://www.energizect.com/your-business/solutions-list/Express-Service-Lighting-Rebate">EnergizeCT.com/your-business/solutions-list/Express-Service-Lighting-Rebate</a> .  <b>NOTE:</b> Type C retrofit LED full kits or type C lamps with external drivers are the only (tube) product options that qualify for this incentive.

RETROFIT MEASURES	EXISTING BUILDING RETROFIT
Cumulative Cap per Federal Tax ID	\$500,000
Municipal Finance Cap (total per municipality) - Eversource	\$1,000,000
Municipal Finance Cap (total per municipality) - UI	\$250,000

Project Caps and Incentive Levels For Eversource CT and United Illuminating (UI) - Effective 6/1/20

[EnergizeCT.com/your-business/solutions-list/Energy-Opportunities](https://www.energizect.com/your-business/solutions-list/Energy-Opportunities)

Incentive caps and qualification criteria are subject to change at any time. Availability of funding is not guaranteed and the Utilities are not responsible for any costs or damages incurred by the Participant if funding for this program is reduced or eliminated. Retainage may be applied to any project if final payment is contingent on delivery of performance results or information. Utilities shall have final determination of eligible incentives and energy savings. A Letter of Agreement/ Authorization detailing available incentives and energy savings for each proposed measure must be signed by Utilities Management before any equipment is ordered to be eligible for incentives.

IECC 2015 is the baseline energy code. All references to kWh and CCF savings shall refer to annual gross savings.

<sup>1</sup>All LED fixtures must be DesignLights Consortium® (DLC) or ENERGY STAR® qualified. The lists of qualifying products can be found at [www.designlights.org](http://www.designlights.org) and [www.energystar.gov](http://www.energystar.gov), respectively.

# Program Overview

## Business Sustainability Challenge

Tackle common business issues like utility costs, waste, and employee engagement in the context of sustainability and energy efficiency. Become competitive and resilient by following recommended action steps that are accessible, achievable, and profitable.

## Commercial Clothes Washer Rebate

Make your laundry facility work for your bottom line. Purchase an energy-saving ENERGY STAR® model for your next commercial clothes washer and earn a \$200 rebate for each qualifying machine. And, get high performance with every load!

## Cool Choice Rebate

Save electricity and cut energy costs in your business by installing qualifying high-efficiency air conditioning and heat pump systems. Rebates help to offset the costs.

## Energy Opportunities

With today's energy costs, delaying to upgrade old inefficient equipment can actually cost you money. Invest in energy-efficient equipment now to reduce operating costs and improve productivity, ease-of-use, comfort and even aesthetics.

## Low-Interest Loans for Commercial & Industrial Customers

Make energy savings pay off with low-interest financing for qualified energy-efficient improvements. Coupled with incentives, it can make your project a reality so you can start saving sooner.

## Natural Gas Water Heating Rebate

With efficiencies of up to 85 percent or more, installing high-efficiency natural gas water heating equipment is a smart way for businesses to save gas and cut energy costs. Rebates let you enjoy the energy-saving benefits without paying a premium price.

## Process Reengineering for Increased Manufacturing Efficiency

Make your manufacturing operations more productive with "lean manufacturing" training. You'll learn techniques to streamline product flow, eliminate or reduce waste, improve production efficiency, minimize environmental impact and reduce energy consumption.

## Small Business Energy Advantage

A utility-authorized contractor performs a no-cost, no-obligation energy assessment (audit) of your facility and then manages the installation of the energy-saving improvements. This one-stop service, combined with our incentives and zero-interest, on-bill payment plans, allows you to get started right away.

## C&LM Financing-Small Businesses & Municipalities

Loans make it easier for small businesses and municipalities to invest in energy-efficient improvements. Repayment terms up to four years and an on-bill payment option make it even easier!

## Commercial Kitchen Equipment Rebate

Put energy savings on the front burner with rebates on energy-saving ENERGY STAR® commercial kitchen equipment. You'll reduce energy costs, improve performance, and because many energy-saving options produce less heat, you might also reduce your cooling costs.

## DEEP-Sponsored Granted Financial Incentives & Low-Interest Loans

Reduce operating costs with a combined heat and power system. Financial incentives and low-interest loans, sponsored by the Connecticut Department of Energy and Environmental Protection (DEEP), can make it a cost-effective investment. Capital grants of \$200 per kilowatt are available for qualifying projects of one megawatt or less in Eversource or United Illuminating's service territory. To qualify, a project must reduce energy costs by an amount equal to or greater than the project's installation cost within 10 years of its installation.

## Express Service and Instant Lighting Rebates

It is easy for businesses to save electricity and cut energy costs by installing high-efficiency lighting. Now with paper and instant rebates, you can enjoy all the energy-saving benefits without paying a premium price. What a bright idea!

## Natural Gas Heating Equipment Rebate

A smart way for businesses to save gas and cut energy costs is by installing high-efficiency natural gas heating equipment. With efficiencies of up to 98 percent, they are the most efficient heating equipment available.

## Programs for Municipal Utility Customers

Business customers of Connecticut's municipal utilities can also benefit from smart energy options. To learn more about available programs, please contact your utility using the information below.

## Commercial Multifamily Properties

Reduce energy and operating costs and make the multifamily property you own or manage more comfortable and environmentally friendly with the Multifamily Initiative.

## Energy Conscious Blueprint

Maximize your new facility's energy performance by planning for efficiency from the beginning. Utility energy experts help to identify and integrate energy-saving opportunities into your plans early.

## Green Buildings Tax Credit Program

Connecticut is offering a new incentive to build or renovate commercial buildings to meet or exceed U.S. Green Building Council's Leadership in Environmental and Energy Design (LEED) Gold Standard. The Green Buildings Tax Credit makes it more cost-effective for builders and developers to invest in energy-efficient construction that supports our clean energy future.

## Natural Gas Infrared Heater Rebate

Large structures, such as warehouses and loading docks, can reduce the heat needed to maintain comfortable temperatures by 15 percent with low-intensity natural gas infrared heaters. Feel the heat and see the savings with rebates!

## Operations and Maintenance

Improve your facility's electrical and thermal efficiency through operational changes and repairs rather than capital investments.

## Retro-Commissioning

A pre-qualified retro-commissioning engineering firm evaluates how your mechanical equipment, lighting and related controls operate and function together. Suggested improvements are supported with sustainable energy management strategies.

## EMS Systems

We are often able to incentivize the costs associated with putting in EMS strategies not previously existing or required by code.

### Strategies to Consider

- Optimal Start Stop
- Dual Enthalpy Economizer
- CO<sub>2</sub> or Demand Controls Ventilation
- Hot Water Reset
- Chilled Water Reset
- Condenser Water Reset
- Static Pressure Reset
- Discharge Temperature Reset

### Instructions

<b>LED requirements:</b>	<ol style="list-style-type: none"> <li>1. Include copy of LED spec sheet.</li> <li>2. Include copy of Design Lights Consortium (DLC) approval or Energy Star approval. This can be a website screen shot.</li> <li>3. Include the DLC Product ID in Column L, this will help prevent mis-identification and improve approval time.</li> <li>4. LEDs must be approved by DLC or Energy Star prior to submitting project for review.</li> <li>5. The descriptions of LEDs in this spreadsheet must match the model number, manufacturer, and product code listed on the included spec sheet and DLC/Energy Star approval.</li> <li>6. For High Performance Lighting projects, please add a new tab in the beginning of this workbook and paste in the required control narrative that should come from either the customer or contractor.</li> </ol>	
<b>Tab Name</b>	<b>Instructions</b>	
<b>Project Data</b>	Fill in all of the red background cells with the requested information. Fill in the yellow background cells as applicable.	
<b>Fixture Data</b>	Column A "Area Description"	Enter a description of the area where the lights are located, be specific and avoid repeated descriptions.
	Column B "Unit Quantity Before"	Enter the quantity of fixtures for this area.
	Column C "Description Before"	Enter a description of the existing lights. Note the <b>lamp type, lamp wattage, quantity of lamps in the fixture, and ballast type</b> if applicable. Use the "Existing Wattage Table" tab for the correct configuration and wattage.
		Examples: Compact Fluorescent, (1) 23W lamp Fluorescent, (4) 49" 34W T12 ES lamp, Electronic Ballast Fluorescent, (2) 48" 32W T8 lamp, Instant Start Ballast Incandescent, (1) 60W A-lamp Halogen Incandescent, (1) 150 W lamp Metal Halide, (1) 250W lamp
	Column D "Watts/ Unit Before"	Enter wattage for existing fixture, include ballast if applicable. Use the "Existing Wattage Table" tab for the correct configuration and wattage.
	Column E "Annual Hours Before"	Enter annual usage hours for existing fixture. If over 6,000 hours, provide written verification to corroborate.
	Column G "Item Type"	Hover over the gray cells for a description of the choices. <b>Type A or B TLEDs are not eligible for incentives in this program, they may be entered for reference only.</b>
	Column H "Lighting Group Type"	<b>Standard</b> – LEDs only. Includes fixtures, retrofit kits, and Type C TLEDs. <b>Enhanced Performance</b> – Minimum of 1 control strategy per fixture and 2 strategies across entire project. System must be able to <b>wirelessly</b> initialize, configure, and commission the LED fixtures. <b>High Performance</b> – Requires use of DLC qualified Networked Lighting Control system with energy monitoring and load shedding (demand response) capabilities. Requires control narrative & requires 6 months of post-installation energy monitoring.
	Column I "Unit Quantity After"	Enter the quantity of fixtures / lamps.
	Column J "Proposed Equipment - Manufacturer"	Enter the <b>manufacturer</b> of the proposed lights.
	Column K "Proposed Equipment - Model Number"	Enter the <b>model number</b> of the proposed lights, include the driver type if applicable.
	Column L "DLC Product ID"	Enter the <b>DLC Product ID</b> for items on the DLC Qualified Product List, not applicable to Energy Star Certified LEDs. <i>DLC Product ID: ABCDEFGH</i>
	Column M "Watts/ Unit After"	Enter wattage for proposed fixture, include driver if applicable. Wattage should be taken directly from manufacturer's cut sheet, not DLC or Energy Star approval.
	Column N "Dimmable Fixture or Lamp (Y or N)"	If the new fixtures have dimming capability - click Y If the new fixtures don't have dimming capability - click N
	Column O "NEW" Occupancy Sensor Controlled? (Y or N)"	If fixtures have existing occupancy sensors - click N If fixtures don't have existing occupancy sensors and they are to be added - click Y If occupancy sensors are NOT going to be added to control this fixture group - click N If some of the fixtures in a group are to be controlled by new occupancy sensors and others are not, they must be split onto separate lines on the sheet.
	Column P "Occupancy Sensor Dim Level (%)"	If the fixture will dim when the sensor indicates the space is unoccupied, enter the dimmed light level as a percentage. (ie enter 60% if the lights dim to 60% light output)
	Column Q "Daylight Controls Used?"	Enter "Y" if the items in that line that are using Daylight Harvesting capabilities to dim the lights when ambient daylight is available. Specific daylighting data must be entered on the "Daylighting" tab. <b>Only select "Y" for lights in the daylight area.</b> The daylight area is the portion of a building's interior floor area that is illuminated by natural light.
	Column R "High End Trim %"	Enter the proposed maximum light output, if the LED will have a High End Trim level set.
	Column S "Installed Cost/ Fixture"	Enter the installed cost per fixture / lamp.

TLED Type	Definition
Type A	Linear Replacement Lamp which operates on the existing ballast.
Type B	Linear Replacement Lamp which operates on line voltage and bypasses the existing ballast.
Type C	Linear Replacement Lamp which requires rewiring of the existing fixture to replace the ballast with a new external driver.

Capability	Definition
Networking of Luminaires and Devices	The capability of individual luminaires and control devices to exchange digital data with other luminaires and controls devices on the system. This capability is required at the room, space, or area
Occupancy Sensing	The capability to affect the operation of lighting equipment based upon detecting the presence or absence of people in a space.
Daylight Harvesting / Photocell Control	The capability to automatically affect the operation of lighting based on the amount of daylight and/or ambient light that is present in a space, area, or exterior environment. This capability is typically called Daylight Harvesting for interior systems, and Photocell Control for exterior systems.
High-End Trim	The capability to set the maximum light output to a less-than-maximum state of an individual or group of luminaires at the time of installation or commissioning. High-End Trim must be field reconfigurable.
Energy Monitoring	The capability of a system, luminaire, or device to report its own energy consumption, or the energy consumption of any controlled device via direct measurement or other methodology. The method by which the system implements this capability must be clearly described. The sampling frequency and accuracy of reported data must be specified.

### LIGHTING MEASURES

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<b>HIGH PERFORMANCE LIGHTING</b>						
LED Fixtures with Networked Lighting Controls System	\$0.65	\$1000/summer peak	NA	65% of Installed Cost		80% of project load must utilize a networked lighting control system, as defined by DLC. System must be capable of energy monitoring and demand response, as defined by DLC. Customer must also provide control narrative for the system, and it must be fully commissioned with reporting and demonstrated demand response capability.
<b>ENHANCED PERFORMANCE LIGHTING</b>						

LED Lighting with Luminaire Level Lighting Controls or Wirelessly Accessible Controls	\$0.45	\$1000/summer peak	NA	45% of Installed Cost	80% of project load must be controlled LED fixtures <sup>1</sup> , with all controlled LED fixtures wirelessly accessible to initialize, configure, and commission. Individual fixture addressability and luminaire level lighting control (LLC) and compliance with LLC capabilities as outlined by DLC is optional. Must include and demonstrate a minimum of one control strategy per fixture and two different control strategies at the project level (e.g. occupancy, daylighting, task tuning/high end trim).
<b>STANDARD LIGHTING</b>					
	\$0.25	\$1000/summer peak	NA	25% of Installed Cost	Prescriptive unit incentives use rebate form where applicable. <b>For Express Lighting Rebate refer to Lighting Rebate Form.</b> <a href="http://EnergyCT.com/your-business/solutions-list/Express-Service-Lighting-Rebate">EnergyCT.com/your-business/solutions-list/Express-Service-Lighting-Rebate</a> . <b>NOTE:</b> Type C retrofit LED full kits or type C lamps with external drivers are the only (tube) product options that qualify for this incentive.

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