PACE Financing

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PACE Financing

PACE = "Property Assessed Clean Energy"





Ohio's PACE Law

- Energy SID A special type of financing district created under ORC Ch. 1710 for the purpose of financing:
 - Solar photovoltaic (i.e., roof-top and ground-mounted solar arrays)
 - Solar thermal systems (i.e., solar water heating systems)
 - Geothermal
 - Wind
 - Biomass
 - Gasification
 - Energy efficiency improvements





Ohio's PACE Law

"Energy Efficiency Improvement" is given a special statutory definition:

 "...energy efficiency technologies, products, and activities that reduce or support the reduction of energy consumption, allow for the <u>reduction in demand</u>, or support the production of clean, renewable energy and that are or will be permanently fixed to real property."

"Reduction In Demand" means:

 "...a change in customer behavior or a change in customerowned or operated assets that reduces or has the capability to reduce the demand for electricity as a result of price signals or other incentives."



Special Assessment Authorization

- Like taxes and other forms of governmental exaction, special assessments must be perfected in order to be enforceable against real property.
- Perfection occurs through a variety of procedures:
 - Adoption of special assessment legislation
 - Notice of special assessment legislation to public
 - Notice of special assessment legislation to auditor, assessor, or tax collector
 - Recorded instrument establishing assessment lien
 - All of the above



PACE Financing



PACE Financing: Flexibilities

- PACE bonds/loans are secured by special assessment revenue constituting payments from property owners in installments for a defined period of years.
- PACE can be a tool added to other tools used in a project financing, such as TIF, HTC and Bonds
- PACE could be a project financing tool for any large user of power with deferred maintenance such as:
 - Commercial properties
 - Manufacturers
 - Colleges and universities
 - Hospitals
 - Municipal, county or township properties



PACE and Private Lenders

- A PACE assessment is afforded great respect in the private credit markets.
- Lender views on PACE assessments vary.
 - Delinquent PACE assessments senior to delinquent mortgages
 - Possibility to re-originate a loan at a senior position
 - Higher rents
 - Stability in property value
 - Improvements enhance borrower cash flow or EBITDA
 - Balance sheet improves



PACE and Private Lenders

- Mortgages do not permit creation of senior liens.
- A PACE assessment delinquency would establish a senior lien.
- The mere process of requesting a PACE assessment is probably not a mortgage default.



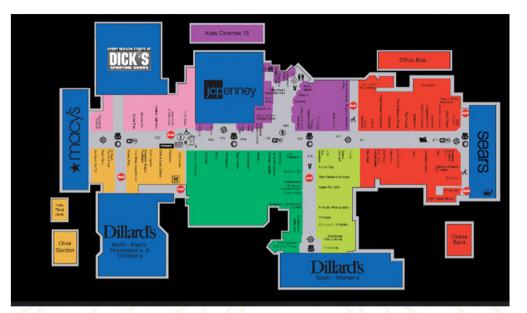
PACE Financing for Commercial Buildings





Case Study: Great Lakes Mall

- **\$3,375,000**
- Port Authority + ESID + City
- Owner of Great Lakes Mall special assessments parcel
- Energy efficient roofing and HVAC systems



- Mall tenants with triple-net leases obligated to pay proportionate share of tax bill and operating expenses
- Transaction was win-win:
 - Mall owner gets cost recovery for capital improvements
 - Mall tenants have lower costs (energy savings vs. tax bill)



Case Study: PNC Tower



- Port Authority + ESID
 + City + County +
 State
 - \$2,785,000 Bonds
 - \$400,000 Loan
 - \$920,000 Loan Loss
 Reserve Grant



Case Study: PNC Tower



- Owner of PNC Tower desired energy upgrades to enhance building
- Energy efficient roofing
- Air controls
- Lighting controls
- Existing tenants with triplenet leases obligated to pay proportionate share of tax bill and operating expenses



Questions?

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Property Assessed Clean Energy (PACE) Financing

A Project Development Primer for Commercial Real Estate Companies

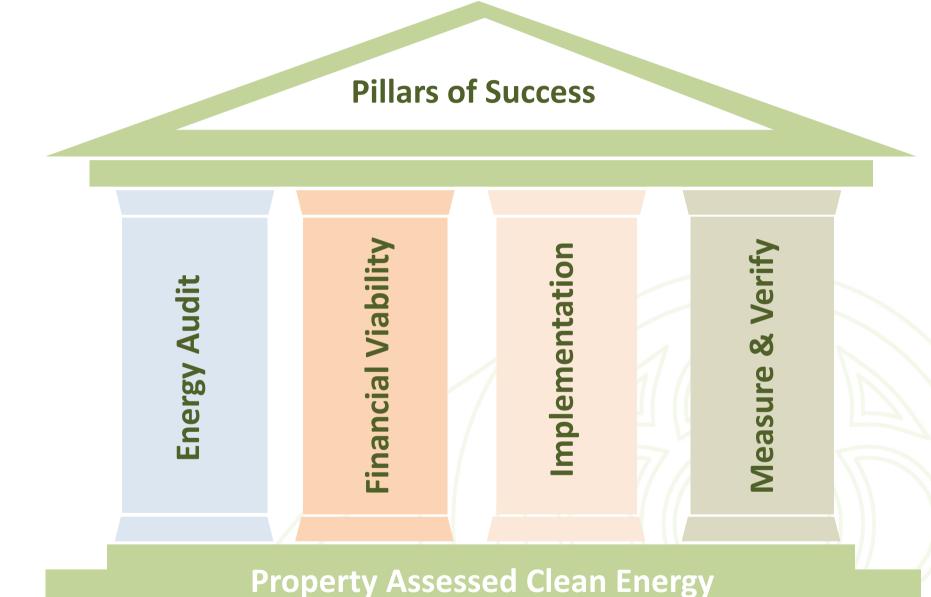
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PACE Project Development – 4 Pillars

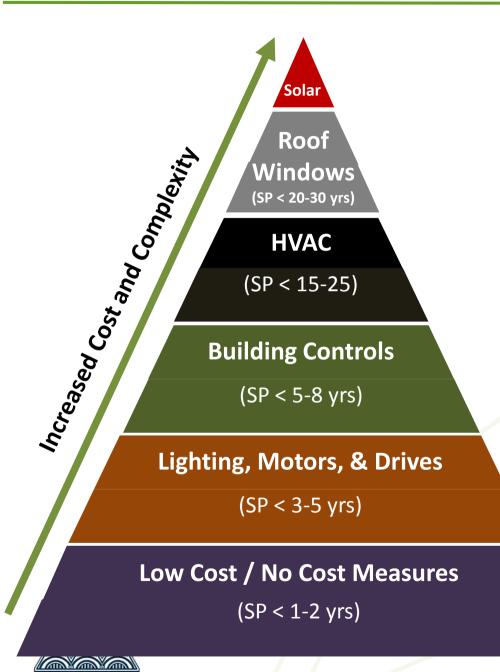




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Energy Audit – PACE Eligible Projects



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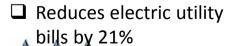
- Objective is identify portfolio energy projects that are eligible for PACE program
- Example PACE projects can be represented by a pyramid of increasing cost & complexity
- The financial power of energy efficiency comes through pairing of energy conservation measures

PACE assessments include

- Utility Benchmarking Analysis
- Electrical & Mechanical System Inventory & Baseline
- Energy Conservation Measure Identification & Analysis
- Master Menu of PACE Compliant Projects

Energy Audit – PACE Project Menu

PROPERTY ASSESSED CLEAN ENERGY (PACE) PROJECT MENU											
PACE Eligible Projects		Project nvestment w/incentive)	Inv	Project vestment o/incentive)		Annual Utility Savings		Annual O&M Savings	Annual Project Savings	Available Utility ncentives	Simple Payback Period
Lighting Retrofit	\$	2,347,837	\$2	,689,994	\$	313,072	\$	108,507	\$ 421,578	\$ 3,620,552	5.6
AHU Upgrades	\$	91,605	\$	92,805	\$	4,957	\$	1,487	\$ 6,445	\$ 1,878	14.2
Chiller Upgrades	\$	133,271	\$	136,271	\$	4,571	\$	1,371	\$ 5,942	\$ (51,748)	22.4
Boiler Upgrades	\$	657,064	\$	763,136	\$	21,096	\$	3,679	\$ 24,775	\$ (298 <i>,</i> 092)	26.5
Dashboard	\$	122,500	\$	177,000	\$	36,123	\$	-	\$ 36,123	\$ 496,964	3.4
Plug Smart Connect	\$	(54,500)									
Building Controls	\$	2,552,276	\$2	,664,476	\$	149,261	\$	188,368	\$ 337,629	$\langle \rangle$	7.6
Motors & VFD's	\$	20,805	\$	21,255	\$	4,022	\$	603	\$ 4,626	\$ 57,156	4.5
DHW Fuel Switch	\$	80,110	\$	80,110	\$	5,225	\$	784	\$ 6,009	\$ 16,072	13.3
Kitchen Controls	\$	11,630	\$	15,790	\$	2,468	\$	370	\$ 2,838	\$	4.1
Valve Retrofit	\$	114,027	\$	124,421	\$	17,804	\$	2,671	\$ 20,475	\$ 1-17	5.6
Refurbish Pumps	\$	13,715	\$	13,715	\$	1,467	\$	220	\$ 1,687	\$ -	8.1
Total	\$	6,090,338	\$6	,778,972	\$	560,068	\$	308,060	\$ 868,127	\$ 3,842,781	7.0



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Reduces natural gas utility bills by 23% Reduces costs (energy \$/SF) from \$1.58 to \$1.37 Reduces EUI (kBTU/SF) from 96 to 74.5

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Financial Viability – Triple Net Lease

Project Metric	Self Funded	PACE 20 Yr				
Owner Investment	(\$1,000,000)	\$0				
Decrease in Utility Costs	\$100,000	\$100,000				
Energy Savings Shared	(\$100,000)	(\$100,000)				
Increase in Property Tax	\$0	(\$85,423)				
RET Recovery	\$0	\$85,423				
EBITA Impact	\$0	\$0				
Year 1 Cash Flow	(\$1,000,000)	\$0				
Year 2-10 Cash Flow	\$0	\$0				
NPV of Cash Flow (8% DR)	(\$1,000,000)	\$0				
Annual Tenant Savings	\$100,000	\$14,577				
 CAM Expense Recovery Rate: 100% Annual Energy Cost Increase: 0% 						

\$1M

10

- CAM Expense Recovery Rate: 100%
- Real Estate Tax Recovery Rate: 100% 10 yr

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- NPV and IRR Time Horizon:
- PACE Compliant Project:
- Simple Project Payback (yrs)

- Objective is to evaluate if energy savings can offset increase in tax payments
- Triple net lease passes through taxes, utility costs, insurance and CAM expenses on pro-rata basis based on square footage
- Real estate tax increases and energy savings passed through directly to tenant
- Benefits to the Owner
 - Requires no upfront cash outlays
 - Improves value of the property
 - Off-book financial transaction
 - Helps with tenant retention

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0%

\$100K

20

Annual Maint, Cost Increase :

PACE Assessment Term (yrs)

Annual Energy Savings:

PACE Financing Interest Rate: 5.75%

Financial Viability – Gross Lease

Project Metric	Self Funded	PACE 20 Yr				
Owner Investment	(\$1,000,000)	\$0				
Decrease in Utility Costs	\$100,000	\$100,000				
Energy Savings Shared	\$0	\$0				
Increase in Property Tax	\$0	(\$85,423)				
RET Recovery	\$0	\$0				
EBITA Impact	\$100,000	\$14,577				
Year 1 Cash Flow	(\$900,000)	\$14,577 \$14,577				
Year 2-10 Cash Flow	\$100,000					
NPV of Cash Flow (8% DR)	(\$254,918)	\$97,813				
Cash on Cash Rate (COCR)	10%	NA				
 CAM Expense Recovery Rate: NA Real Estate Tax Recovery Rate: NA 						

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- Owner responsible for payment of taxes, utility costs, insurance, and common area repair and maintenance expenses
- Recovery of these costs covered through tenant base rent
- Energy savings reductions will flow to owner bottom line
- Real estate tax increases paid directly by building owner
- Benefits to the Owner
 - Requires no upfront cash outlays
 - Improves value of the property
 - **Delivers superior COCR return**
 - Off-book financial transaction

- Real Estate Tax Recovery Rate: NA

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- NPV and IRR Time Horizon: 10 yr \$1M
- PACE Compliant Project:
- Simple Project Payback (yrs)

\$100K

20

PACE Financing Interest Rate: 5.75%

Annual Energy Savings:

PACE Assessment Term (yrs)

Implementation – Arthur Goldner Building

THE PROJECT



Building Details:

- Arthur Goldner Building (PNC)
- 155 E. Broad St, Columbus, OH
- 388K sf, 23 stories, Built 1976

Energy Efficiency Measures

- Building Automation System Retro-Commissioning
- Air Handling Upgrades
- High Efficiency Pumps
- High Efficiency LED Lighting
- Efficient Roof Replacement

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FINANCING



Columbus-Franklin County Finance Authority

Project Financing:

- Project Cost \$2,844,697
- Incentives \$107,667
- Security 15 Year PACE Bond
- Interest Rate 4.97%
- Equity Contribution 5%
- Financed Amount 95%
- Cost Financing \$292,366/yr
- Triple Net Lease Structure
- Completion Est. August 2016

IMPLEMENTATION



Project Development:

- Mechanical Engineering
- Electrical Engineering
- Equipment Procurement
- Project Management
- Final Commissioning
- Measurement & Verification

Project Administration:

- Subcontractor Choice
- Vendor Neutrality

Implementation – Kettering Tower Dayton

THE PROJECT



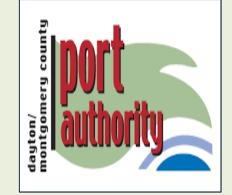
Building Details:

- Tower Partners LLC
- 40 N. Main St, Dayton, OH
- 500K sf, 30 stories, Built 1970
 Energy Efficiency Measures
 - Building Automation System
 - High Efficiency LED Lighting
 - Air Handling VFD Upgrades & Occupancy Control
 - DHW Motors & VFD's
 - Cooling Tower Upgrades

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FINANCING



Project Financing:

- Project Cost \$1,938,722
- Incentives \$297,679
- Security 10 Year PACE Bond
- Interest Rate 5.1%
- Equity Contribution 0%
- Financed Amount 100%
- Cost Financing \$282,000/yr
- Project Savings \$404,502/yr
- Cash Flow \$122,502/Yr
- Completion Est. August 2016

IMPLEMENTATION



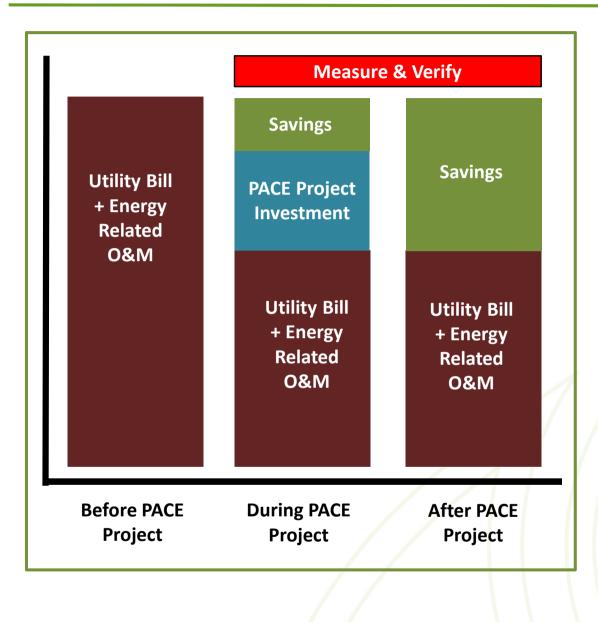
Project Development:

- Mechanical Engineering
- Electrical Engineering
- Equipment Procurement
- Project Management
- Final Commissioning
- Measurement & Verification

Project Administration:

- Subcontractor Choice
- Vendor Neutrality

Measurement & Verification



- Objective is to monitor and verify that the energy savings persist for 2 consecutive years
- Energy Management Collect utility bills and monitor cost, consumption and carbon offset data on monthly basis
- Remote Monitoring Remote monitor space temps, schedules, and set points in key building spaces
- On-Going Commission –
 Identify ongoing maintenance issues with pressure, temperature, humidity, an other sensors





Columbus Region Energy Fund

Columbus-Franklin County Finance Authority

Jean Carter Ryan President

Columbus-Franklin County Finance Authority







Financing Features:
Transaction size \$200,000 to \$5,000,000
Up to 100% financing of project costs
Fixed rates up to 15 years
Energy usage reduction should range from 15%/20% (need energy audit)
Energy savings pay for the investment





Eligible Projects:Office BuildingsK-12, UniversityRetailGovernmentManufacturingNon-profitsHealthcareGovernment



Eligible Improvements: DEnergy efficiency retrofits to existing buildings including:

≻Lighting

Energy management systems and controls
High efficiency HVAC





Eligible Improvements:

□ Water conservation or reduced flow

Energy projects and distribution technologies including:

- Waste energy recovery, power generation, absorption chillers, process reviews
- Fuel cells
- **Renewable power generation**





Territory includes 11 Counties in Central Ohio

Franklin, Union, Logan, Delaware, Marion, Monroe, Knox, Madison, Pickaway, Licking, Fairfield

Can go statewide





Energy Loan Process

- Submit application with 3 years of business financials, current year budget, ASHRAE II audit.
- □ Arrange site visit & facility walkthrough.
- Determine needed improvements, cost estimates & energy savings.





Energy Loan Process

Finance Authority prepares term sheet w/terms & conditions of proposed financing

Once term sheet is executed

- > document prep begins;
- Finance Authority approvals
- special assessment work w/city to get necessary approvals
- **Closing**





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Columbus-Franklin County Finance Authority



Questions?



Thank you!

Presenters will remain for additional questions and conversation.

