

Conservation Projects Completed 2012

Project #	Facility Name	Project Type	Annual kWh Savings	Lifetime kWh Savings	Summer kW Demand Savings	Winter kW Demand Savings
WE10L223	City of Stamford Street Lighting Phase 1	LED Streetlights (534 fixtures)	468,959.00	6,096,467.00	0	0
WE11C062	Stamford - Central Fire House	Lighting Upgrade - Firehouse	71,246.00	926,200.00	8.39	5.48
WE11C062	Stamford - Central Fire House	BMS Firehouse	27,708.00	277,080.00	0	0
WE11C070	Stamford - Vehicle Maint Garage	BMS - Vehicle Maintenance Garage	20,376.00	203,760.00	0	0
WE12C102	City of Stamford Transfer Station	Lighting retrofit	51,776.00	673,089.00	8.81	6.7
WE12C102	City of Stamford Transfer Station	Heater Controls	28,050.00	280,502.00	0	22.7
WE12C102	City of Stamford Transfer Station	Comprehensive bonus	-	-	0	0
WE12L069	City of Stamford Street Lighting Phase 2	LED Streetlights	852,667.00	11,084,675.00	0	87.94
		Totals:	1,520,782.00	19,541,773.00	17.20	122.82

Conservation Projects Completed 2013

Project #	Facility Name	Project Type	Annual kWh Savings	Lifetime kWh Savings	Summer kW Demand Savings	Winter kW Demand Savings
WE13L174	City of Stamford (w/ WE13G050)	EO Lighting (Scofield Magnet School)	347,665.00	4,519,650.00	69.48	36.41
WE12L266	Stamford Government Center	Lighting	1,993.00	9,963.00	0.47	0.3
WE13L196	Toquam School	Lighting	2,685.00	34,980.00	0.71	0.44
WE12L210	City of Stamford Westhill High School	Lighting	35,967.00	179,837.00	12.87	6.25
WE12L211	City of Stamford Stamford High School	Lighting	22,854.00	114,271.00	7.14	3.47
		Totals:	411,164.00	4,858,701.00	90.67	46.87

Project Caps and Incentive Levels for CL&P

Effective 1/1/2014

Equipment Replacement & New Construction



Connecticut Light & Power

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Cumulative Cap per Federal Tax ID	\$2,000,000.00
Municipal Finance Cap (project /cumulative total per municipality)	N/A
Gas Projects requiring PURA Approval	≥ \$100,000.00
Prescriptive Lighting Measures - Based on Lighting Power Density (Watts/sqft of design)	
Tier 1: (>10% and <30% better then Code) & Tier 2: (≥ 30% better then Code)	\$0.15 / sf & \$0.50 / sf
Fixture Cap	\$50.00 / Fixture
Occupancy Sensors (beyond Code requirements for Lighting Controls)	\$20.00 / fixture controlled
HVAC	
Unitary / splits / ductless units (units ≤ 30 tons) Refer to web site for rebate	\$50.00 to \$120.00 / ton
Unitary / splits / ductless units (> 30 tons)	Custom - contact CL&P for explanation
Chillers & VFDs	Custom - contact CL&P for explanation
Air Compressors (lesser of)	
Incremental Cost Measure Cap (greater of)	75%
Prescriptive	\$0.25 / kWh OR \$700.00 / summer peak kW
< 5 hp	\$0
≥ 5 hp < 40 hp	\$310.00 / hp
≥ 40hp < 50 hp	\$240.00 / hp
≥ 50hp ≤ 100 hp	\$205.00 / hp
> 100 hp	See Custom Equipment caps
Custom Equipment: New or Replacement (the lesser of)	
Incremental Cost Measure Cap (greater of)	75%
	\$0.35 / kWh OR \$700 / summer peak kW
Custom - New Construction (non-Whole Building Performance)	
Incremental Cost Measure Cap (greater of)	95%
	\$0.35 / kWh OR \$700.00 / summer peak kW
Whole Building Performance	
Model Subsidy	
Initial Base or "Code" building model (paid when approved)	\$3,000.00
Final As-Built Whole Building Performance model (paid after construction and report approval)	\$3,000.00
Building / System Compliance (Installation) - Projects NOT Qualifying for State of CT High Performance Buildings Program	
Whole Building Performance Incentive (% better than code)	10% - 15% = \$0.50 / sf
Note: Incentive prorated for fuels based on modeled savings	>15% - 20% = \$1.00 / sf
Only projects 30,000 square feet or larger are eligible for Whole Building Performance	>20% - 25% = \$1.75 / sf
	>25% - 30% = \$2.50 / sf
	> 30% = \$3.00 / sf
Building / System Compliance (Installation) - Projects Qualifying for State of CT High Performance Buildings Program	
High Performance Building Incentive (% better than code)	<30% = \$0
Note: Incentive prorated for fuels based on modeled savings	>30% - 35% = \$1.00 / sf
	> 35% - 40% = \$1.50 / sf
	> 40% = \$2.00 / sf
Certification Bonus (when associated with an approved Whole Building Performance project)	
LEED Silver or 2 Green Globes (see footnote 4)	\$5,000.00
LEED Gold or 3 Green Globes	\$10,000.00
LEED Platinum or 4 Green Globes	\$15,000.00
Other Prescriptive Caps to be evaluated against the energy caps above (the lesser of):	
Cool Roofs	\$0.20 / sf
EMS	\$500.00 / point
High Performance Glazing	\$2.00 / sf

NOTES:

1. All references to kWh and ccf savings shall refer to annual savings.

2. Electric Distribution Company shall have final determination of eligible incentives and energy savings. A Letter of Agreement (LOA), detailing available incentives and energy savings for each proposed measure must be signed by Northeast Utilities Management and counter-signed by the Participant before any equipment is ordered to be eligible for incentives.

3. Summer Peak kW reduction shall be coincident with: Mon - Fri, non-Holiday from 1pm -5 pm, June-July-August.

4. Projects qualifying for State of CT High Performance Buildings Program are not eligible for LEED Silver Certification Bonus.

2014 Project Caps and Incentive Levels
Effective 1/1/2014

GAS MEASURES



Measures	Existing Building Retrofit	Business & Energy Sustainability (RCx / O&M)	Equipment Replacement & New Construction
Cumulative Cap per Federal Tax ID	N/A	N/A	N/A
Program Caps per metered site	N/A	N/A	N/A
Municipal Finance Cap (project /cumulative total per municipality)	N/A	N/A	N/A
Gas Projects requiring PURA approval	≥ \$100,000.00	≥ \$100,000.00	≥ \$100,000.00
Retrofit (EO)			
Gas Measures - Space Heating (lesser of)			
% of installed Cost	40%	40%	N/A
Measure Cap	\$3.50 / CCF	\$3.50 / CCF	N/A
Prescriptive Values - if applicable	\$\$ / unit (see below)	\$\$ / unit (see below)	N/A
Gas Measures - Non-Space Heating (lesser of)			
% of installed Cost	40%	40%	N/A
Measure Cap	\$3.50 / CCF	\$3.50 / CCF	N/A
Prescriptive Values - if applicable	\$\$ / unit (see below)	\$\$ / unit (see below)	N/A
Comprehensive Project Initiative			
Project must contain at least 2 end uses, can be gas or electric (Heating, Cooling, Lighting, Process, Refrigeration, EMS, etc.)			
	Comprehensive Bonus	Up To 50% of Installed Cost	Up To 50% of Installed Cost
No one End Use can exceed	85% of the project's value based on annual \$ savings	85% of the project's value based on annual \$ savings	N/A
Comprehensive 'Project' Cap for all measures	\$6.00/CCF (ECB Measures) \$3.50 / CCF (EO Measures) PLUS (greater of) \$0.40 / kWh OR \$1,000 / summer peak kW	\$6.00/CCF (ECB Measures) \$3.50 / CCF (EO Measures) PLUS (greater of) \$0.40 / kWh OR \$1,000 / summer peak kW	N/A
Lost Opportunity (ECB)			
Custom - Process Equipment: New or Replacement (the lesser of) See Note 3			
Incremental Cost	N/A	N/A	75%
Measure Cap	N/A	N/A	\$6.00 / CCF
Buydown	N/A	N/A	1.5 yr. payback
Custom - Non-Process Equipment: New or Replacement (the lesser of)			
Incremental Cost	N/A	N/A	75%
Measure Cap	N/A	N/A	\$6.00 / CCF
Gas - New Construction (non-whole Building Performance)			
Incremental Cost	N/A	N/A	95%
Measure Cap - space heating	N/A	N/A	\$6.00 / CCF
Measure Cap - non-space heating	N/A	N/A	\$5.00 / CCF
Gas Food Service Fixed Rebates			
Gas ENERGY STAR® Fryers	\$750.00 / unit	N/A	\$750.00 / unit
Gas ENERGY STAR® Steamers	\$750.00 / unit	N/A	\$750.00 / unit
Gas ENERGY STAR® Convection Ovens	\$500.00 / unit	N/A	\$500.00 / unit
Gas ENERGY STAR® Griddles	\$450.00 / unit	N/A	\$450.00 / unit
Other Prescriptive Caps to be evaluated against the energy & demand caps above (the lesser of)			
Pool Covers (automated)	\$12.00 / sf	N/A	N/A
Window Film	\$2.00 / sf	N/A	N/A
EMS systems	\$500.00 / pt	N/A	\$500.00 / pt
High Performance Glazing	N/A	N/A	\$2.00 / sf
Gas Boilers (non-condensing)	N/A	N/A	\$4.00 / input MBH
Gas Boilers (condensing)	N/A	N/A	\$8.00 / input MBH
Gas Storage Water Heaters (Thermal Eff. ≥ 90%)	N/A	N/A	Varies by Input BTU
Gas IR Heater fixed Rebates (low & high intensity)	N/A	N/A	Varies by Input BTU
Up to 50,000 BTU/hr	N/A	N/A	\$500.00 / unit
≥ 50,000 BTU/hr up to 150,000 BTU/hr	N/A	N/A	\$650.00 / unit
≥ 150,000 BTU/hr up to 175,000 BTU/hr	N/A	N/A	\$650.00 / unit
≥ 175,000 BTU/hr	N/A	N/A	\$850.00 / unit

NOTES:

- All references to CCF savings shall refer to annual savings.
- Gas Distribution Company shall have final determination of eligible incentives and energy savings. A Letter of Agreement (LOA), detailing available incentives and energy savings for each proposed measure must be signed by Northeast Utilities Management and counter-signed by the Participant before any equipment is ordered to be eligible for incentives.
- Process definition: Any measure that saves energy related to producing a product. Typical examples include, but are not limited to, heat treating, process heating & drying, cleaning & sterilizing, commercial r

Energy-Efficiency Services

Energy Conscious Blueprint / Energy Opportunities Equipment Replacement

Connecticut Light & Power (CL&P)

Prescriptive Incentives for HVAC, Chillers, Motors and Variable Frequency Drives

In order to be eligible for the listed incentives, all projects must have a signed Letter of Agreement (LOA) prior to the installation of energy-efficiency measures. If the project involves only qualifying HVAC, then the appropriate Express Rebate forms should be used. For other energy-efficiency measures, please contact your CL&P representative.

HVAC

MINIMUM EFFICIENCY LEVELS AND INCENTIVES

Unitary or Split-System HVAC Equipment (including ductless split-systems)		Tier 1		Tier 2	
		Minimum Qualifying SEER/EER	Rebate \$/Ton	Minimum Qualifying SEER/EER	Rebate \$/Ton
Size					
Tons	BTUs				
< 5.4	< 65,000	14.0 SEER	\$50	15.0 SEER	\$85
≥ 5.4 to < 11.25	≥ 65 to < 135M	11.5 EER	\$50	12.0 EER	\$85
≥ 11.25 to < 20	≥ 135 to < 240M	11.5 EER	\$50	12.0 EER	\$85
≥ 20 to ≤ 30	≥ 240M to ≤ 375M	10.8 EER	\$75	11.5 EER	\$120
> 30 to < 63.33	> 375M to < 760M	10.5 EER	\$70	10.8 EER	\$120
≥ 63.33	≥ 760M	9.7 EER	\$70	10.2 EER	\$120

HVAC CONTROLS

- Dual enthalpy economizer controls are eligible for \$250 per unit rebate.
- Rebates for economizer controls available only when installed with new HVAC units.
- Rebates for controls applicable for Unitary Systems only and must have electric air conditioning.
- Ductless mini split systems must have Inverter Technology.

ELIGIBILITY REQUIREMENTS

Air Source Heat Pump Equipment (including ductless split-systems)			Tier 1		Tier 2	
Size		Type	Minimum Qualifying SEER/ EER/ HSPF	Rebate \$/Ton	Minimum Qualifying SEER/EER/ HSPF	Rebate \$/Ton
Tons	BTUs					
< 5.4	< 65,000	Split System	14.0 SEER & 8.5 HSPF	\$80	15.0 SEER & 9.0 HSPF	\$150
		Single Pkg	14.0 SEER & 8.5 HSPF	\$80	15.0 SEER & 8.5 HSPF	\$150
≥ 5.4 to < 20.0	≥ 65 to < 240 M	All	11.5 EER	\$80	12.0 EER	\$150
≥ 20 to ≤ 30	≥ 240 to ≤ 375 M	All	10.5 EER	\$70	10.8 EER	\$120

ELIGIBILITY REQUIREMENTS

Water Source Heat Pump Equipment		Minimum Qualifying EER	Rebate \$/Ton
Tons	BTUs		
< 11.25	< 135,000	14.0	\$150

ELIGIBILITY REQUIREMENTS

Ground Water – Water Source Heat Pump Equipment (Open Loop)		Minimum Qualifying EER and COP	Rebate \$/Ton
Tons	BTUs		
< 11.25	< 135,000	18.0 EER and 4.0 COP	\$150

ELIGIBILITY REQUIREMENTS

Ground Loop – Water Source Heat Pump Equipment (Closed Loop)		Minimum Qualifying EER and COP	Rebate \$/Ton
Tons	BTUs		
< 11.25	< 135,000	15.0 EER and 3.1 COP	\$150

Chillers – For HVAC Applications

Condenser Type	Capacity (Tons)	Minimum Qualifying IPLV*	Incentive (\$/Tons)
Air Cooled	ALL		Contact your CL&P representative
Water Cooled	ALL		Contact your CL&P representative
Evaporative	ALL		Contact your CL&P representative
All	> 100		Contact your CL&P representative

Variable Frequency Drives for HVAC Applications

Air Handling Fans	
Motor Size (HP)	Incentive *
< 5	\$0
5	\$920
7.5	\$1,310
10	\$1,320
15	\$1,370
20	\$1,760
25	\$2,270
30	\$2,420
40	\$2,480
50	\$3,290
60	\$5,130
75	\$6,190
100	\$7,670

HVAC Pumps	
Motor Size (HP)	Incentive *
< 5	\$0
5	\$1,710
7.5	\$2,100
10	\$2,150
15	\$2,300
20	\$2,730
25	\$3,290
30	\$3,670
40	\$3,770
50	\$4,580
60	\$6,680
75	\$7,730
100	\$9,290

Cooling Tower Fans	
Motor Size (HP)	Incentive *
< 5	\$0
5	\$920
7.5	\$1,310
10	\$1,320
15	\$1,370
20	\$1,760
25	\$2,270
30	\$2,420
40	\$2,480
50	\$3,290
60	\$5,130
75	\$6,190
100	\$7,670

*For new construction or major renovation projects, air handling fans ≥ 15 HP, hot or chilled water pumps > 50 HP, and cooling tower fans ≥ 7.5 HP should have Variable Frequency Drives per ASHRAE 90.1-2007 and therefore are not eligible for incentives.

Incentives listed above represent maximum incentives - actual incentives need to be qualified with energy savings.



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Project Caps and Incentive Levels for CL&P
Effective 1/1/2014



Connecticut
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Existing Buildings

Retrofit Measures	Existing Building Retrofit	Business & Energy Sustainability (RCx / O&M)
Cumulative Cap per Federal Tax ID	\$2,000,000.00	\$2,000,000.00
Municipal Finance Cap (project / cumulative total per municipality)	\$100,000.00 / \$500,000.00	N/A
Lighting Measures		
Standard Interior & Exterior Lighting Measures (the lesser of)		
% of installed cost	35%	N/A
Measure Cap (greater of)	\$0.30 / kWh OR \$800.00 / summer peak kW	N/A
High Performance Lighting - LED, Daylighting or Induction Lighting Measures; Advanced Lighting Controls (the lesser of)		
% of installed cost	40%	N/A
Measure Cap (greater of)	\$0.30 / kWh OR \$800.00 / summer peak kW	N/A
Express Lighting Rebate (includes LEDs)	Refer to Website	N/A
Non-Lighting Measures		
Custom Measures (the lesser of)		
% of installed cost	40%	40%
Measure Cap (greater of)	\$0.30 / kWh OR \$800.00 / summer peak kW	\$0.30 / kWh OR \$800.00 / summer peak kW
Prescriptive Values - if applicable	\$ / unit	\$ / unit
EMS System (the lesser of)		
% of installed cost	40%	40%
Measure Cap (greater of)	\$0.30 / kWh OR \$800.00 / summer peak kW	\$0.30 / kWh OR \$800.00 / summer peak kW
Cap per point	\$500.00 / pt	\$500.00 / pt
EMS incentives will be prorated based on energy savings by fuel		
Comprehensive Project Initiative		
Project must contain at least 2 end uses, can be gas or electric (Heating, Cooling, Lighting, Process, Refrigeration, EMS, etc.)		
Comprehensive Bonus	Up To 50% of Installed Cost	Up To 50% of Installed Cost
No one End Use can exceed	85% of the project's value based on annual \$ savings	85% of the project's value based on annual \$ savings
Comprehensive 'Project' Cap for all measures	(greater of) \$0.40 / kWh OR \$1,000.00 / summer peak kW PLUS \$6.00 / CCF (ECB Measures) \$3.50 / CCF (EO Measures)	(greater of) \$0.40 / kWh OR \$1,000.00 / summer peak kW PLUS \$6.00 / CCF (ECB Measures) \$3.50 / CCF (EO Measures)
Other Prescriptive Caps to be evaluated against the energy & demand caps above (the lesser of)		
Pool Covers - automated	\$12.00 / sf	N/A
Window Film	\$2.00 / sf	\$2.00 / sf
PC Network Controls	\$20.00 / PC controlled	\$20.00 / PC controlled
PRIME (Events per customer over 2 years)		
Events 1 & 2	N/A	100%
Events 3 & 4	N/A	50%
Retro Commissioning will use the same Measure Caps as EO and O&M		
Scoping Study	N/A	\$1,000.00
Investigative Study	N/A	50%
Custom Non-Lighting Measures (the lesser of)		
% of installed cost	N/A	40%
Measure Cap (greater of)	N/A	\$0.30 / kWh OR \$800.00 / summer peak kW

NOTES:

- All references to kWh or CCF savings shall refer to annual savings.
- Electric Distribution Company shall have final determination of eligible incentives and energy savings. A Letter of Agreement (LOA), detailing available incentives and energy savings for each proposed measure must be signed by Northeast Utilities Management and counter-signed by the Participant before any equipment is ordered to be eligible for incentives.
- Summer Peak kW reduction shall be coincident with: Mon - Fri, non-Holiday from 1pm - 5 pm, June-July-August

2014 Project Caps and Incentive Levels
Effective 1/1/2014

GAS MEASURES



Measures	Existing Building Retrofit	Business & Energy Sustainability (RCx / O&M)	Equipment Replacement & New Construction
Cumulative Cap per Federal Tax ID	N/A	N/A	N/A
Program Caps per metered site	N/A	N/A	N/A
Municipal Finance Cap (project /cumulative total per municipality)	N/A	N/A	N/A
Gas Projects requiring PURA approval	≥ \$100,000.00	≥ \$100,000.00	≥ \$100,000.00
Retrofit (EO)			
Gas Measures - Space Heating (lesser of)			
% of installed Cost	40%	40%	N/A
Measure Cap	\$3.50 / CCF	\$3.50 / CCF	N/A
Prescriptive Values - if applicable	\$\$ / unit (see below)	\$\$ / unit (see below)	N/A
Gas Measures - Non-Space Heating (lesser of)			
% of installed Cost	40%	40%	N/A
Measure Cap	\$3.50 / CCF	\$3.50 / CCF	N/A
Prescriptive Values - if applicable	\$\$ / unit (see below)	\$\$ / unit (see below)	N/A
Comprehensive Project Initiative			
Project must contain at least 2 end uses, can be gas or electric (Heating, Cooling, Lighting, Process, Refrigeration, EMS, etc.)			
Comprehensive Bonus	Up To 50% of Installed Cost	Up To 50% of Installed Cost	N/A
	No one End Use can exceed 85% of the project's value based on annual \$ savings	85% of the project's value based on annual \$ savings	
Comprehensive 'Project' Cap for all measures	\$6.00/CCF (ECB Measures) \$3.50 / CCF (EO Measures)	\$6.00/CCF (ECB Measures) \$3.50 / CCF (EO Measures)	N/A
	PLUS (greater of) \$0.40 / kWh OR	PLUS (greater of) \$0.40 / kWh OR	N/A
	\$1,000 / summer peak kW	\$1,000 / summer peak kW	N/A
Lost Opportunity (ECB)			
Custom - Process Equipment: New or Replacement (the lesser of) See Note 3			
Incremental Cost	N/A	N/A	75%
Measure Cap	N/A	N/A	\$6.00 / CCF
Buydown	N/A	N/A	1.5 yr. payback
Custom - Non-Process Equipment: New or Replacement (the lesser of)			
Incremental Cost	N/A	N/A	75%
Measure Cap	N/A	N/A	\$6.00 / CCF
Gas - New Construction (non-whole Building Performance)			
Incremental Cost	N/A	N/A	95%
Measure Cap - space heating	N/A	N/A	\$6.00 / CCF
Measure Cap - non-space heating	N/A	N/A	\$5.00 / CCF
Gas Food Service Fixed Rebates			
Gas ENERGY STAR® Fryers	\$750.00 / unit	N/A	\$750.00 / unit
Gas ENERGY STAR® Steamers	\$750.00 / unit	N/A	\$750.00 / unit
Gas ENERGY STAR® Convection Ovens	\$500.00 / unit	N/A	\$500.00 / unit
Gas ENERGY STAR® Griddles	\$450.00 / unit	N/A	\$450.00 / unit
Other Prescriptive Caps to be evaluated against the energy & demand caps above (the lesser of)			
Pool Covers (automated)	\$12.00 / sf	N/A	N/A
Window Film	\$2.00 / sf	N/A	N/A
EMS systems	\$500.00 / pt	N/A	\$500.00 / pt
High Performance Glazing	N/A	N/A	\$2.00 / sf
Gas Boilers (non-condensing)	N/A	N/A	\$4.00 / input MBH
Gas Boilers (condensing)	N/A	N/A	\$8.00 / input MBH
Gas Storage Water Heaters (Thermal Eff. ≥ 90%)	N/A	N/A	Varies by Input BTU
Gas IR Heater fixed Rebates (low & high intensity)	N/A	N/A	Varies by Input BTU
Up to 50,000 BTU /hr	N/A	N/A	\$500.00 / unit
≥ 50,000 BTU/hr up to 150,000 BTU/hr	N/A	N/A	\$550.00 / unit
≥ 150,000 BTU/hr up to 175,000 BTU/hr	N/A	N/A	\$650.00 / unit
≥ 175,000 BTU/hr	N/A	N/A	\$850.00 / unit

NOTES:

- All references to CCF savings shall refer to annual savings.
- Gas Distribution Company shall have final determination of eligible incentives and energy savings. A Letter of Agreement (LOA), detailing available incentives and energy savings for each proposed measure must be signed by Northeast Utilities Management and counter-signed by the Participant before any equipment is ordered to be eligible for incentives.
- Process definition: Any measure that saves energy related to producing a product. Typical examples include, but are not limited to, heat treating, process heating & drying, cleaning & sterilizing, commercial



**Connecticut
Light & Power**
The Northeast Utilities System



Comprehensive Project: Q&A

Energy Opportunities (EO) and Small Business Energy Advantage (SBEA) programs' Comprehensive Initiative is designed to increase the depth and breadth of energy efficiency projects being contemplated and implemented by customers. The Initiative includes:

- Financial incentives based upon the lesser of:
 - 50% of Project Installed Cost
 - avoided energy cost (1 year) – up to \$0.50 per annual kWh or \$1,500.00 per summer peak kW for electric measures, and \$6.00 per annual CCF (gas equipment replacements) or \$3.50 per annual CCF (gas equipment/measure retrofits)
- “Comprehensive” is defined as projects having at least 2 end-uses, gas and/or electric, with no one measure having more than 85% of the project's annual \$ savings
- At least 50% of the project's value must be from retrofit measure(s)

Note: All projects are subject to a \$1 million per year per Federal Tax ID incentive caps.

The following are answers to some common questions.

Question #1:

What types of projects are eligible for the Comprehensive Initiative?

Answer

Retrofit projects that save energy in an existing commercial or industrial facility are eligible to participate in the Comprehensive Initiative. To qualify, a project must have at least two measures that save electric or gas energy in at least two different end uses.

Question #2:

What is an “end use”?

Answer

End uses are categories or classifications used to report energy savings. For the purposes of the Energy Efficiency Fund programs, end use categories are lighting, comfort cooling, comfort heating, process, refrigeration, water heating, EMS and other. The end use category of “other” is typically used to classify measures that affect more than one end use, like heating and cooling. A common example of “other” is motors in an air handler with hot water and chilled water coils. EMS is also a measure that typically has energy savings in more than one end use. As such, for Comprehensive Initiative projects, EMS will be classified as its own separate end use.

Question #3:

What types of projects or measures are **NOT** eligible for the Comprehensive Initiative?

Answer

- new construction
- major renovation (replacement of building systems)
- replacement of non-functioning equipment, components or devices (even if the system can function without it.)
- equipment replacements or upgrades that are being made to increase output/throughput or to meet new emissions or discharge requirements
- new roof
- change in occupancy use classification

Question #4:

Are there any minimum efficiency requirements for equipment, components or systems?

Answer

- Package air conditioning equipment must meet the minimum efficiencies identified on the Connecticut Cool Choice rebate application form as posted on the CL&P and UI websites. Call the Energy Efficiency Fund utility program administrator for efficiency requirements on larger units.
- All other equipment, components or systems must meet the minimum requirements of ASHRAE/IESNA Standard 90.1-2007 with all published addenda.

Question #5:

How are the installed costs allocated for measures that have electric savings only and measures that have both electric and fossil fuel savings?

Answer

The installed cost for measures with electric savings only will be the installed cost for the measure.

The installed cost for measures with both electric and fossil fuel savings will be based on an allocation of the percentage of the annual electric savings and the annual fossil fuel savings, in dollars. The allocated percentage of the installed cost for a measure that saves both electric and fossil fuel energy is calculated by multiplying the total installed cost of the measure by the billed value of the electric energy savings and dividing by the total billed value of the fossil fuel and electric savings.

Example: A new energy management system (EMS) with an installed cost of \$66,000 is proposed as one measure of a comprehensive project for an electric customer on CL&P's Rate 55. The EMS is estimated to generate annual savings of 1,500 CCF of gas and 50,000 kWh of energy. There is no demand reduction associated with the EMS. The installed cost for the electric portion of the EMS will be calculated in the following manner:

<u>Energy Savings</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total Billed Savings</u>
Gas (CCF)	1,500	\$1.25	\$1,875.00

Electric			
Energy (kWh)	50,000	\$0.13217	\$6,608.50
Peak Demand (kW)	0		0
Total Electric Savings			\$6,608.50

Billed value of energy savings = \$8,483.50 (1,875.00 + 6,608.50)

Electric percentage = 78% (6,608.50 / 8,483.50)

Gas percentage = 22% (1,875.00 / 8,483.50)

Allocated installed cost, electric = \$51,480.00 (78% of \$66,000.00)

Allocated installed cost, gas = \$14,520.00 (22% of \$66,000.00)

Question #6:

Can a gas measure be combined with an electric measure to qualify for a Comprehensive Initiative project?

Answer

Yes, the Comprehensive Initiative is designed around both electric and gas energy savings. To qualify, a project must have a minimum of two measures that save energy in a minimum of two end uses. No single end use can be more than 85% of the total project value based on annual \$ savings.

Question #7:

Can the cost and savings of replacing natural gas boilers be included in a comprehensive project?

Answer

Yes, all costs and savings for this type of measure could be included in the Comprehensive Initiative evaluation, as long as the boiler is on a firm gas account and it represents <50% of the project's value.

Question #8:

When are other fuels used to qualify a Comprehensive Initiative project?

Answer

The installed cost and energy savings of a fossil fuel measure are used to determine the allocated costs of a combined electric/fossil fuel measure. At this time, the only fossil fuel that is eligible is natural gas. See Question #5 for an example of an energy management system (EMS) measure that has both electric and fossil fuel savings and how to split the cost relative to the estimated billed energy savings.

Question #9:

Does a retrofit project in a grocery store have two end uses if it proposes to retrofit the motors in the refrigerated cases with ECM motors and to retrofit the air handlers with VFDs?

Answer

Yes. The motors in the refrigerated cases are considered "refrigeration" and the air handlers are considered "comfort cooling," "comfort heating," or "other" (since it may provide both heating and cooling to the space.)

Question #10:

Are operation and maintenance measures included in the Comprehensive Initiative?

Answer

Operations measures and maintenance measures may be considered. Projects that are part of the Energy Efficiency Fund Retro Commissioning process are not included in the Comprehensive Initiative.

Question #11:

Can equipment replacement be part of the comprehensive project?

Answer

Like-for-like replacement of functioning equipment, whether electric or gas, is eligible as long as the resulting savings do not exceed 50% of the project's value. (See question #4 for the minimum efficiency requirements of electric equipment.)