



Empowering you to make  
smart energy choices

# New Construction Energy Efficiency Program (Energy Conscious Blueprint)

Jordan Schellens  
April 13, 2017

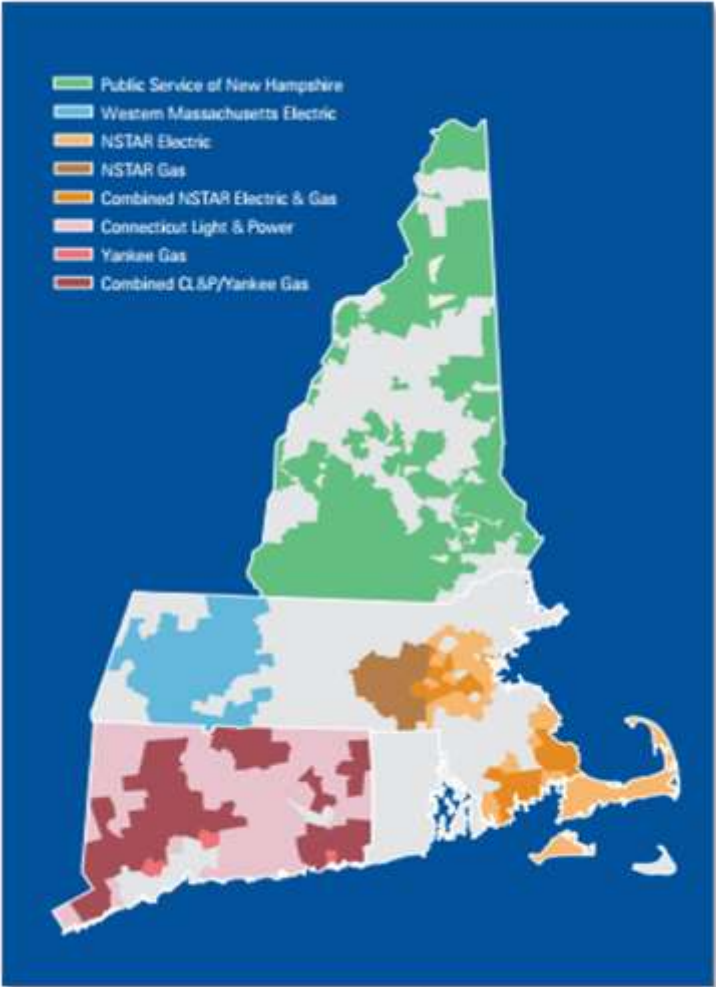
**EVERSOURCE**

# Agenda

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- Who we are
- Project eligibility
- New for 2017
- Program paths
- Special offerings
- How to apply

# Eversource is the largest energy provider in New England



## Company Mission

**We are one company focused on delivering reliable energy and superior customer service**

We seek to be the region's most respected energy provider.

We meet the highest expectations of customers, shareholders and regulators by:

- Meeting and exceeding our performance targets while driving efficiency and managing costs
- Providing reliable service and accurate information
- Demonstrating inclusive, respectful, honest and ethical behavior

Safety First and Always

**EVERSOURCE**

# #1 ENERGY PROVIDER IN NEW ENGLAND

EVERSOURCE

- 3 states
- 3.6m customers
- 8,000 employees
- \$500m+ annual EE investment

 **Ceres #1 Ranking**  
*Mobilizing Business Leadership  
for a Sustainable World*

**ACEEE**  
American Council for an Energy-Efficient Economy



# Connecticut Energy Efficiency Fund

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## Objectives

- To advance the efficient use of energy
- To reduce air pollution and negative environmental impacts
- To promote economic development and energy security
  - *\$2.80 in electric system benefits for every \$1 invested in energy efficiency*

# What is Energize Connecticut<sup>SM</sup>?

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- Energize Connecticut is the state's branding initiative to help consumers save money and use clean, affordable energy.
- A partnership of the Energy Efficiency Fund, the Connecticut Green Bank, and local electric and gas utilities



energize   
CONNECTICUT

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[EnergizeCT.com](http://EnergizeCT.com)

# An Energy Solution for Every Business

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## Existing Buildings

- ✓ Retrofit
- ✓ Equipment Rebates
- ✓ Retro-commissioning

## Industrial

- ✓ Measure
- ✓ Plan
- ✓ Process

## Small Business

- ✓ Turnkey
- ✓ Free energy audit
- ✓ On-bill financing

# New Construction Program (ECB)

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## Goal

- Promotes energy-efficient design and equipment in commercial and industrial buildings

## Qualifying Projects

- Located Eversource/UI territory
- New construction
- Major renovation
- Addition/Change of use/tenant fit out
- 10% better than IECC 2012/ASHRAE 90.1-2010



# New Construction Program (ECB)

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## Design Incentives

- Financial incentives to promote an energy efficiency design
- Bonuses incentives available

## Installation Incentives

- Financial incentives to help pay for the extra costs associated with premium efficiency equipment
- LEED, Green Globes, Net Zero & Commissioning bonuses

# What's New in 2017?

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# Meet The Team

CT Commercial & Industrial New Construction Territory Map



## CONSULTANT TERRITORY COLOR KEY INDEX

Name	Email	Phone
Jillian Corley	<a href="mailto:jillian.corley@eversource.com">jillian.corley@eversource.com</a>	860-665-3688
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Jim Beatrice	<a href="mailto:james.beatrice@eversourc.com">james.beatrice@eversourc.com</a>	860-665-2062
Glen Eigo	<a href="mailto:glen.eigo@uinet.com">glen.eigo@uinet.com</a>	203-499-3127

City of Norwich Department of Public Utilities



# Energy Efficiency Benefits

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Do it right the first time!

An additional tool for your “toolkit”

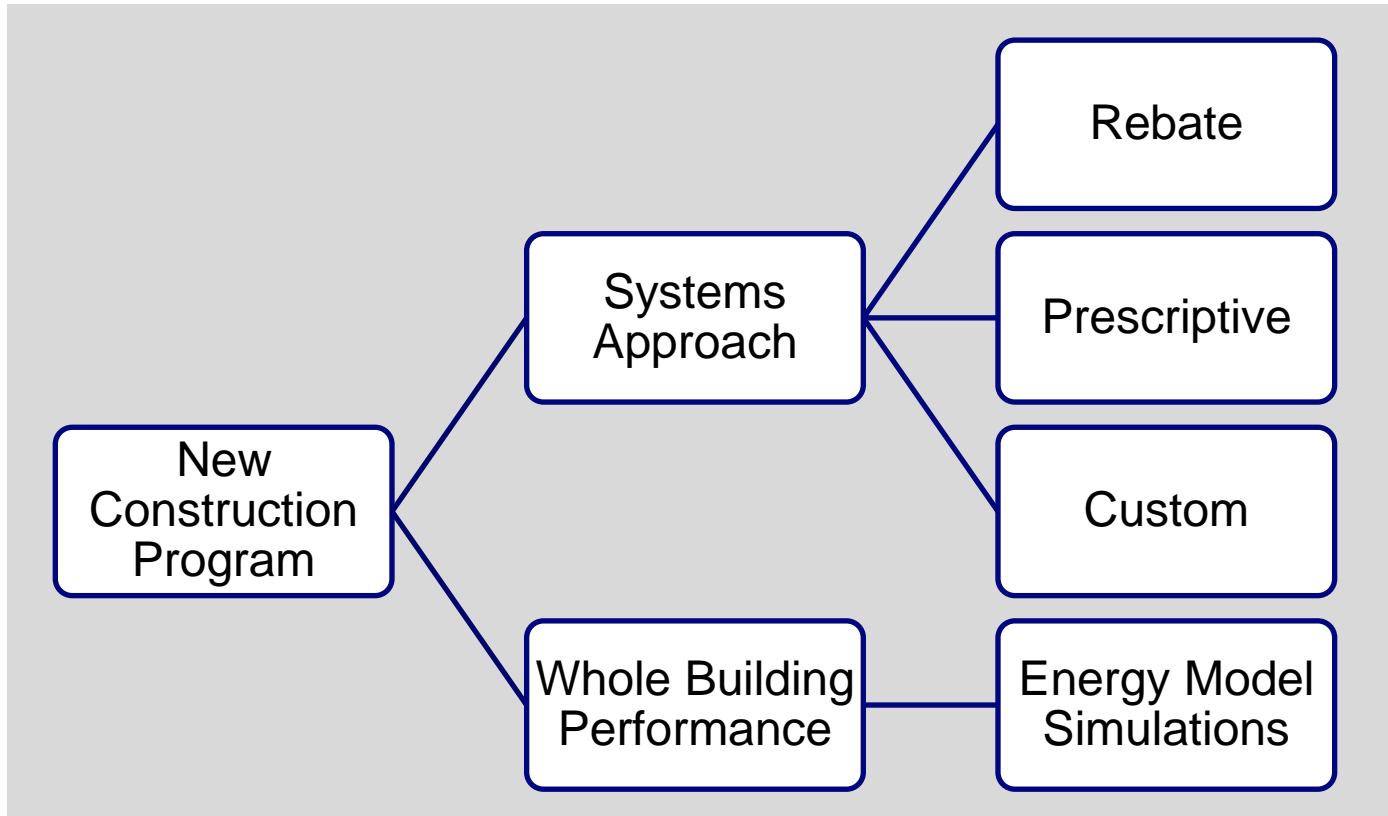
Save your business and customer money

Makes businesses more competitive

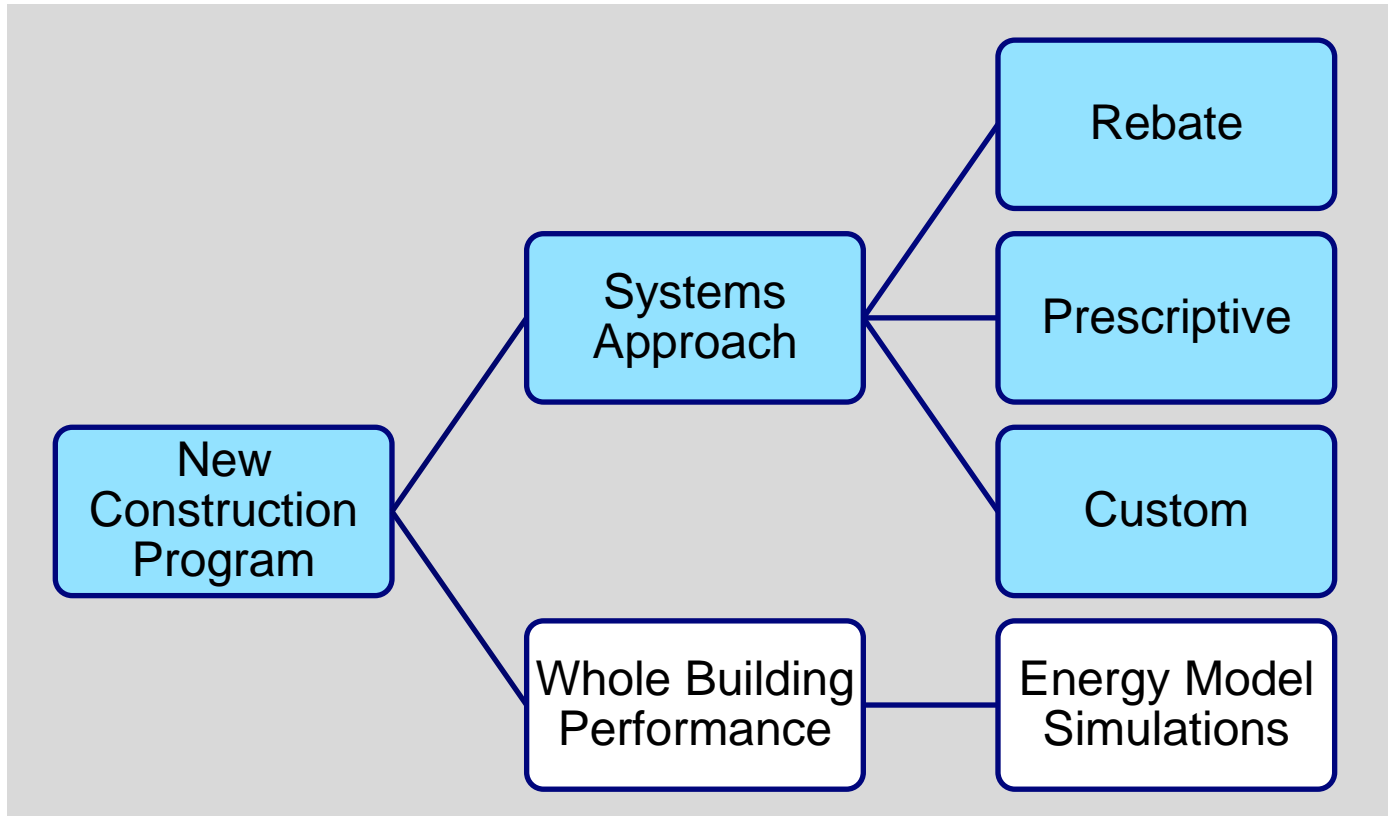
Lower cost option than renewable generation (PV)

Added comfort for employees, tenants

# Program Paths



# Program Paths

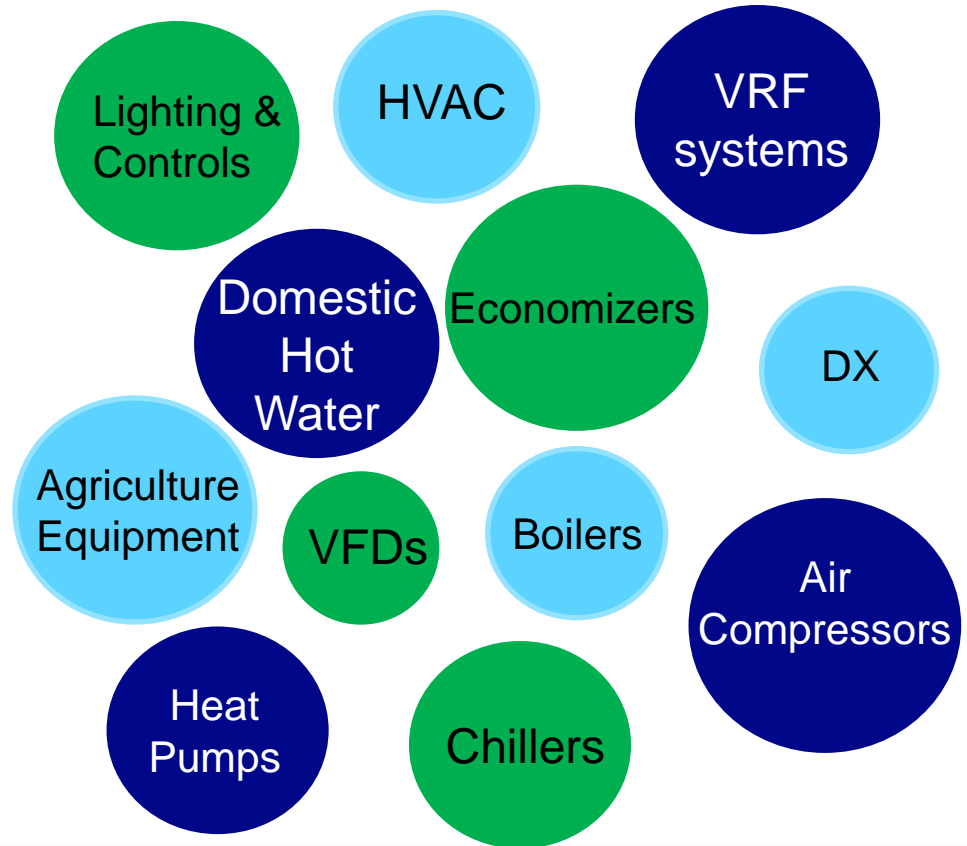


# Prescriptive/Custom Path

## Program Requirements

- Pre-set incentive levels & min. efficiency requirements
- Smaller/less complex buildings
- Preferably during schematic design

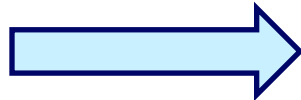
## Common Systems for Improvement



# Data Collection

What is it?

- Excel Spreadsheet provides an overview of our offerings



Eligibility Requirements					
Unitary or Split-System HVAC Equipment		Tier 1		Tier 2	
Size		Minimum Qualifying SEER/EER	Incentive \$/Ton	Minimum Qualifying SEER/EER	Incentive \$/Ton
Nominal Tons	MBTU/Hr				
< 5.4	< 65	14.0 SEER	\$50	15.0 SEER	\$85
≥ 5.4 to < 11.25	≥ 65 to < 135	11.5 EER	\$50	12.0 EER	\$85
≥ 11.25 to < 20	≥ 135 to < 240	11.5 EER	\$50	12.0 EER	\$85
≥ 20 to ≤ 30	≥ 240 to ≤ 375	10.8 EER	\$75	11.5 EER	\$120
> 30 to < 63	> 375 to < 760	10.5 EER	\$70	10.8 EER	\$120
≥ 63.33	≥ 760	9.7 EER	\$70	10.2 EER	\$120

-Dual enthalpy economizer controls are eligible for \$250 per unit incentive when units have code compliant efficiencies or better.

- Requests info. necessary to calculate energy savings & incentive

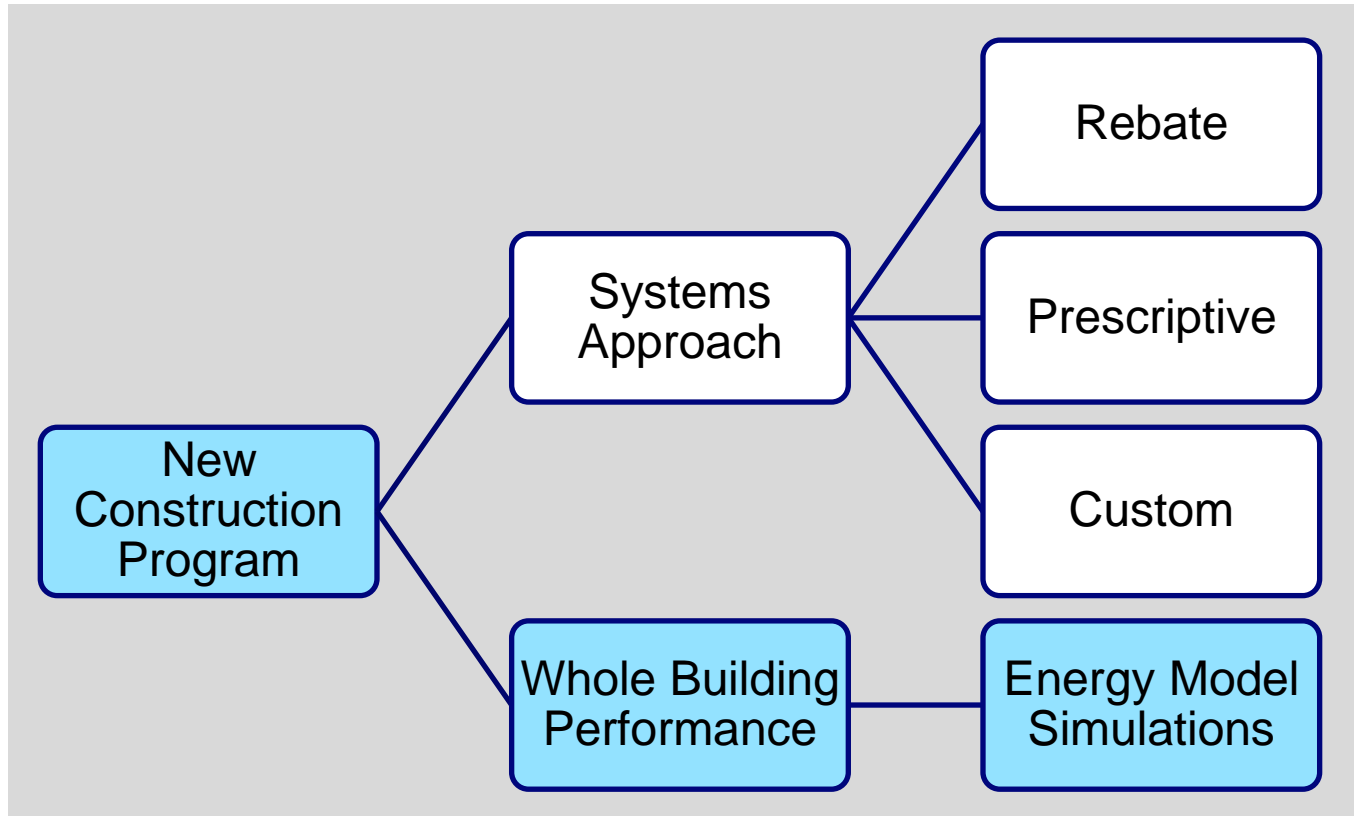


High Efficiency Unitary/Split DX HVAC Proposed								
Unit ID	Quantity	Manufacturer	Model number	Total Cooling Capacity (MBH)	SEER or EER Rating at AHRI conditions	Certified Reference Number	AHRI Rating Screenshot	Dual Enthalpy Economizer (Y/N)
EXAMPLE: RTU-1	1	XYZ COMPANY	MODEL XYZ123	67	12.2	1234567	See Attached	N





# Program Paths



# New WB Incentives for 2017!

New Code (ASHRAE 2010, IECC 2012)

- ★ Higher modeling incentives      \$6,000 (2016) → up to **\$20,000 (2017)!**
- ★ Path to Net Zero Incentive      **≥ 35%** better than code, add. **\$10,000**
- ★ LEED Commissioning      10% of EEM incentive, up to **\$15,000**
- ★ Higher Performance Incentives      **≥ 10%** Better than code = **\$0.50/SF**  
**> 30%**      “      = **\$3.00/SF**
- ★ **Participation Utilized As An Alternate Compliance Path**

# Whole Building Performance Path



## Suitable Buildings:

- Larger, more complex
- Minimum 30,000 SF
- Early in design process
- Undergoing standardized modeling & reporting

2017 Design Incentives	
Brainstorming Energy Charette	\$2,500
Energy Model Incentives	<b>\$15,000 – \$20,000</b>
≥ 15% Energy Savings	\$.20/sf*
<b>Path to Net Zero ≥35%</b>	<b>\$10,000</b>

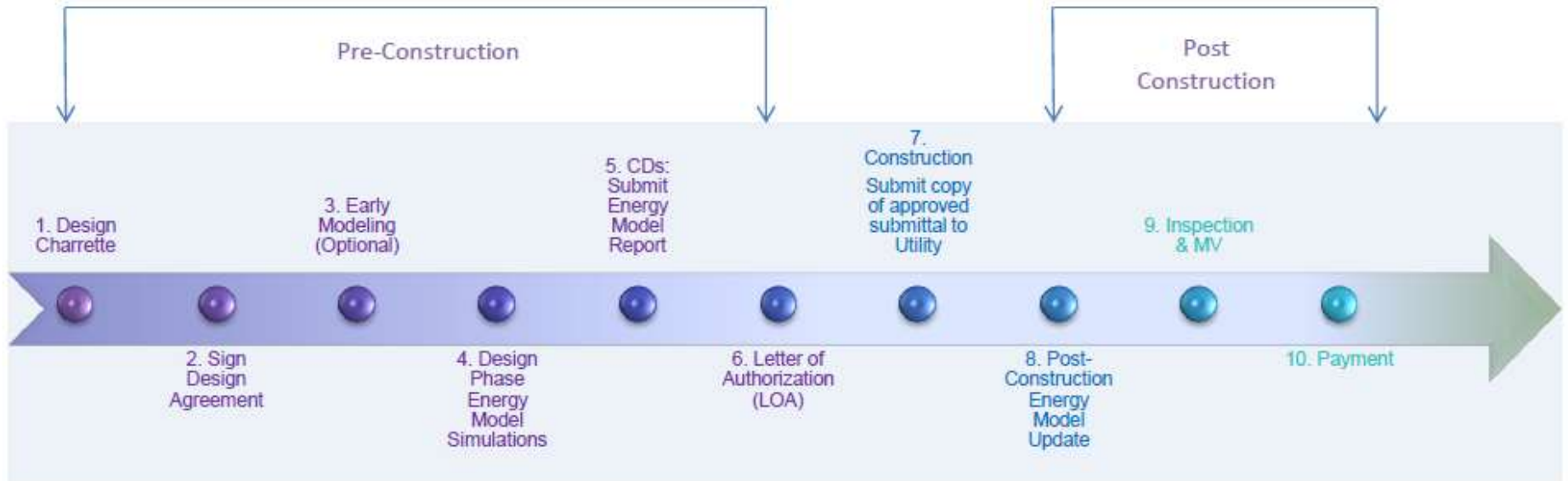
2017 Installation Incentives	
Savings Above Code	\$/sf
≥ 10% - <15%	0.50
≥15% - <20%	0.75
≥20% - <25%	1.25
≥25% - <30%	2.25
≥30%	3.00
<b>LEED Enhanced Commissioning</b>	<b>10% of incentive up to \$15,000</b>
Certification Bonus (LEED & Green Globes)	\$5,000 - \$15,000



**WEBINAR ON MAY 2<sup>ND</sup>  
AT 2 PM EMG 2.0!!**

\*Subject to program caps up to a maximum of \$15,000.

# WB Program Process



# Sustainable Office Design

Initiative for well-thought out, controls-rich lighting solutions in tenant spaces

Utilize sophisticated lighting controls overlaid on efficient, low-installed wattage lighting plans

Incentive: \$1/square foot of project floor area

Bonus incentives are available for lighting designers



# Required Design Criteria

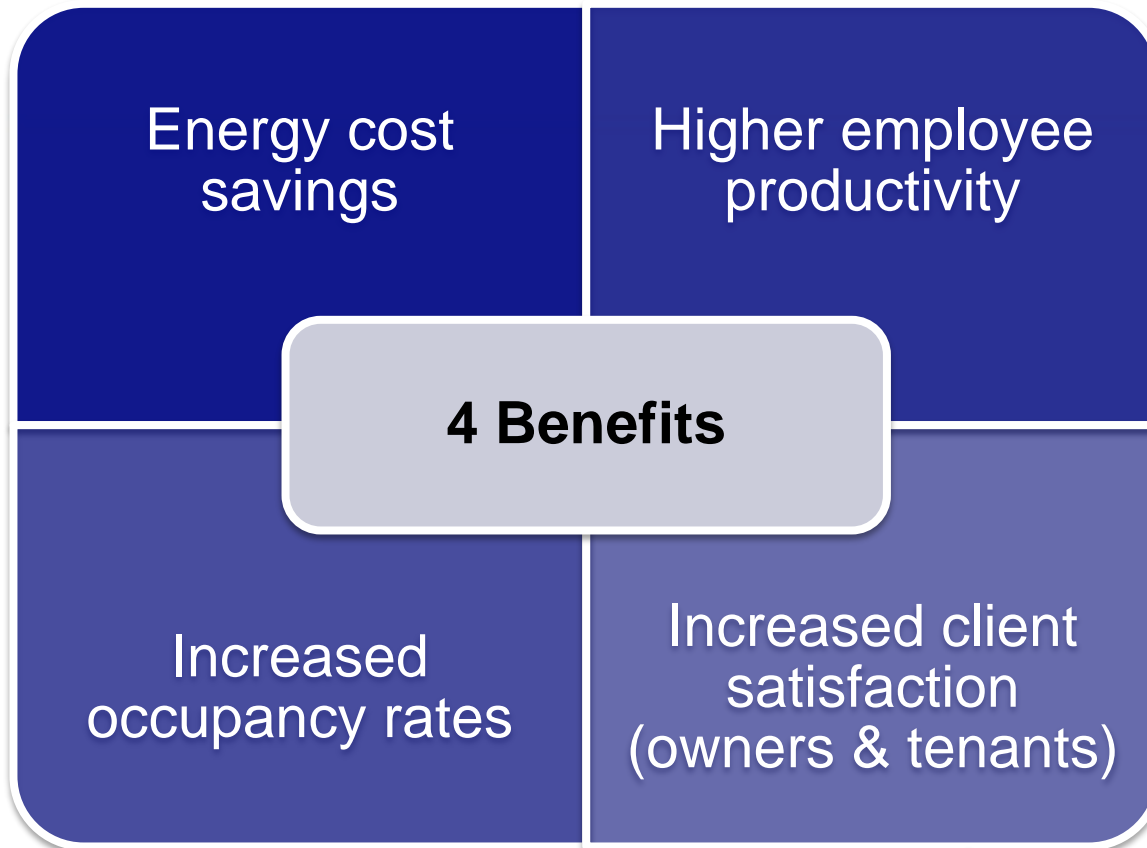
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- Minimum Space Requirement – **7,500 sf**
- Open Office Component - **>40%**
- Partition Heights - **<48 inches**
- Lighting Power Density - **<0.675 W/sf**
- Control Density - **<290 sf/control**

**Compliance with these requirements assures availability of program incentives**

Lighting Designer Incentives Available!

# Benefits of Participation



CBRE Study (2009)

- **55%** LEED/Energy Star tenants agree productivity increased
- + Productivity impact (due to fewer sick days)  
**\$1,288/worker**  
**\$4.91/SF**

	Higher Occupancy (2010)	Premiums (2014)
LEED	16-18%	8%
Energy Star	10-11%	3%

<sup>1</sup> Based on U.S. DOE “Energy Efficiency and Financial Performance” Market Evaluation, March 2014

# Energy Modeling Partners

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Establish a network of high quality energy modeling professionals

Attend brainstorming sessions with customers and design teams

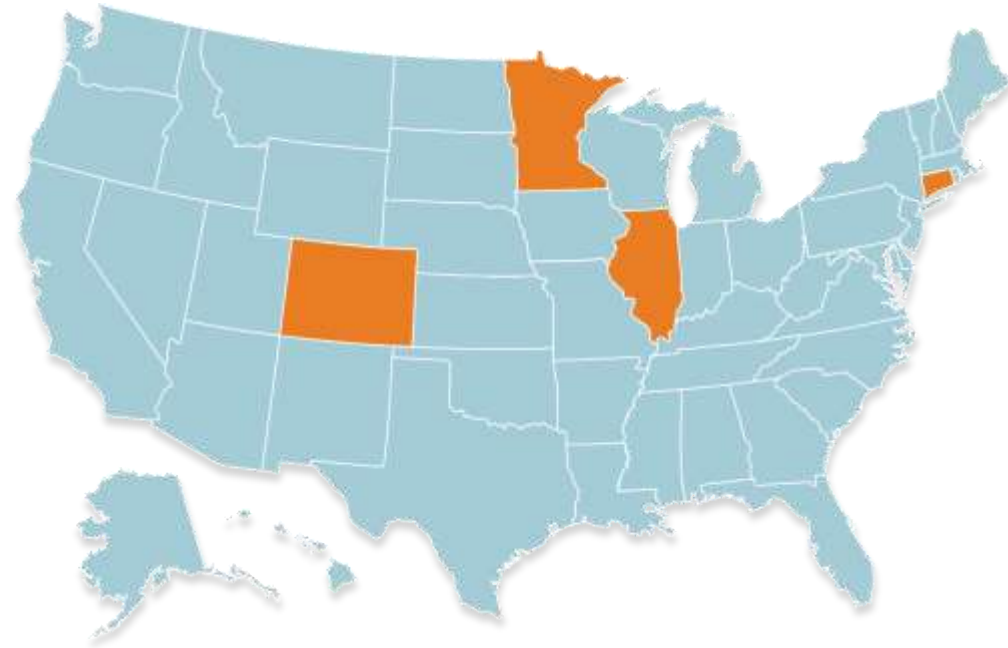
Develop scopes of work for energy modeling services

Evaluate building designs

Evaluate cost-effective, energy efficient options



# Accelerate Performance (Performance Based Procurement)



**U.S. Department of  
Energy initiative**

Support building owners  
and developers with a  
new procurement  
approach for superior  
energy performance

**Provide technical  
support to building  
owner**

Measurable energy  
performance (or EUI)  
requirement in RFP and  
contract

# Benefits

**At no additional cost to you:**

Access to experts at **NREL** and **Seventhwave**

Assist with RFP/contract language

Establish EUI goal, based on benchmarking of previous projects and peer buildings

New construction energy modeling incentives

Financial incentives

Empower your team to scale and sustain the approach

# Eligibility

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New construction or major renovation

Commercial, industrial or multi-family buildings

Pre-planning phase to participate (before the design team is under contract)

35-70% energy reduction goals

# Website

<http://www.energizect.com/your-business/solutions-list/Energy-Conscious-Blueprint>

The screenshot shows the 'Energy Conscious Blueprint' page on the energizect.com website. The page features a navigation bar with 'Home', 'Your Business', 'Your Team', 'Benefits and Resources', and 'Contact Us / Client Support'. The main content area includes a hero image with a yellow hard hat and a callout box: 'Financial Incentives to Help Designated Builders for Energy Efficiency'. Below this, there is a section titled '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.' The page is divided into several columns of text and links, including sections for 'New Construction - Major Renovation - New Replacement Equipment', 'Get Started Now', 'What Our Customers Say', 'Success Stories', and 'Forms & Documents'. A large orange arrow points from the 'Forms & Documents' section on the left towards the right side of the image.

1.

Forms & Documents

C&I Energy Efficiency Incentive Application

Download

2.

2017 ECB Data Collection

Download

# Vendor Rollout

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## 2017 CT Commercial and Industrial Business Partner Program Overview

Wednesday, April 19, 2017 from 7:30 AM to 12:00 PM

### Location:

Radisson Hotel  
100 Berlin Rd  
Cromwell, CT 06416

### To Register:

<https://events.r20.constantcontact.com/register/eventReg?oeidk=a07ee0pt1vq5b4d208a&oseq=&c=&ch=>



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# Thank You!

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