

Clean Energy Finance and Investment Authority

# C-PACE: A financing tool for building owners

# Agenda

- Who is CEFIA?
- What is C-PACE?
- The C-PACE Advantage
- CEFIA's Role in Designing C-PACE
- The C-PACE Process



# **Energy Challenge in Connecticut**



#### **High Cost**

CT has THE highest cost for electricity in the "lower 48"



#### Old, Energy Inefficient Building Stock

CT has some of the oldest and most energy inefficient building stock



#### **Need for "Cleaner / Cheaper" Energy Sources**

Programs that will diversify our energy mix into renewable/clean power



## "More Reliable" Grid

5 major storms in 2 years with widespread outages



## Who is CEFIA?



Help ensure Connecticut's energy security and community prosperity by realizing its environmental and economic opportunities through clean energy finance and investments.



Support the Governor's and legislature's energy strategy to achieve cleaner, cheaper and more reliable sources of energy while creating jobs and supporting local economic development



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# 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.

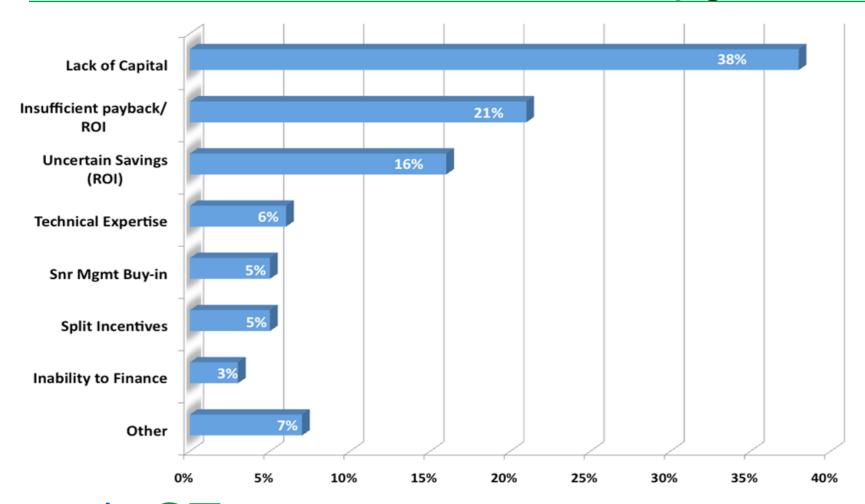
Private capital provides 100% upfront, low-cost, long-term funding

Repayment through property taxes

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



# CRE owners face barriers to upgrades





## C-PACE Addresses Key Barriers

Near term plan to sell?

Lack of funding?

Cannot assume more debt?

Insufficient payback/ROI?

Split incentives?

Uncertain savings/technical expertise?

Tax obligation fixed to property

100% upfront, 20 year financing

Assessments may qualify as OPEX

Positive cash flow in year 1

**Assessment/savings pass to tenants** 

**Technical underwriting / SIR>1** 



## Connecticut Special Session Public Act 12-2 (June 2012)

- Commercial, industrial & multi-family property
- Requires the consent of the existing mortgage lender
- Requires SIR>1; permanently affixed
- Enables municipalities to opt-in
- Enables CEFIA to administer a statewide program



## C-PACE Advantage to other stakeholders

#### **Capital Providers**

- Low risk investment opportunity
  - Senior lien
  - Secure repayment mechanism (taxes)
- Legal and technical structure administered by CEFIA

#### **Mortgage Lenders**

- Improves Building Financials/Risk
  - Lowers OPEX
  - SIR>1
  - No acceleration
- Creates a more attractive building for occupants and owners
- Finances deferred maintenance needs

#### Municipalities

- Creates economic development & jobs
- Reduces energy costs for businesses
- Reduces pollution



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## CEFIA's Role in C-PACE

## Design Program

- Publish Guidelines November 2012
- Onboard Municipalities
- Website launched (www.c-pace.com)

# Administer Program

- Technical Underwriting
- Marketing & Outreach
- Work with Existing Mortgage Lenders

## Attract Private Capital

- Qualify Capital Providers
- Offer Credit Enhancement tools (as needed)
- Provide capital (as needed)
- Develop warehouse / bonding authority (Q2 2013)



# Municipalities Opted into C-PACE

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

- East Haddam
- East Hampton
- East Hartford
- East Windsor
- Enfield
- Fairfield
- Farmington
- Glastonbury
- Granby
- Greenwich
- Groton
- Hartford
- Killingworth
- Manchester
- Mansfield
- Meriden
- Middletown
- Milford
- Montville

- New Britain
- New Haven
- New London
- New Milford
- Newtown
- North Branford
- North Canaan
- Norwalk
- Norwich
- Old Saybrook
- Plainville
- Portland
- Putnam
- Rocky Hill
- Seymour
- Simsbury
- Southbury
- Southington
- Sprague

- Stafford
- Stamford
- Stonington
- Stratford
- Suffield
- Tolland
- Torrington
- Trumbull
- Vernon
- Waterbury
- Waterford
- West Hartford
- West Haven
- Westbrook
- Westport
- Wethersfield
- Wilton
- Windham
- Windsor
- Windsor Locks



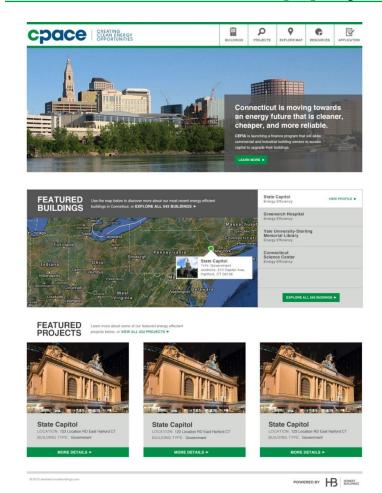
# Municipalities Opted into C-PACE



80% C&I Market



# Customers Apply Into C-PACE



Address of Property	Date of construction
	DD/MM/YYY
Is a parking area associated with the building? If yes, provide description (above/below ground, connected)	Gross square footage (not including any parking area)
⊎ Yes ⊎ No	
Who occupies this property?	enant
Date and description of last major renovation. (defined as a renovation that either involved expansion or reduct building's gross floor area by 10% or more, or that impacted total energy use by more than 10%).	What type fuel use? natural gas, oil, steam; their provider (s) into tion of the
DD/MM/YYY Description	Electricity provider
Do you currently pay property taxes on building	Port Safety (1945 - 1945 - 1955) Indiana Park (1955) (1955) (1955) (1955) (1955) (1955) (1955) (1955) (1955)
Is there a current mortgage on the property?	Upload recent annual financial statement of property
	Choose File
	(Choose File)  of last assessment   DDMM/YYY   Estimated current value
Property assessed value	of last assessment DOMMYYY Estimated current value
Property assessed value Date of  Amount of debt (correct custianding loss balance, including a breakend of the amount of the 1st or 2nd)  Amount on 1st	of last assessment DOMMYYY Estimated current value
Property assessed value Date of  Amount of debt (correct custianding laws balance, including a breaked of the amount of the 1st or 2nd)  Amount on 1st	of last assessment DDMM/YYY Estimated current value



## C-PACE Partners do Technical Underwriting

## **Technical Expertise:**

#### **Celtic Energy**

- Glastonbury, CT
- \$1bn of energy-related projects
- Experience with large commercia end-users, utilities, and government

# Program Expertise: Buonicore Partners

- Milford, CT
- Modeled Energy Profile of CT
- Nationwide PACE experience

# 1

3<sup>rd</sup> Party
Administrator:
Buonicore
Partners

# Real Estate Expertise:

# Sustainable Real Estate Solutions

- Trumbull, CT
- Benchmarking Database
- Industry leader in building energy performance assessment



## **CEFIA Team does Financial Underwriting**

- LTV, including C-PACE, must not exceed 80%
- Positive operating profit and net income in each of last 2 fiscal years
- Positive cash from operations in each of last 2 fiscal years
- Debt service of at least 1.25x for last fiscal year
- Current ratio of at least 1.00:1.25
- Total Liabilities / Tangible Net Worth not in excess of 2.00:1.00
- Interim statements disclose no material adverse change in financial condition
- CEFIA exposure must not exceed 35% of the value of the property



## Determine 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



## **CEFIA Sources Capital**



## Construction and Term Financing from CEFIA



- CEFIA authorized \$40M short term facility for construction and term financing
  - Deutsche Bank USA





Sells down transaction through bid process



 CEFIA qualified 14 capital providers through a RFI.

#### **Owner Arranged Financing**

 Property owner is free to choose their capital provider from the private market. There is no government financing required.











#### Renew Energy Partners

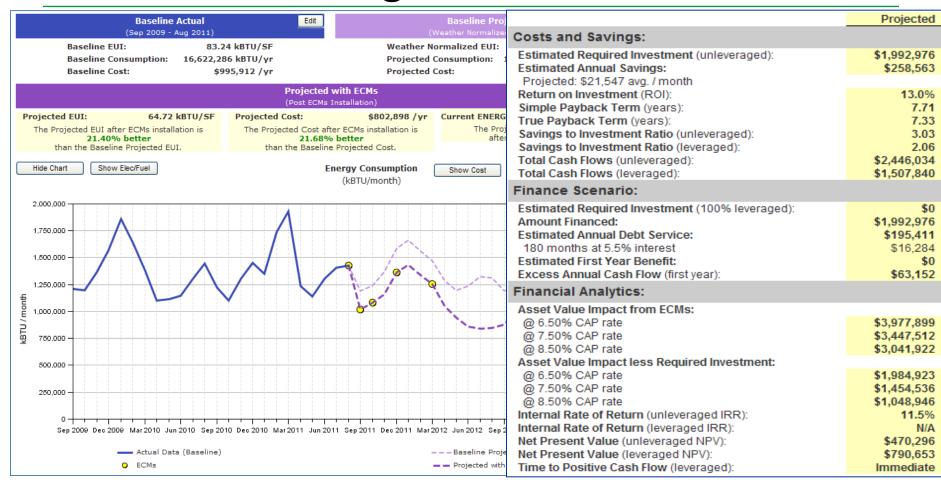
A Smart Approach to Making Energy Efficient Upgrades





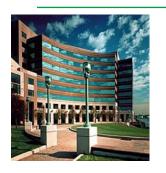
structured finance ASSOCIATES, LLC

## M&V: Data Management Platform





## The C-PACE Process



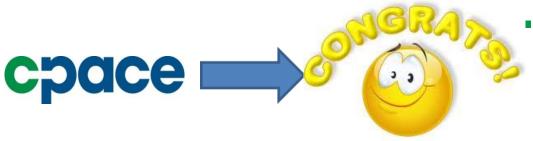


 1. Building owner engages contractor to develop scope of work; works with utilities (CEEF) to incorporate incentives





 2. Owner applies to C-PACE program at <u>www.c-</u> <u>pace.com</u>



3. Third party review of technical and financial details



## The C-PACE Process





 4. C-PACE alerts municipality; lien is placed on property





 5. CEFIA offers 100% upfront financing to owner

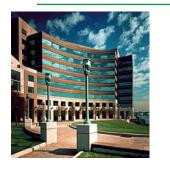


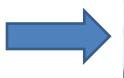


6.Project commences



## The C-PACE Process







 7. Owner remits payment to municipality as benefit assessment charge





 8. Municipality remits PACE assessment to CEFIA





 9. CEFIA "sells down" transaction to capital provider to replenish funds



## Program Snapshot: First Year

- 75 towns on board
- 80% of the CT market eligible
- 200+ contractors trained
- 15 qualified capital providers
- 113 Projects in Pipeline
  - Est. \$50 million in projects
- \$40M in CEFIA capital
  - \$20 million approved
  - \$ 7 million in closed transactions



# Case Study: Solar and Lighting Upgrade Norwalk Shopping Center

#### **Project**

 \$550,000 exterior LED lighting upgrade and solar parking canopy.

#### **Financing**

- \$185,000 of lighting upgrade financed through 13 year C-PACE assessment. CEFIA providing construction financing.
- \$365,000 solar parking canopy received a ZREC
- Savings of \$55,000 plus 30% ITC

#### **Impact**

- 741k kBTUs saved
- Produces 5.8M kWh in clean energy







# Case Study: Energy Efficiency Upgrade 855 Main Street Bridgeport

## **Project**

 \$1,990,000 energy efficiency measures, ranging from the installation of variable frequency drives to chiller replacements to new energy efficient windows to new cooling towers.

## **Financing**

 Save owners \$241k per year versus \$166k in annual C-PACE assessment. Net savings of \$80k.

## **Impact**

 133M kBTUs saved over life of project





# Case Study: Boiler Replacement Bushnell Center for the Performing Arts

## **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





# Case Study: Energy Efficiency Upgrade in Simsbury

### **Project**

- \$675,000 energy efficiency upgrade, including
  - Installation of Air Leakage Improvements
  - High Efficiency lights
  - Occupancy Sensors and Upgraded Energy Management System
  - New Rooftop Units

## **Financing**

Annual savings \$61,000

## **Impact**

18M kBTU saved





## Case Study: Solar and Energy Efficiency Upgrade in Middletown

## **Project**

- \$2,535,766 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

## **Impact**

- 51M kBTUs saved
- 8.5M kWh clean energy produced





# Case Study: Solar Project in Hartford

## **Project**

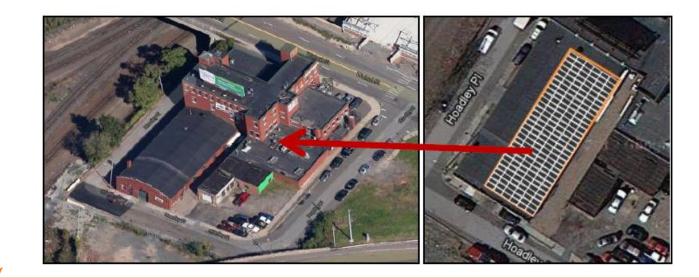
\$145,000 solar installation

### **Financing**

- ZREC award of \$164.22 / MWh from CL&P,
- With ZREC and energy savings, owner expected to see revenue of \$21,385 per year

## **Impact**

 1.3M kWh clean energy produced





# Case Study: Solar Project in Hartford

## **Project**

\$325,000 solar installation

### **Financing**

ZREC award of \$164.22 / MWh from CL&P,

With ZREC and energy savings, owner expected to see revenue of

\$49,916 per year

## **Impact**

2,8M kWh clean

energy produced









www.c-pace.com

## Empowering you to make smart energy choices

Jessica Bailey, Director C-PACE
Clean Energy Finance and Investment Authority
860.257.2888
Jessica.Bailey@ctcleanenergy.com