

Clean Energy Finance and Investment Authority

### **C-PACE:**

A Financing Tool to Make Your Project Happen

Connecticut Power and Energy Society September 11, 2013

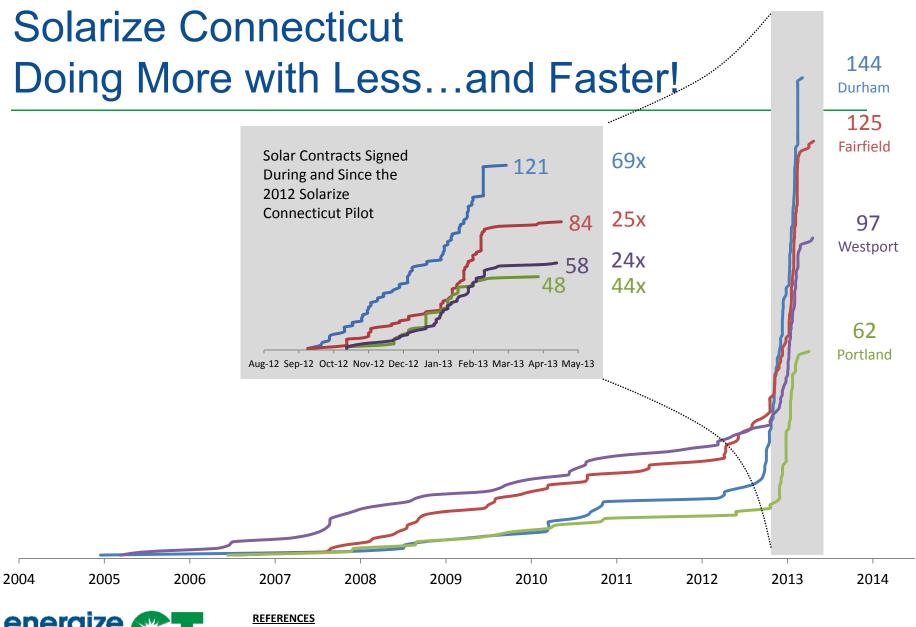
### Connecticut's "Green Bank"



...transitioning programs away from government-funded grants, rebates, and other subsidies, and towards deploying private capital

...CEFIA was established in 2011 to develop programs that will <u>leverage private sector capital</u> to create long-term, sustainable financing for energy efficiency and clean energy to support residential, commercial, and industrial sector implementation of energy efficiency and clean energy measures.







Graphic created by Ken Gillingham, Assistant Professor at Yale University School of Forestry and Environmental Studies (2013)

## Property Assessed Clean Energy

 An innovative financing structure that enables commercial, industrial, and multi-family property owners to access financing for qualified energy upgrades and repay through a benefit assessment on their property tax.

Private capital provides 100% upfront, low-cost, long-term funding

Repayment through property taxes

A senior PACE lien is put on the property and stays regardless of ownership



## Municipalities Opted into C-PACE

- Avon
- Beacon Falls
- Berlin
- Bloomfield
- Branford
- Bridgeport
- Brookfield
- Canaan
- Canton
- Chester
- Clinton
- Coventry
- Danbury
- Durham
- East Granby

- East Haddam
- East Hampton
- East Hartford
- Glastonbury
- Greenwich
- Hartford
- Killingworth
- Manchester
- Mansfield
- Meriden
- Middletown
- Milford
- New Britain
- New London
- New Milford

- Newtown
- North Branford
- Norwalk
- Old Saybrook
- Plainville
- Putnam
- Simsbury
- Southbury
- Southington
- Stamford
- Stratford
- Suffield
- Tolland
- Torrington
- Trumbull

- Waterbury
- Waterford
- West Hartford
- Westbrook
- Westport
- Wethersfield
- Wilton
- Windham
- Windsor
- Windsor Locks
- Vernon

63% of the C&I
Market is "Open
for Business"



## **Project Eligibility**

#### Anything that saves energy from baseline ... as long as it isn't going anywhere

- High efficiency lighting
- HVAC upgrades
- New automated building and HVAC controls
- Variable speed drives (VSDs) on motors fans and pumps
- High efficiency chillers, boilers, and furnaces
- High efficiency hot water heating systems

- Combustion and burner upgrades
- Fuel switching
- Water conservation
- Heat recovery and steam traps
- Building enclosure/envelope improvements
- BMS
- Renewable energy systems



# 855 Main Street (Bridgeport) Case Study – Deep Energy Efficiency

#### **Project**

\$1,990,000 in energy efficiency financed (after \$469,024 in CEEF incentives), ranging from the installation of variable frequency drives to chiller replacements to new energy efficient windows to new cooling towers.

#### **Financing**

Save owners \$258,563 per year versus \$195,411 in annual C-PACE assessment.

### **Impact**

- Over 1,366,000 kWh saved a year over 60%
- 36,240 therms saved a year over 70%





# 100 Roscommon (Middletown) Case Study – Energy Efficiency and Renewables

#### **Project**

 \$2,535,766 in energy efficiency and renewable energy financed (after \$277,906 in CEEF incentives) including the installation of air units, variable frequency drives, high efficiency lights, occupancy sensors, air leakage improvements, an upgraded energy management system, and a 260 kW ground-mounted photovoltaic system.

#### **Financing**

Energy savings of \$224,272 annually –
 of which about \$33,000 is ZREC revenue – with a C-PACE benefit assessment of \$189,953

#### **Impact**

- Nearly 1,100,000 kWh saved a year over 85%
- 269 mmBTU saved a year about 30%





# Bushnell Center (Hartford) Case Study – Boiler Replacement at Non-Profit

#### **Project**

\$650,000 boiler replacement

#### **Financing**

- \$384,000 of replacement financed through 20 year C-PACE assessment.
- \$250,000 covered with grant from Department of Economic and Community Development.

#### **Impact**

Annual savings of \$48,000



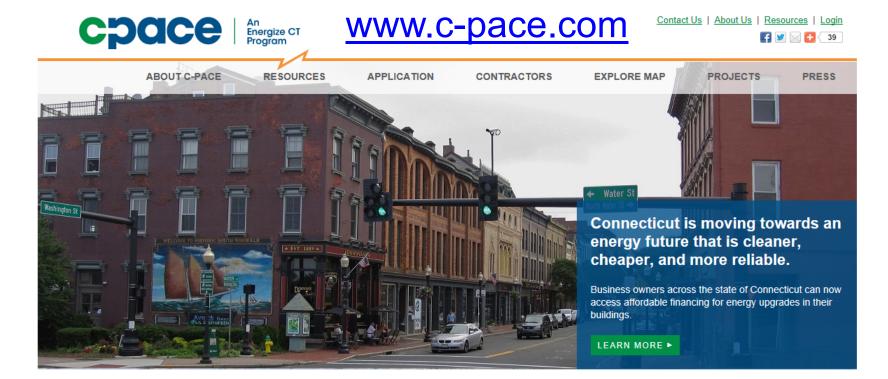


# C-PACE A Financing Tool to Make Your Project Happen

Project Type	# of Projects in the Pipeline	Average Project Size	Estimated Total Project Costs	Square Footage (Avg/Tot)
Energy Efficiency	42	\$855,528	\$35,932,168	56,023/2,532,970
Renewable Energy	30	\$558,378	\$16,751,353	31,037/931,097
Both	17	\$612,155	\$10,406,632	75,805/1,288,685
Unlisted	24	\$462,500	\$11,100,000	36,560/877,436
Total	113		\$74,190,152	



### **C-PACE** Website



Whether you are a building owner, a municipality, a contractor, project developer, or an investor, you can get started on C-PACE now. It's easy.





## Empowering you to make smart energy choices

Jessica Bailey, Director of C-PACE

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