

#### CDFA-Bricker PACE Webinar Series: Focusing on Sustainability Using PACE



## Welcome

The Broadcast will begin at 11:00 AM (Eastern)



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#### CDFA-Bricker PACE Webinar Series: Focusing on Sustainability Using PACE

#### **CDFA Administrator**



**Pearl-Jean Mabe** 

Director of Research and Technical Assistance Council of Development Finance Agencies

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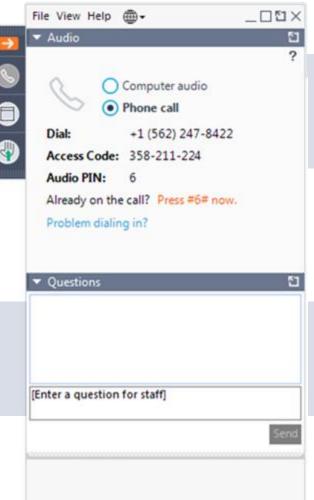
# In Partnership with



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Using your telephone will give you better audio quality.





**GoTo**Webinar

Submit your questions to the panelists here.

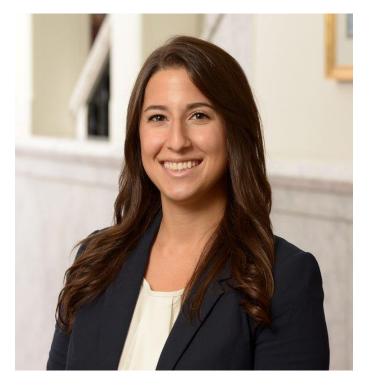




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#### **Moderator**



Brooke Mangiarelli Associate Bricker & Eckler, LLP

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#### CDFA-Bricker PACE Webinar Series: Focusing on Sustainability Using PACE

#### **More About This Series**

#### **CDFA-Bricker PACE Webinar Series:**

**PACE 101: The Basics of PACE Financing** 

May 12, 2020

PACE Program Efficiency: Managing an Effective PACE Program

June 9, 2020

Focusing on Sustainability Using PACE

July 14, 2020

**Policy and the Future of PACE** 

August 25, 2020

**PACE Program Capitalization** 

September 22, 2020

Register online at www.cdfa.net





#### CDFA-Bricker PACE Webinar Series: Focusing on Sustainability Using PACE

#### **Panelists**



Eric Alini
Managing Partner
Counterpointe Real Estate Solutions



**Ben Kessler**Mayor
City of Bexley, Ohio



Maryrose Myrtetus
C-PACE Program Manager
Philadelphia Energy Authority



**Steve Melink**CEO
Melink Corporation

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#### Focusing on Sustainability Using PACE

#### **Brooke A. Mangiarelli**

Associate Attorney

Bricker & Eckler LLP



#### **PACE 101**



#### Property Assessed Clean Energy Financing

- Innovative tool for sustainable development
- A tax-assessment based financing mechanism for energy efficiency, renewable energy, and water conservation projects
- 100% voluntary
- Long-term, fixed rate financing
- PACE assessments transfer to the next owner upon sale of property
- Can be used in conjunction with other project finance tools, including TIF, HTC, bonds, and opportunity zones

# Special Assessments, Generally



- Traditionally used to finance public improvements
- 1736 First Assessment District in Philadelphia
- **2020** 37,000 Assessment Districts nationwide
- Governmental charges (not taxes)
- Imposed on real property near an improvement to pay costs of the improvement
- Imposed in recognition of the "special benefit" received
- Collected with and in the same manner as real property taxes

#### **PACE Assessments**



- Fund <u>private</u> improvements
- State PACE laws conclude that <u>private</u> energy conservation is a "<u>public</u> good."
- Energy efficiency improvements
  - ✓ HVAC
  - ✓ Lighting
  - ✓ Roofs, windows, insulation, elevators
- Alternative energy improvements
  - ✓ Solar photovoltaic (PV) and thermal
  - ✓ Wind
  - √ Geothermal
  - ✓ Biomass
- Water efficiency improvements



#### **PACE Process Overview**



- 1. State passes legislation enabling use of property-based tax assessments for clean energy projects
- 2. Tax-collecting municipalities within the state pass local legislation to enable PACE programs
- 3. Programs are administered by the state, municipality, or contracted to an independent third-party administrator
- 4. Projects are financed by government bonds or loans from PACE capital providers

# Why PACE?



DEVELOPMENT: Creates local jobs

ECONOMIC DEVELOPMENT:

Lowers cost of doing business

Maintained and upgraded

BOTTOM LINE: Directly impacts

local businesses

Environmental impact

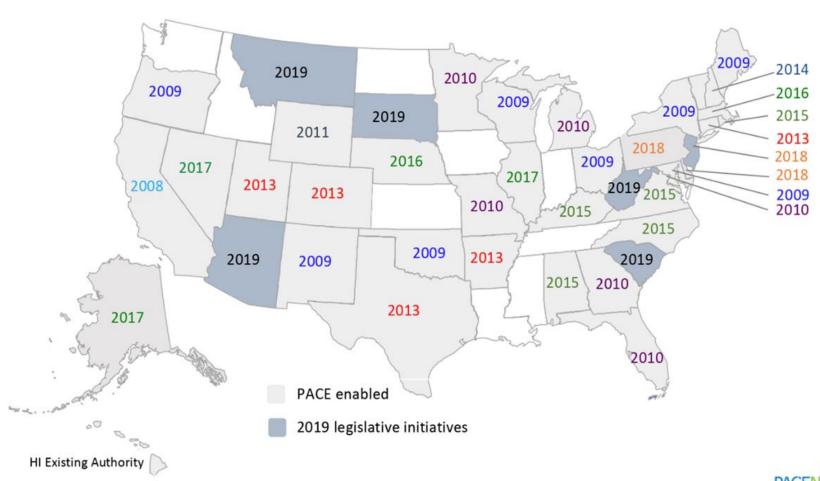
No down payment

- Covers 100% of the hard and soft costs of an energy project, eliminating the need for up-front capital
- No personal guarantees
  - Generally, delinquent PACE assessments are enforced like delinquent real property taxes
- Off-balance-sheet treatment preserves borrowing capacity
- Long term (useful life of improvements), fixed-rate
- PACE assessments transfer with property
- Existing PACE-eligible assets can be refinanced under certain conditions
- Energy savings often offset the cost of improvements

Source: PACENation

# PACE Nationwide (2020)



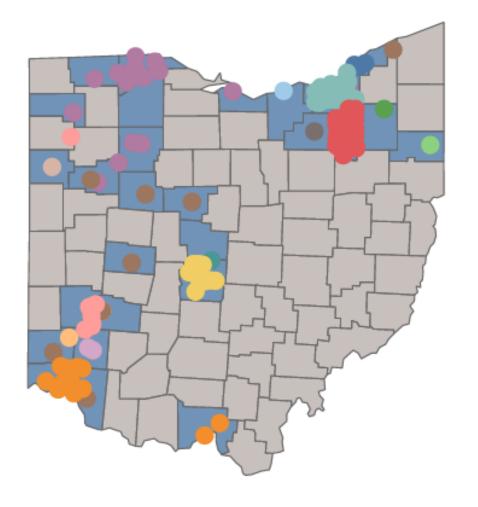




#### **Ohio PACE**



- CPACE Local programs active since 2009
- \$348,727,427.51 total PACE financing to date
- RPACE Statewide program to become active in 2020



# **Ohio PACE Programs**





# **Sustainability Initiatives**



- Local governments can use PACE as a valuable tool to meet sustainability goals
- The Green Cincinnati Plan (Cincinnati, OH)
  - ✓ Advance the sustainability, equity, and resiliency of Cincinnati
- Recommendations include:
  - ✓ "Encourage development
    of high-performance
    buildings"
  - ✓ "Implement programs to increase solar energy generation for the private market (e.g. Solarize, PACE financing)"



Green Cincinnati

# **Sustainability Initiatives**



- City of Columbus, OH
- Selected as 1 of 25 leadership cities to participate in a 2-year acceleration program to tackle climate change and promote a sustainable future
- Goal to accelerate \$15 million in new clean energy financing through commercial and residential PACE





# **Sustainability Initiatives**



- City of Bexley, OH
  - One of the first cities in Ohio to adopt Residential PACE legislation
  - Strong focus on improving sustainability practices
- Bexley's Environmental Sustainability Advisory Committee (ESAC) preparing to launch Residential PACE in 2020





"Residents will have access to better interest rates and longer terms to help encourage feasible solar, windows, insulation, HVAC (heating, ventilation and air conditioning) and other energy efficient improvements"

– Mayor Ben Kessler

# Ohio Case Studies



## Sycamore Township, OH



- Kids First Sports Center
- LED lighting, 150 kW solar
- \$656,000 PACE funded
- 40% Energy Savings, positive cash flow



"We achieved a level of energy efficiency & cost control we never thought possible. PACE funded the solar array which will help power the building for the next 30 years."

- Jeff Metzger, Owner, Kids First Sports Center

## Cincinnati, OH



- Urban Artifact
- HVAC, windows, building shell
- \$225,000 PACE funded
- \$28,530 annual energy savings





# Dublin (Columbus), OH



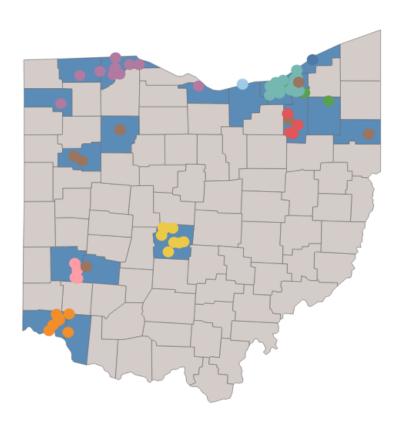
- Techmart (office and industrial complex)
- Lighting, HVAC controls
- LED lighting, 150 kW solar
- \$847,500 PACE funded (\$443,00 refinanced)
- \$92,500 annual energy savings



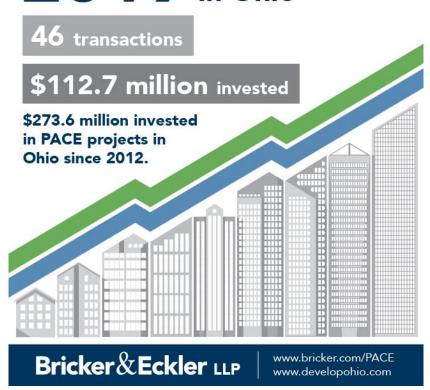
#### **Bricker PACE Resources**



#### www.bricker.com/PACE



2019 PACE Financing in Ohio







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#### **Panelist**



**Ben Kessler**Mayor
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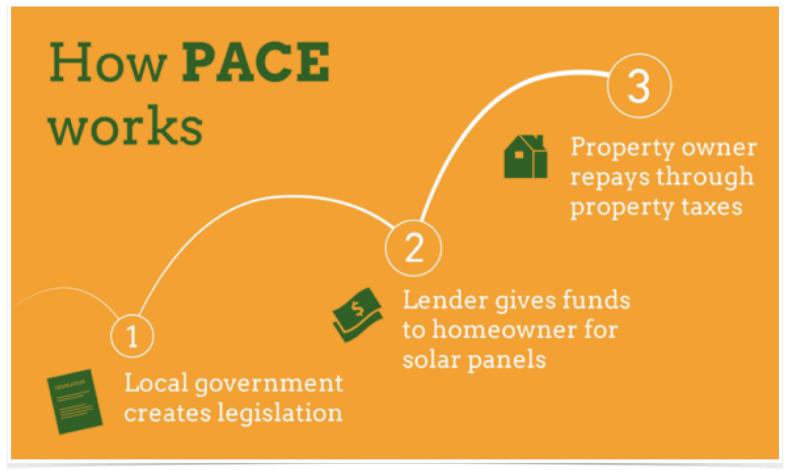


# ABOUT (GREEN) BEXLEY





# WHY RESIDENTIAL PACE?





# PACE + ZONING REFORMS





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#### **Panelist**



# Maryrose Myrtetus C-PACE Program Manager Philadelphia Energy Authority

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# Philadelphia C-PACE Program Growing the City's Green Economy

### Philadelphia Energy Authority



CLEAN, EFFICIENT, AFFORDABLE

#### energy as a tool for impact

#### development

Projects that move the needle on carbon reduction are bringing established companies, investors and entrepreneurs to the city.

#### jobs

Statewide, the number of clean energy jobs already outpaces the number of fossil fuel jobs.

#### poverty

Reducing the energy burden for Philadelphians means homes that are safe, warm, healthy and affordable for the long term.

#### public health

In public buildings, schools, homes and businesses, clean and efficient energy is a vehicle for improving the health of our communities.



# **Philadelphia Energy Authority**



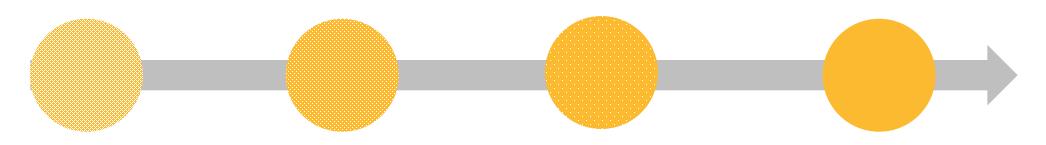
#### **Stoking the Green Economy**

	New Project Investments	Jobs Created*
Year One: 2017	\$53 million	225
Year Two: 2018	\$48 million	759
Year Three: 2019	\$35 million	317
Total To Date	\$136 million	1,301
Goal by 2026	\$1 billion	10,000

<sup>\*</sup>Direct, indirect, and induced jobs

- ✓ Secured **70MW solar PPA** to procure 22% of City's electricity
- √ ~3MW of residential rooftop solar contracted through Solarize program
- ▼ 80,000+ households enrolled in water and sewer protection program
- ✓ 25% reduction in energy consumption at Art Museum with \$12MM project
- ✓ Launched new C-PACE program

### **C-PACE** in Philadelphia



#### 2018:

Pennsylvania authorized the creation of C-PACE finance programs

#### 2019:

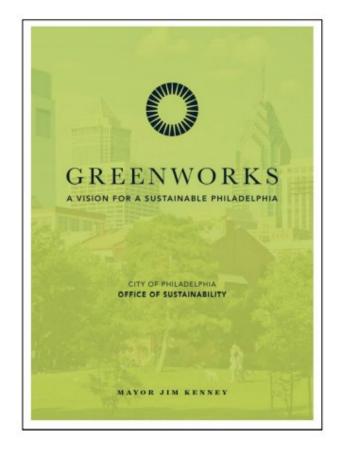
Philadelphia
authorized CPACE and
assigned PEA as
Program
Administrator;
PEA launches CPACE program

#### 2020:

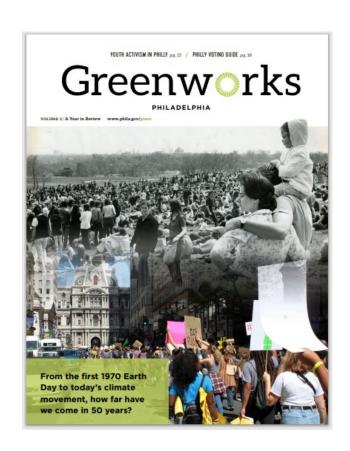
First deal in Pennsylvania closed in Philadelphia!

# Goal: Philadelphia C-PACE program supports robust energy efficiency and clean energy growth throughout the City

### Philadelphia's Sustainability Vision

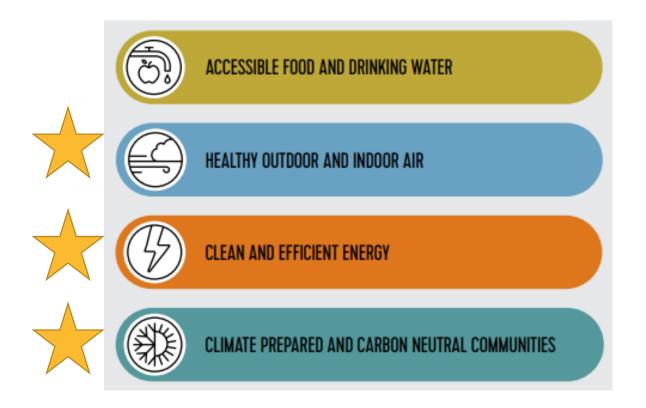


**2016 Sustainability Plan** 



2019 Annual Review

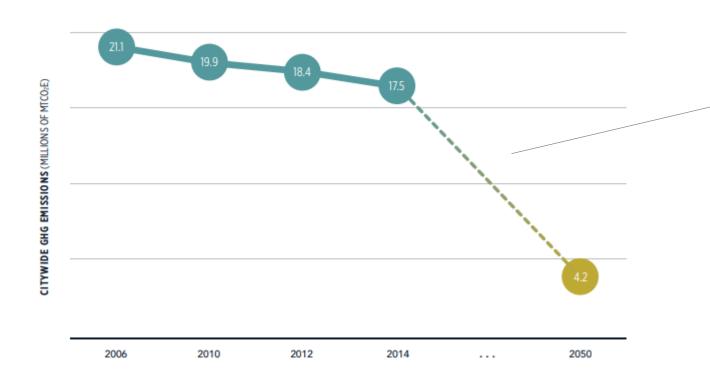
### Philadelphia's Sustainability Vision





# Philadelphia's Carbon Reduction Goal

#### PHILADELPHIA'S CARBON TRAJECTORY



Mayor Kenney has committed
Philadelphia to cutting
citywide carbon pollution by
80% by 2050
(from 2006 levels)

Buildings & Industry Make Up 72% of Philadelphia's Carbon Footprint



# Tying It All Together with C-PACE



~70% of Philadelphia's carbon footprint comes from buildings and industry



The EPA estimates commercial buildings waste 30% of the energy they use



Philadelphia has committed to an 80% carbon reduction by 2050



By some measures, every \$1MM of C-PACE deployed equates to removing ~1,000 cars from the road

# **Ecosystem of Supportive Policies - New Within the Past 12 Months Alone**



**Building Tune-Up** 

Affirmation of high performance or tune-up once every five years

First deadline is in 2021



**Solar Rebate** 

\$0.10/watt for commercial installations

\$0.20/watt for residential



**Building Permit Fee** 

Capped fees for building permits for solar installations

Starting at \$200

# **C-PACE** in the COVID-19 Economy

1

Improves Cash Flow:

Energy efficiency projects financed with C-PACE can generate annual savings

2

Provides Liquidity:

Retroactive financing can reduce debt service payments or free up cash for businesses

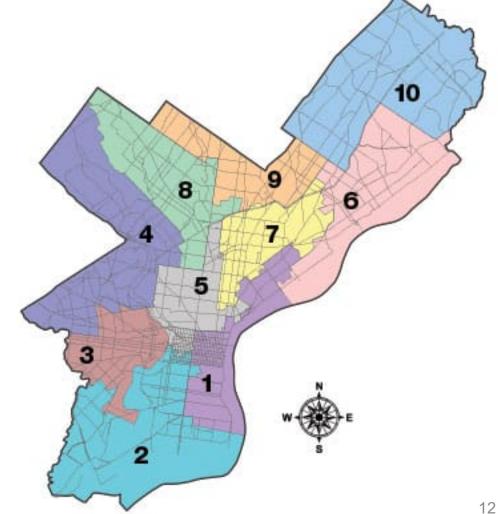
3

Strengthens City & Workforce:

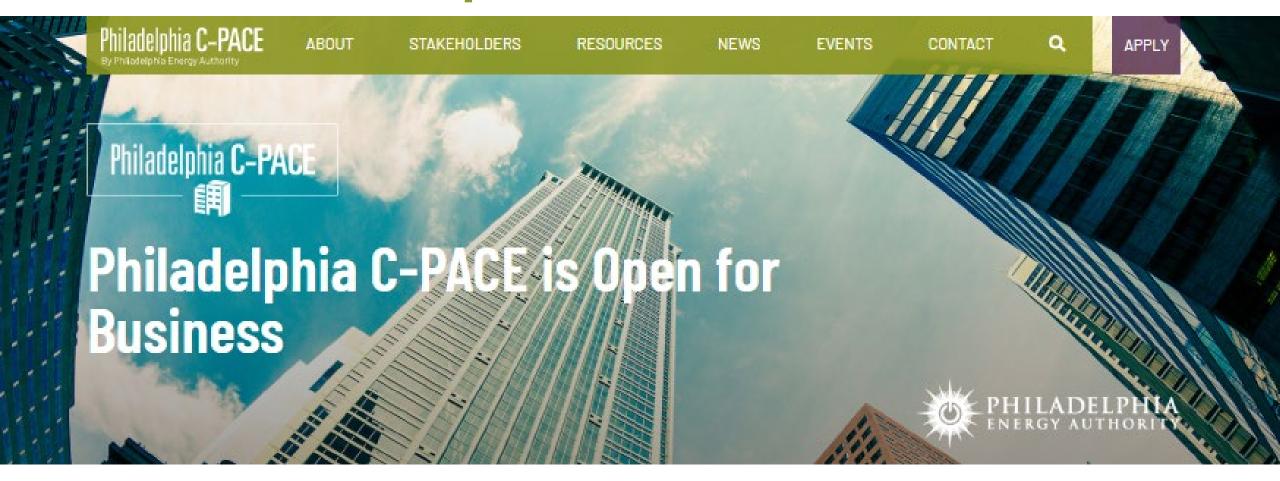
Addressing
Philadelphia's
carbon footprint
creates a more
resilient city

**C-PACE** Pipeline Throughout the City

- Current pipeline of projects stretches across 8 out of 10 City Council districts
- C-PACE is a key financing tool to help certain projects round out their capital stacks can be the difference between a project stalling and a project moving forward



# New Philadelphia C-PACE Website







# **Contact Information**

**Philadelphia Energy Authority** 

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CPACE@philaenergy.org

215-686-4483



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# **Panelist**

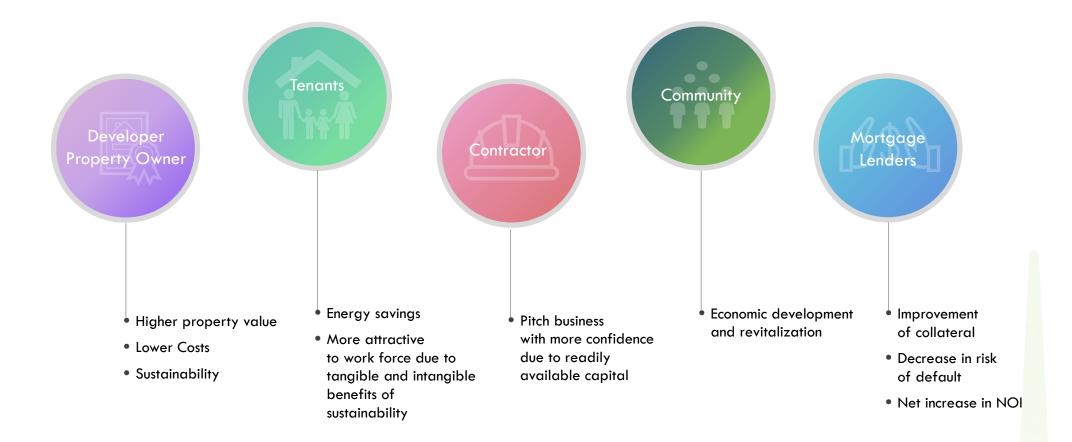


**Eric Alini**Managing Partner
Counterpointe Real Estate Solutions

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### C-PACE benefits all Stakeholders





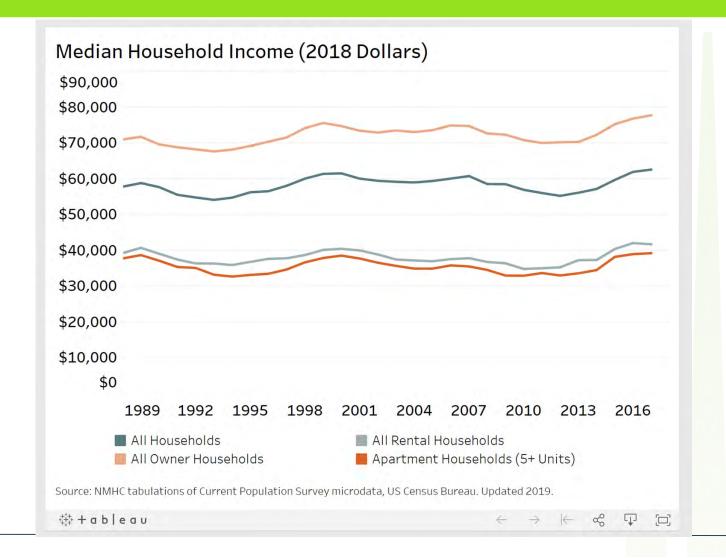


# Multifamily Demographics



## Apartment household data

- Apartment households in 5+ unit buildings have the lowest median income in the nation.
- 47% of apartment households have income
   \$35k







# Energy Injustice



### 7.3% vs 1.4% of Household Income

- low-income households pay an average of \$1.41 per square foot for utilities as compared to \$1.23 for non-low-income households.
- low-income populations often live in units that are leakier and use less efficient appliances.
- Despite the fact low-income households account for more than 30 percent of U.S. residential electricity use, only six percent of energy efficiency program investments in the U.S. are specifically geared toward low-income households

TABLE ES1. Median income, utility bill, energy burden, and unit size for households based on income type, building type, building ownership, and household race for groups across all metro areas

	Household type	Median annual income	Median size of unit (square feet)	Median annual utility spending	Median annual utility costs per square foot	Median energy burden <sup>1</sup>
Income type	Low-income <sup>2</sup> (≤80% AMI) <sup>3</sup>	\$24,998	1,200	\$1,692	\$1.41	7.2%
	Non-low-income	\$90,000	1,800	\$2,112	\$1.17	2.3%
	Low-income multifamily (≤80% AMI)	\$21,996	800	\$1,032	\$1.29	5.0%
	Non-low-income multifamily	\$71,982	950	\$1,104	\$1.16	1.5%
Building ownership	Renters	\$34,972	1,000	\$1,404	\$1.40	4.0%
	Owners	\$68,000	1,850	\$2,172	\$1.17	3.3%
Head of household race	White	\$58,000	1,600	\$1,956	\$1.22	3.3%
	African-American	\$34,494	1,290	\$1,920	\$1.49	5.4%
	Latino	\$39,994	1,200	\$1,704	\$1.42	4,1%
All households	N/A	\$53,988	1,573	\$1,932	\$1.23	3.5%

<sup>&</sup>lt;sup>1</sup> Energy burden is the percentage of household income that is spent on energy bills. To calculate median energy burden, we calculated energy burden for all households and then took the median. This value differs from the median energy burden that is calculated using median annual utility spending and income.

Source: American Housing Survey (Census Bureau 2011 and 2013a).









<sup>2</sup> Low-income includes both single- and multifamily households. Area median income (AMI) is the median dollar amount that divides the population into two equal parts.

# Supports Sustainability Goals of Local Gov.













ANN ARBOR

BURLINGTON

CINCINNATI

CLEVELAND

DALLAS

DENVER

DETROIT

ERIE

GRAND RAPIDS

ITHACA

NEW YORK CITY

HILADELPHIA

PITTSBURGH PORTLAND, ME

SAN ANTONIO

SAN DIEGO

SAN FRANCISCO

SEATTLE

STAMFORD

TORONTO

TUCSON







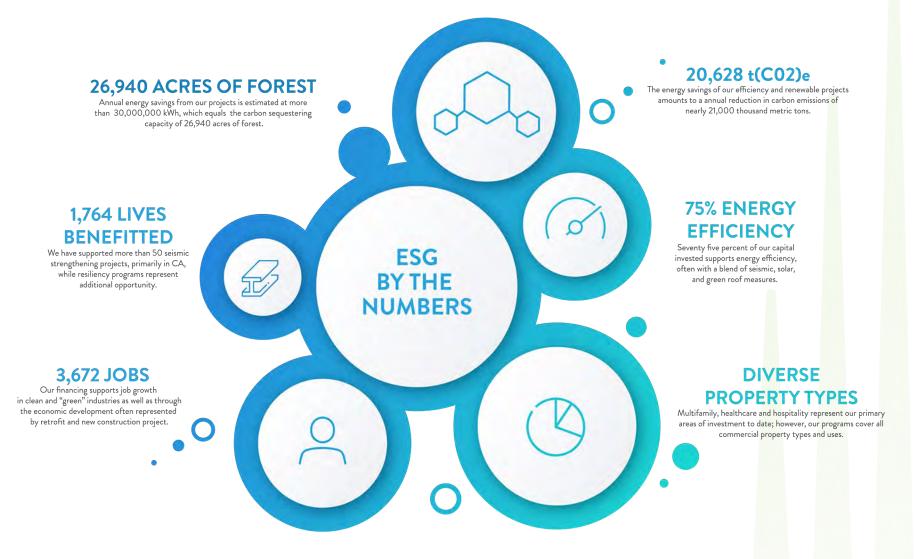
HANNON





# Private Capital Makes Impact

CSRE provides verifiable impact to reduce climate change and advance ESG goals







# C-PACE Market Coverage

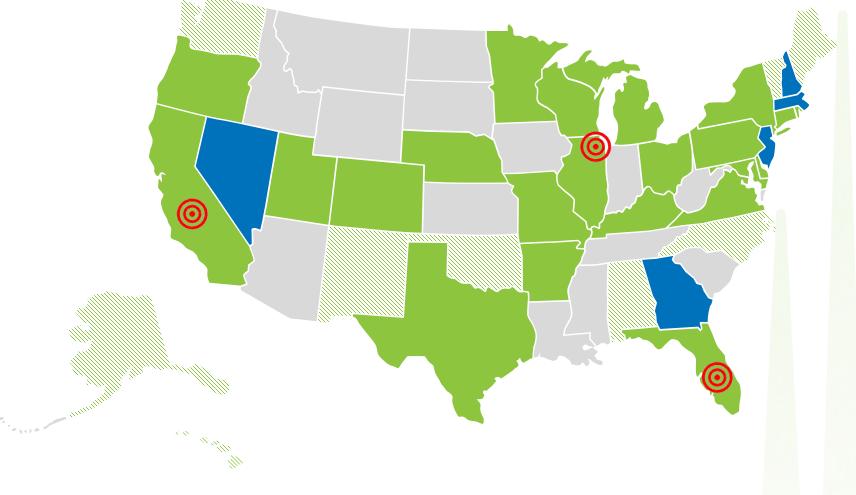
Source: PACE Nation

Commercial PACE is legislated in 36 states and D.C.

Of that total, C-PACE programs are now launched and operating in **22** states plus Washington D.C.

Although some states, such as NJ and NH are legislated, those states have limited PACE financing availability due to the rate PACE is adopted at the city/county level and other jurisdiction specific issues.

C-PACE launched
C-PACE legislated/ in-development
PACE legislated/ not yet enabled
PACE not yet legislated
Administered by Counterpointe
Energy Solutions







# What Chicago PACE can do that traditional financing can't?

100% financing secured by the property and supported by a priority tax assessment with transferability of the lien

Lower fixed interest rates for 5-30 years through the Public/Private tax assessment mechanism



A highly innovative and effective tool for improvements to commercial and multifamily real estate





# **C-PACE Illustrative Financing**

C-PACE Characteristics				
Property Location	Within Active PACE Jurisdictions			
Project Scope	<ul> <li>Upgrade/Retrofit, New Construction<sup>1</sup>, and Previously Completed Projects<sup>1</sup></li> </ul>			
Improvement Types	<ul> <li>Energy efficiency, renewable energy, water conservation, seismic retrofit, and risk mitigation</li> </ul>			
Tenancy	Stabilized or Transitional			
Assessment Size	• \$1,000,000 - \$100,000,000			
Interest Rates	• 5.25% to 6.25% (fixed)*			
Term	• 5 to 30 years, based on estimated useful life of project			
Amortization	<ul> <li>No balloon payments; assessments are self-amortizing</li> </ul>			
Maximum Assessment to Value <sup>3</sup>	• Up to 35%			
Maximum Combined LTV <sup>3</sup>	• Up to 95%			
Minimum Combined Loan and Assessment <sup>3</sup>	• DSCR 1.00x			
Prepayment Provisions	Flexible Prepayment Terms			
Recourse	Non-Recourse			

<sup>\*</sup>as of 9/1/19



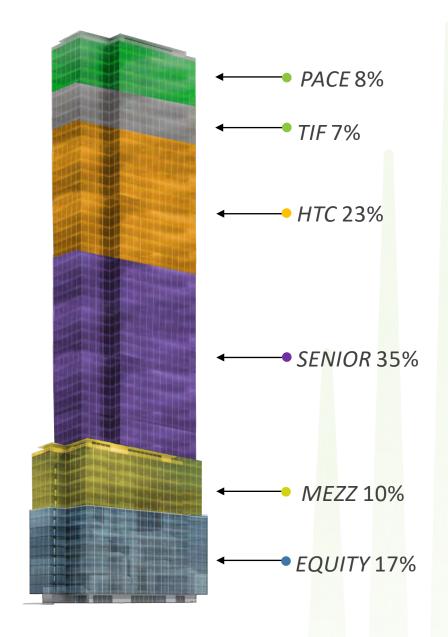




# PACE is Ideal for Complex Capital Stacks

PACE Financing in the project capital stack:

- Effective Preferred Equity in Project Capital Stack reducing need for Equity
- Sponsor keeps more higher % of the project
- Higher returns for equity
- Lower cost of funds shortens the stabilization period







# Chicago PACE Enabling Legislation

- The Illinois Property Assessed Clean Energy Act was enacted in 2017 and authorized local units of government to create PACE programs.
- The City established Chicago PACE by adopting an ordinance (SO2018-5032) and program report on October 31, 2018 that meet the requirements of the Illinois PACE Act.
- The Program supports the City's sustainability and economic development goals while promoting the
  public policy benefits of creating local jobs, promoting local utility programs and incentives, and the
  engagement of Minority- and Women-Owned Enterprises.





# Property Eligibility

In order to be eligible for the Chicago PACE program:

- Property may not be an asset to a current bankruptcy
- Property Owner must be current on all taxes, special assessments, water or sewer charges or other property assessed clean energy program assessments
- No notices of default or other evidence of property-based debt delinquency recorded and not cured
- No involuntary liens on the property, including, but not limited to, construction or mechanics liens, lis pendens or judgments against the record owner, environmental proceedings, or eminent domain proceedings





## Eligible Projects and Costs

Improvements must be the installation or the modification of permanently affixed improvements that improve energy efficiency, conserve water, or generate renewable energy.

Financing may include the cost of materials and labor necessary for installation or modification as well as certain other eligible costs include all related work, financing costs, and soft costs

#### **Examples of Eligible Soft Costs**

- Designs, audits and surveys, building permits, inspections, engineering, commissioning costs and service contracts
- Pre-paid warranties and service contracts for repairs and maintenance
- Related carpentry, electrical work, and other costs associated with the Eligible Energy Project
- Other improvements directly related to the energy improvements (e.g. roof upgrades to support a roof-mounted solar PV installation)
- Financing fees, and other Chicago Program costs

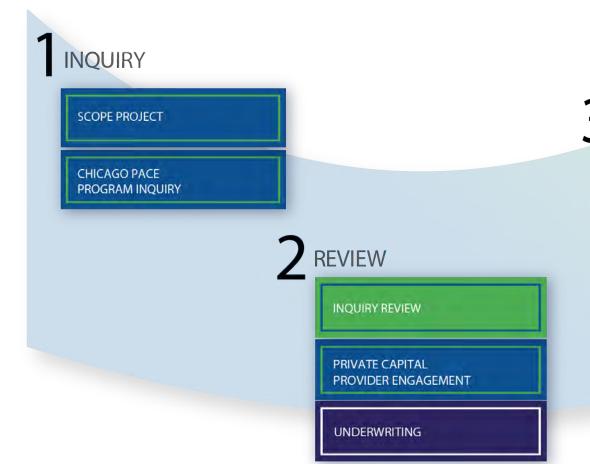




# Chicago PACE Process Overview

4 OPERATIONS





FUNDING

PROGRAM APPLICATION

STATUTORY VERIFICATION

CLOSING & COMMITMENT

**ACTION OWNER** 

Property Owner Contractor/Developer

Loop Counterpointe PACE

Private capital provider







# Where is the national market today?

- Retrofits Multifamily, healthcare and offices while they are vacant and considering adaptation to layout and HVAC
- Rescue Finance / Lookback to recently completed projects
- New Construction Multifamily and some sectors as primary mortgage and construction lenders invest





# Resiliency: The Responsive Function of C-PACE

#### Resiliency

- Wind/Storm mitigation technologies and building envelope
- Seismic Strengthening
- Generators and battery backup
- Fire resiliency
- Enhanced HVAC filtration, non-contact building automation, IAQ monitoring
- Next?

#### Agile Programs adopt qualifying measures as needed

- San Francisco | Seismic
- Florida | Wind Hardening and Battery Backup

#### **Equality | Energy Justice**

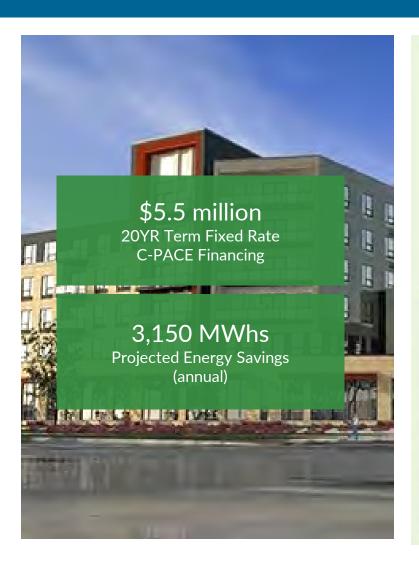
- Chicago | Invest South West
- HUD developments







# CASE STUDY: THE MILLENIUM



#### **PROJECT**

#### Development Stage:

New Construction

Building Type:

Multifamily / Mixed Use

#### City:

Edina, Minnesota Minneapolis/St. Paul MSA

#### Developers:

Dakota Pacific Luxe Residential

#### PROPERTY DETAILS

#### Property Name:

Millennium Sixty-Six

#### Scale:

Six stories

227 units

11 affordable units

Parking garage

Anticipated Occupancy July 2021



3250 West 66th Street. Edina, MN (rendering)

#### **IMPROVEMENT TYPES**

✓ Building Envelope

✓ HVAC

Direct Hot Water

✓ Lighting

Renewable energy

✓ Low-flow fixtures

#### BENEFITS

✓ Reduce WACC

✓ Increase Leverage

✓ Pass through expense

▼ Fully non-recourse to sponsor

Combine with tax credits

Retain utility rebates & incentives

#### **ENERGY IMPACT**

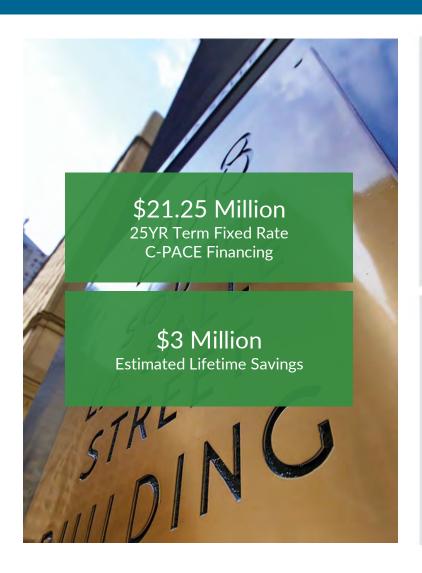
Electricity Use Reduction 3,150 MWhs/year

"The low-cost capital allows us to invest in infrastructure that will reduce our carbon footprint, and more tangibly, everyone's utility bills without a compromise to the luxury experience we are creating at Millennium Sixty Six."

> - Lane Critchfield Dakota Pacific

#### **CASE STUDY:**

# THE RESERVE HOTEL



#### **PROJECT**

#### Development Stage:

Gut Rehab

#### **Property City:**

Chicago, IL

#### **General Contractor:**

W. E. O'Neil Construction Co.

#### **Developer:**

The Prime Group

#### **IMPROVEMENTS**

- HVAC: Boiler, Pump and FCUs
- ✓ Double-pane Windows
- Interior LED Lighting
- ✓ Low Flow Fixtures
- ✓ Elevator Destination Dispatch
- Solar/Renewable



208 S. LaSalle Street Chicago, Illinois

#### **PROPERTY DETAILS**

#### **Property Name:**

The Reserve Hotel

#### **Property Type:**

Hospitality

5 Floors

232 Guest Rooms

155,810 Square Feet

#### BENEFITS

✓ Reduce WACC

✓ Increase Leverage

Pass through expense

Fully non-recourse to sponsor

Combine with tax credits

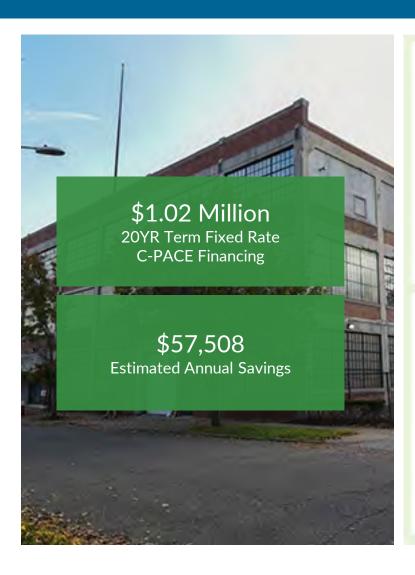
Retain utility rebates & incentives

"The Chicago PACE program provided funding that we will direct towards making the best possible energy efficiency and reliability decisions for our property, while helping us keep our capital costs down."

Michael W. Reschke Chairman/CEO The Prime Group

#### **CASE STUDY:**

# LETTS INDUSTRIES | GREEN ROOF



#### **PROJECT**

#### Development Stage:

Retrofit

#### Property City:

Detroit, MI

#### Project Developers: Inhabitect LLC and

Inhabitect LLC and Enivronmental Consulting & Technology

#### **IMPROVEMENT TYPES**

- Permeable Pavers (6,600 sq. ft.)
- **✓** Blue Roof (9,200 sq. ft.)
- Rain Garden (1250 sq. ft.)
- **✓** Green Roof (15,000 sq. ft.)
- ✓ Building Envelope
- Solar Renewables



1111 Bellevue Street (Aerial Rendering)
Detroit, Michigan

#### PROPERTY DETAILS

#### Property Name:

Letts Industries Building

#### **Building Type:**

Mixed-Use

Multi-tenant

Lofted, Industrial/ Flex Office Building

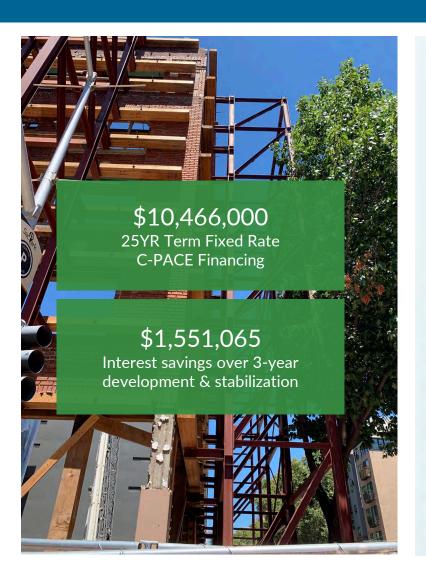
#### **BENEFITS**

- Reduce WACC
- Increase Leverage
- ✓ Pass through expense
- ▼ Fully non-recourse to sponsor
- ✓ Combine with tax credits
- ✓ Retain utility rebates & incentives

"Unlike other forms of infrastructure, green roofs provide triple bottom line benefits in both the public and private sectors. PACE financing provides the opportunity for this value added piece of infrastructure to be available to a wider audience and more financial feasible, on new and retrofit projects, than ever before."

Nathan D. Griswold, GRP, ASLA, CNSP President Inhabitect, LLC

# CASE STUDY: HYATT CENTRIC



#### **PROJECTS**

Development Stage:

Ground Up Construction

**Building Type:** 

Hotel

Property Name:

Hyatt Centric

Property City:

Sacramento, CA

Developers:

1122 7th Street LLC

#### **PROPERTY DETAILS**

11 Floors

172 Guest Rooms

109,500 square feet

Ground floor dining/mixed use

Business/Fitness Center



1128 7th Street Sacramento, California

#### **IMPROVEMENT TYPES**

Building Envelope

✓ HVAC and/or chillers

/ Wind or seismic risk mitigation

Lighting

\_\_\_\_ Renewable energy

Cool or Green Roof

#### **BENEFITS**

✓ Reduce WACC

✓ Increase Leverage

Pass through expense

Fully non-recourse to sponsor

Combine with tax credits

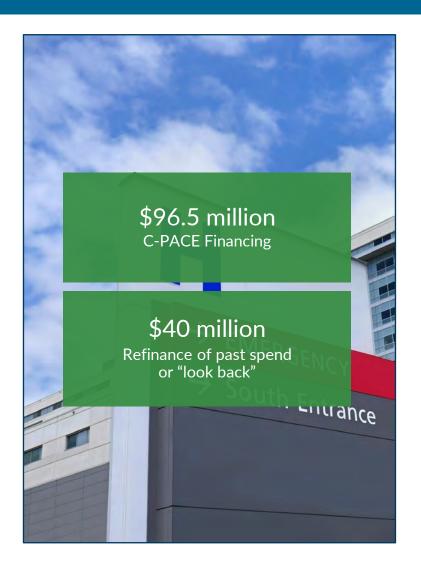
Retain utility rebates & incentives

"PACE filled a very important gap in the capital stack to complete this loan and get construction of the Hyatt Centric underway. We have found it to be a great tool for hotels to take advantage of."

Marc Sallette CBRE Senior Vice President

#### **CASE STUDY:**

# **ACUTE-CARE HOSPITALS**



#### **PROJECT**

Development Stage: Facility Upgrade

**Building Type:** Hospital Medical Facilities

> Property Locations: National

#### CT

**✓** HVAC

✓ LED Lighting

✓ Cool Roof

✓ Elevator Modernization

**IMPROVEMENTS** 

✓ Water Conservation

✓ Resiliency



#### PROPERTY DETAILS

1,309 Total Beds

Multiple Facilities

Multiple C-PACE enabled states

Average Building Age Exceeds 50 Years

#### BENEFITS

✓ Cash Out Refinance of Past CapEx

Facilitated Projects with Long Paybacks

✓ Non Recourse to Owner

✓ Attractive Fixed Rates

"The funding of nearly \$50 million, represents the largest single-borrower C-PACE transaction in the nearly 10-year history of the program."

James Hamill
Managing Director
CSCDA



# In Partnership with Bricker & Eckler ATTORNEYS AT LAW

# CDFA-Bricker PACE Webinar Series: Focusing on Sustainability Using PACE

# **Panelist**



**Steve Melink**CEO
Melink Corporation

See all of CDFA's resources online at www.cdfa.net/resources



Net Zero Energy
HQ2

Steve Melink
513.965.7308
smelink@melinkcorp.com



#### MELINK: WHAT WE DO



Integrity. Service Excellence. Innovation.



# **OUR NET-ZERO HEADQUARTERS**

#### Walking the talk in environmental stewardship

Technologies used to save approx. \$60,000 per year in energy costs and earn an Energy Star Rating of 99:

Geothermal, Natural Lighting, Building Automation Software, Waterless Urinals, Solar Photovoltaic, Wind Energy, Solar Thermal, Conservation Habits

 $See \ our \ Annual \ Sustainability \ Report \ at \ melink corp.com$ 







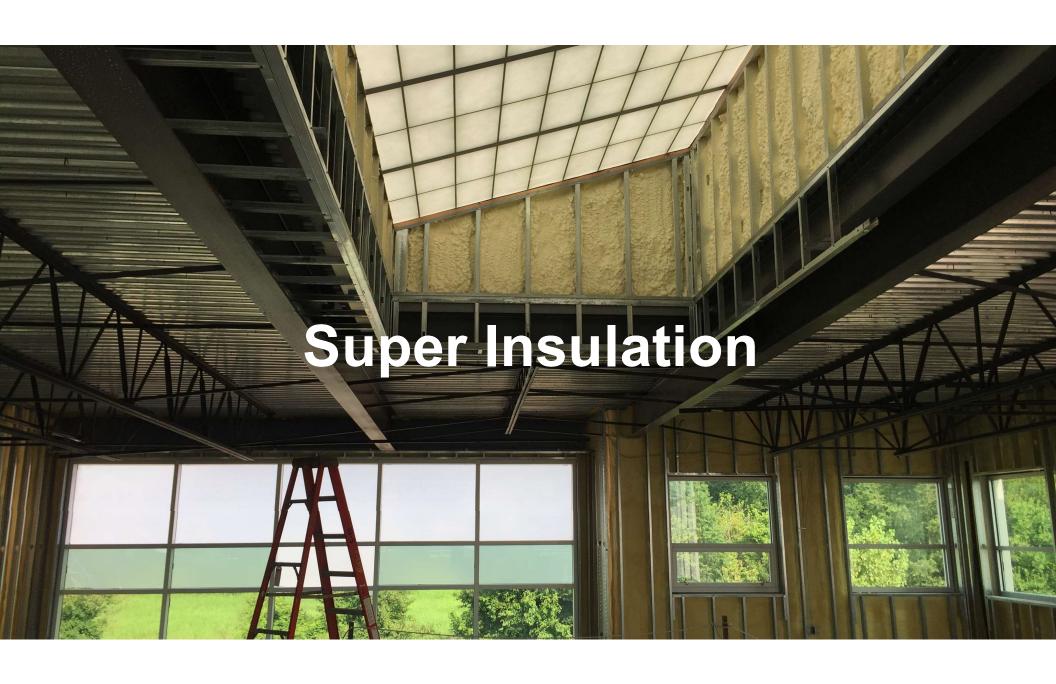
# Goals

# Mainstream 'NZE' Buildings

- Cost Premium of NZE < 15%</li>
- PACE Financing of NZE Premium
- Energy Savings > PACE Assessment > HQ1
- Demand Savings > 2X HQ1 (50kW vs 100kW)

### **Main Features**

- Super Insulation
- LED Lighting & Shade Controls
- Intelligent ERV/DOA
- Super GEO HVAC System
- Solar Canopy











## NZE Normally for Building Only ... Melink Including EV Chargers

### **Construction Cost**

Avg Office Bldg per Code \$170/sf
Super-Insulation \$ 8/sf
LED Dim & Shade Control \$ 2/sf
Intelligent ERV/DOA \$ 2/sf
Super Geo HVAC (10% ITC) \$ 7/sf
Solar PV (roof + 30% ITC\*) \$ 4/sf

### **Construction Cost**

- Total Construction Cost \$193/sf
   Total Super-NZE Premium \$ 23/sf
- Total Super-NZE Premium 12%
- Actual NZE Premium(PV,S-Geo) \$ 11/sf
   Actual NZE Premium 7%

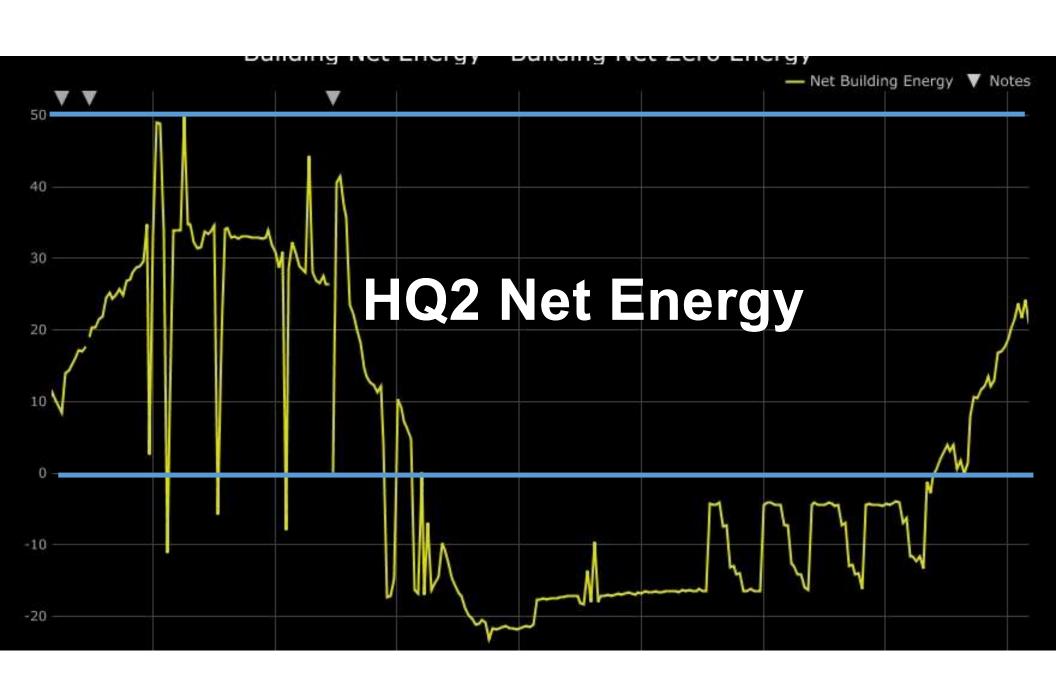
### Design Energy Savings

- Trace Energy Model by Motz Engr
  - 54% Improvement ASHRAE 90.1
  - Usage = \$16,013/yr = \$1,334/mo avg
  - 22.0 kBTU/sf/yr = Top 5%

### **Actual Energy Savings**

#### **Duke Energy Bill: May-June**

- \$0.0 Due (\$2.53 Credit)
- 5217 kWh = 62,604 kWh Annualized
- 62,604 kWh = 213,480 kBTU
- 7.1 kBTU/sf/yr = Top 1% (Includes EVs)
- Demand = 44.6 kW (Includes EVs)





duke-energy.com 1.800.544.6900

#### Your Energy Bill

5130 RIVER VALLEY RD MILFORD OH 45150

Bill date Jun 10, 2020 For service May 7 - Jun 8 32 days

Account number 3620-3923-01-0

#### Billing summary

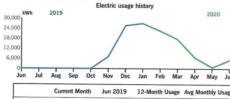
Credit amount, do not pay	\$-2.53
Net Metering Adj	-806.26
Current Electric Charges	803.73
Payment received Jun 01	-232.17
Previous amount due	\$232.17



Thank you for your payment.

Our simplified energy bill is just one of many steps we are taking to improve your experience. Check out our online tutorial page at duke-energy.com/TourTheBill to explore the enhancements and find answers to all your questions.

#### Your usage snapshot



	Current Month	Jun 2019	12-Month Usage	Avg Monthly Usage
Electric (kWh)	5,217	0	113,253	11,325

Mail your payment at least 7 days before the due date or pay instantly at duke-energy.com/billing.

Please return this portion with your payment. Thank you for your business.



Duke Energy Return Mail PO Box 1090 Charlotte, NC 28201-1090

Account number 3620-3923-01-0

No payment is required at this \$0.00

Add here, to help others with a contribution to HeatShare.

MELINK PROPERTIES LLC 5140 RIVER VALLEY RD MILFORD, OH 45150

Duke Energy Payment Processing PO Box 1326 Charlotte, NC 28201-1326



duke-energy.com 1.800.544,6900

page 3 of 3

Account number 3620-3923-01-0

#### Your usage snapshot

Current electric usage for meter	er number 328933657
Billing period May 7 - Jun 8	
kWh Usage	5,217
On Peak	
Actual kW	44.2
Actual kVa	44.6
Power Factor	99.0%



A kilowatt-hour (kWh) is a measure of the energy used by a 1,000-watt appliance in one hour. A 10-watt LED lightbulb would take 100 hours to use 1 kWh.

#### Billing details - Electric

Meter - 328933657		
Rate DS01 - Distribution Service		
Distribution-Customer Chg	\$45.95	
Delivery Charges		
Distribution-Demand Chg		
44.20 KW @ \$5.6718	250.69	
Delivery Riders	196.17	
Generation Riders	0.17	
Generation Charges		
Retail Capacity Rider (RC)	104.51	
Retail Energy Rider (RE)	209.66	
Rider AERR	0.93	
Supplier Cost Reconciliation Rider (SCR)	-4.35	
Total Charges	\$803	.73

Your current rate is Distribution Service (DS01).

For a complete listing of all Ohio rates and riders, visit duke-energy.com/rates

In Case No. 17-1263-EL-SSO, the PUCO approved Duke's Electric Security Plan, which requires Duke to hold autorists to determine the rates for electric generation. As a result of the auctions, Standard Service Office generation, rate a result of the auctions, Standard Service Office generation rates will change effective June 1, 2020, in Case No. 20-0051-EL-RDR, the PUCO approved a change to Rider ESRR (Electric Service Reflashibly Rider).

The charges for the current billing period include the following amounts to meet each of these Ohio requirements: Energy Efficiency = \$22.18. Peak Demand Reduction = \$5.55, and Renewable Energy = \$4.51.

Riders are costs the Public Utilities Commission of Ohio has approved to cover investments in improving the energy infrastructure or other additional expenses.

# Actual Energy Savings Considerations

- Jan Apr Energy Adjustments
  - Construction Completed Jan
  - Solar PV Completed Mar
  - Duke Net Meter Apr
  - Melink BAS Completed Apr

### PACE Financing

- \$1 Million 30 Year Term @ 6.25%
- Increased Assessment = \$87,812/yr
- Increased Assessment = \$7,317/mo
- Energy + Demand Savings > \$7,000/mo
   (Especially with increasing EV Loads)

### PACE Financing

- Finance EE & RE < 30% NC or 25% EB</li>
- Off Balance Sheet Financing
- Tenant Pays Thru Triple Net Lease
- Tenant Gains Energy + Demand Savings
- Tenant Gains Hedge Against Rate Hikes
- Tenant Gains HR + PR Benefits

### **HR & PR Benefits**

- Healthier Employees > Productivity
- Stronger Brand > Recruiting/Retention
- Stronger Brand > Customers & Sales
- Growth & Success > Happier Employees

### Incentives

- PACE Loan = \$1M on \$5M Building
- Solar PV Tax Credit = 30%
- Geothermal Tax Credit = 10%
- 179D Cost Segregation = Accel Deprec
- U.S. Dept of Energy Grant = \$275K



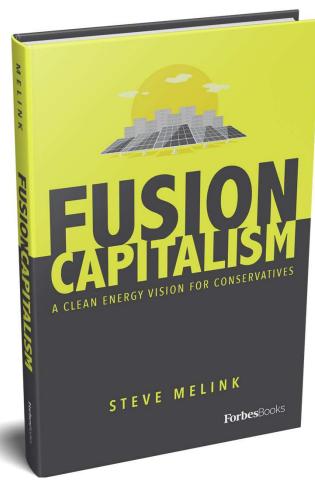
## Eliminate Building & Transportation Carbon Footprint

- Switch from Gas RTUs to Electric HP
- Switch from Gas to Electric Water Heater
- Switch from ICE Cars/Trucks to EVs
- Install Solar PV Roof, Ground, Parking

### Melink Sustainability Leadership

- Mainstream NZE Buildings
- Solar PV & Super Geo
- EV & EV Chargers
- Intelligent ERV/DOA
- Intelligent Shade Control
- Electrify Buildings & Transportation

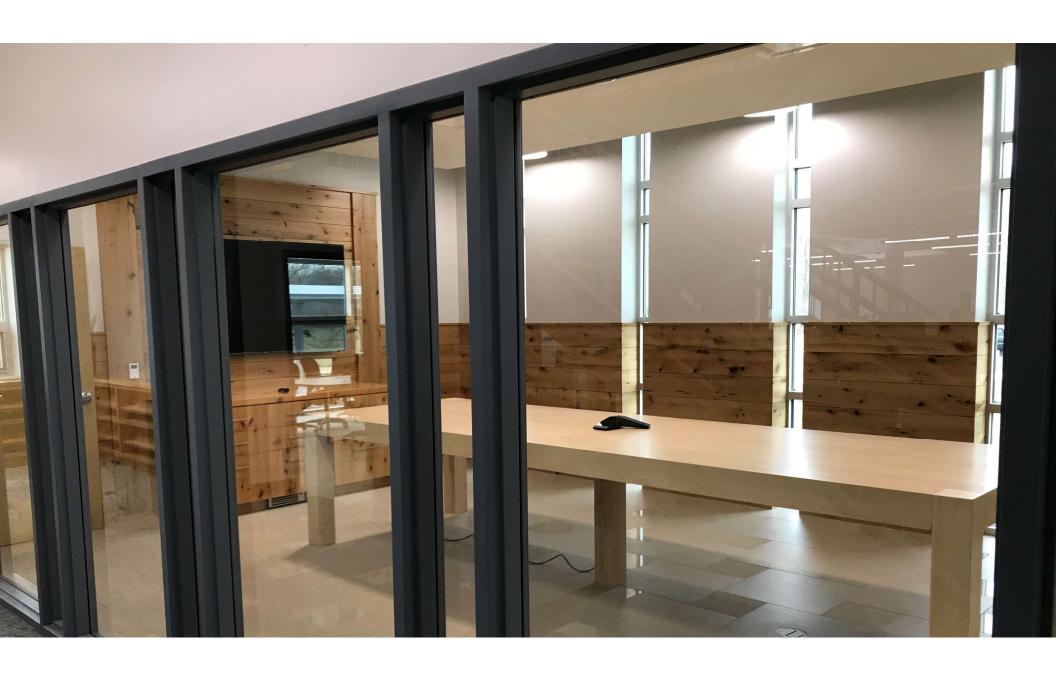
### Upcoming Book









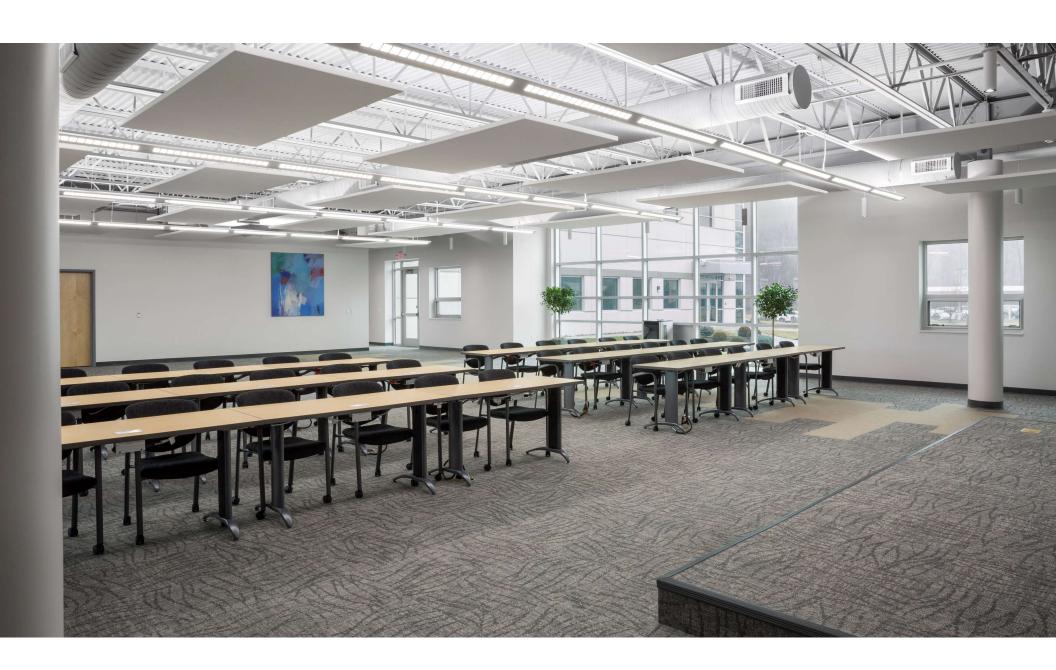






















### "Let's Mainstream NZE Buildings & Decarbonize the World – Together, Starting Today"

### Thank You

Steve Melink CEO, Melink Corporation



# In Partnership with Bricker & Eckler ATTORNEYS AT LAW

#### CDFA-Bricker PACE Webinar Series: Focusing on Sustainability Using PACE

#### **Audience Questions**

### **Questions?**

See all of CDFA's resources online at www.cdfa.net/resources





#### CDFA-Bricker PACE Webinar Series: Focusing on Sustainability Using PACE

#### **Upcoming Events**



CDFA Federal Financing Webinar Series: Federal Recovery Resources from the EPA July 17, 2020

CDFA // BNY Mellon Development Finance Webcast Series: Financing Small Business Recovery After Covid-19

July 21, 2020

Register online at www.cdfa.net



### In Partnership with



#### CDFA-Bricker PACE Webinar Series: Focusing on Sustainability Using PACE

#### **Upcoming Events**



#### **Next in this Series:**

### CDFA—Bricker PACE Webinar Series: Policy and the Future of PACE

August 25, 2020, 11:00 – 1:00 PM Eastern

Register online at www.cdfa.net



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