



Part of the AVANGRID Family

Lighting and Controls

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Agenda

- Pre-qualification of EO Lighting
- Retrofit Lighting Tiers Overview
- In-depth on Three Lighting Tiers
- Project Closeout Best Practice
- Express & Midstream Lighting Offerings

Pre-Qualification Tool for Lighting Projects

Effective February 2021	Effective Second Half of 2021
Eversource: use of pre-qual tool (currently, Amplify) highly recommended	Eversource and UI: use of pre-qual tool will be required Note: RFP is underway for all lighting services (incl. Pre-qualification)

Benefits:

- Less documentation – no specs or DLC cuts needed
- Reduces error
- Faster turnaround

Pre-Qualification Tool for Lighting Projects

Measures

Estimate: Berlin Office

Space Name: Oscars Office

Configured Spaces [Add](#)

[Copy](#) Sort: A-Z or As Entered

- Office 1
- Office 2
- Allens Office
- Lobby
- Shipping
- Oscars Office**

[Add New]

Existing	Qty	Q i
Proposed	Qty	Trim Pct Q i

[Save](#) [Cancel](#)

- Office 1
- Office 2
- Allens Office
- Lobby
- Shipping**
- Oscars Office

Occupancy Sensor

Quantity

Vacancy Sensor

Dimming Level (%)

Retrofit Lighting Tiers

Below listed are “Savings Are Essential” (SAE) rates, which are increased incentives due to Covid-19 impacts on the economy. **Installation deadline is 6/30/2021**. Projects not meeting that deadline will receive base incentive rates.

	Tier	Changes	Requirements	Incentive Greater of	Incentive Not to Exceed
Best	High Performance	None	Networked Lighting Controls	\$0.75/kWh or \$1,000/summer kW	75% of installed cost
Better	Enhanced Performance	Digital control needed; small groups advised	LED with Controls	\$0.55/kWh or \$1,000/summer kW	60% of installed cost
Good	Standard	Eligible for Comprehensive	LED	\$0.40/kWh or \$1,000/summer kW	45% of installed cost

High Performance Lighting



Network Lighting Controls

DLC NLC Requirements	Additional Utility Program Requirements
<ul style="list-style-type: none">• Networking of Luminaires and Devices• Occupancy Sensing• Daylight Harvesting/Photocell Control• High-End Trim• Zoning• Luminaire and Device Addressability• Continuous Dimming• Cybersecurity	<ul style="list-style-type: none">• Energy Monitoring – 6 months data• Load Shedding (Demand Response)

DLC = DesignLights Consortium

High Performance Energy Monitoring Report

Energy Report Format

Building Summary

Site Name	Business Hours	Gross Floor Area	System kW
Example Site	8am-6pm	25,000	17.5 kW

Energy Data Table

Time Period	Area Name	Zone Name	Quantity of Luminaires in Zone	Max Power Without Controls	Hours On	kWh in Time period	High End Trim	Occupancy Sensor	Daylight Harvesting
			#	Watts	Hours	kWh	%	Y/N	Y/N

Enhanced Performance Lighting

Minimum of:

One Control Strategy
per Fixture

Two Control
Strategies across the
Whole Project

Possible
Control
Strategies:

Occupancy
Sensors

Daylight
Harvesting

High End
Trim

Enhanced Performance Lighting

Enhanced Performance Lighting (Tier 2)

- All controlled LEDs must have digital control and wireless accessibility to initialize, configure, and commission the system.
- All LED products used must be on DLC QPL*
- 80% of project load must be controlled LED fixtures

Clarification: Small group LED fixture control is advised

- Recommend up to 300W of controlled LED fixtures per group within the same physical space and/or group space up to 1,000 sq. ft. floor area
- Individual control using LLLC** or other means is OPTIONAL

*DesignLights Consortium (DLC) Qualified Products List (QPL)

**Luminaire Level Lighting Controls (LLLC)

Enhanced Performance Lighting

Wireless Accessibility: to Initialize, Configure, Commission

- Variety of digital & wireless control systems/layouts can qualify; use “remotes” or “apps” etc.
- Access to: set daylight threshold/sensitivity; standby dim level; hold/delay time; etc.
- Can be “individual fixture level” access; using LEDs with LLLC or other means
- Can be “room/group level” access; e.g. use some form of “room controller” for wireless
- May have option now/later to scale to multi-room network with router/gateway/bridge

Standard Lighting



No Controls Requirement



Use Midstream or Express Rebate Form Where Applicable

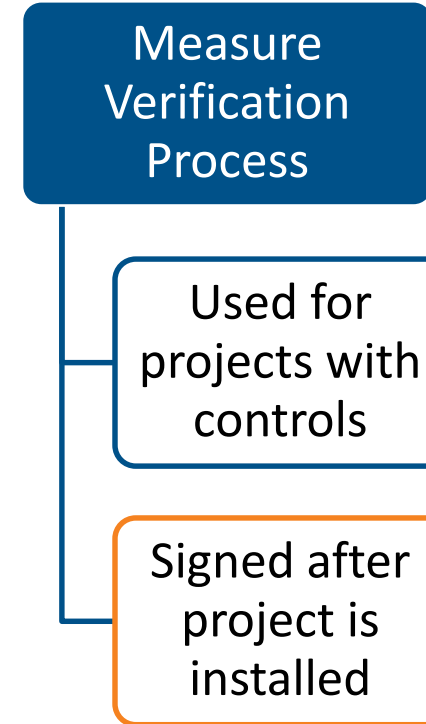
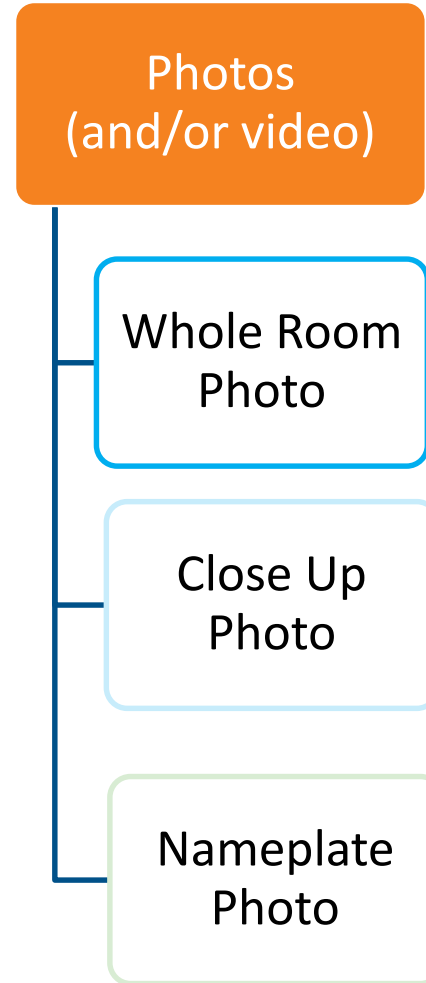
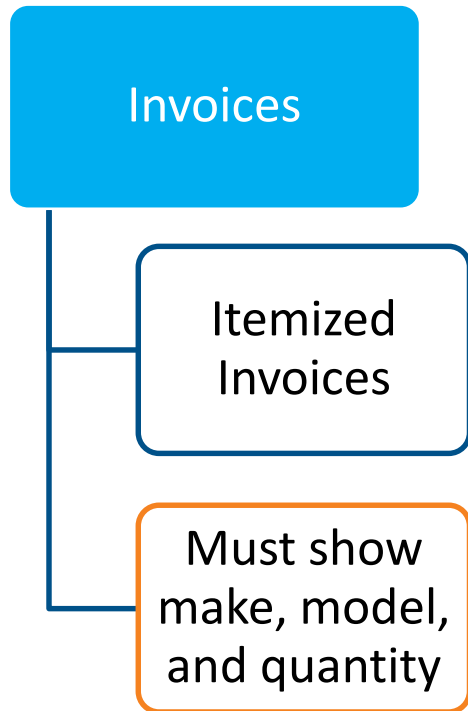
Eversource CT

- TLED Type A & B:
 - Not allowed in large C&I
 - Allowed in Midstream or Express Rebate

UI

- TLED Type A,B, & C - OK

Documentation Best Practices



Lighting Rebate Programs

What is Channel?



Midstream Details



Midstream Rebates:

- Instant discount at the counter/point-of-sale
- Products must be installed within 60 days of purchase, and purchases must meet the Minimum Customer Contribution (MCC) amount to qualify.
- Changes to the incentive amounts may occur mid-year.
- For more information, contact Energy Solutions at 510-852-8491 or EnergizeCT@energy-solution.com

Downstream Details



Downstream (Express) Rebates:

- Rebate turnaround time about 45 days from completed application.
- Failure to obtain pre-approval will result in the applicant not qualifying or receiving a lower rebate amount.
- Rebates may be capped depending on material cost.
- Changes to the incentive amounts may occur mid-year.
- For more information visit www.energizect.com/your-business/solutions-list/Express-Service-Lighting-Rebate

EVERSOURCE



CNG



SCG



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Thank you