DC PACE: Financing Energy, Water, and Infrastructure Upgrades



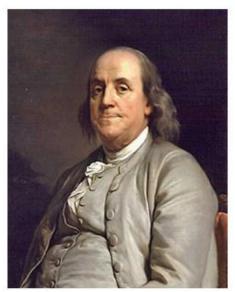
PACE: A New Use for an Old Concept



DC PACE is the District's only clean energy financing program for building upgrades.



<u>**Urban Ingenuity**</u> is the DC PACE program administrator, under contract to DOEE



Philadelphia first used this mechanism for an opt-In Fire District in 1736

About Property Assessed Clean Energy

- Zero Dollars Out-of-Pocket: PACE provides property owners with up to 100% financing for energy and water upgrades at long (15 - 20 year) terms
- **NOI Positive**: Owners realize savings immediately, and use those savings to pay back the cost of the measures through a special assessment that is placed on the property
- Off-Balance Sheet: Extend the capital budget and finance comprehensive projects with potentially off-balance sheet financing – PACE is not conventional debt

What projects can be financed?





Office

Institutional

Properties

- Most commercial properties in the District of Columbia (many MD counties too)
- Both for profit and tax-exempt properties are eligible
- Stand alone / part of larger capital stack
- Must be current on taxes
- Not owned by govt. (but groundlease may be okay)

DCPACE





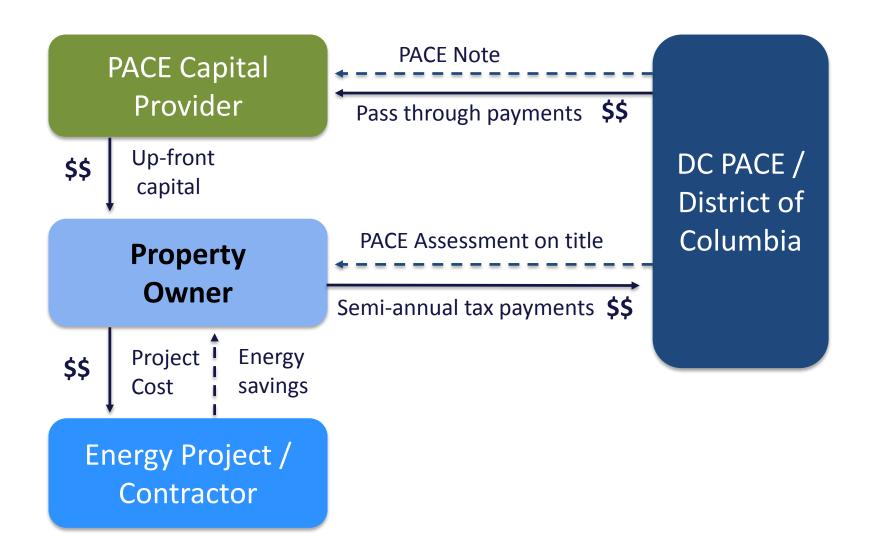
Multifamily

Industrial

Measures:

- Almost anything tied to an energy or water saving
- Large multi-measure retrofits
- Single-measure like solar panels, boiler replacements, etc.
- Clean energy improvements
- Energy efficiency upgrades (HVAC, lighting, envelope, controls, etc.)
- Water conservation measures
- Rehab or new construction

How it works: DC PACE transaction structure





How PACE Works: Case Study

Customer: Downtown office building with energy-conscious anchor tenant

- High annual energy spend
- Building constructed in 1980s, due for capital upgrades

Challenge: Finance large retrofit project without adding debt

Project: EE, water conservation measures, roof replacement



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Note: Project financials have been simplified for illustrative purposes.

How PACE Works: Sizing the Financing

ECMS	Cost		
Lighting	\$150,000	Annual Savings	
Water conservation	\$25,000	Energy	\$100,000
HVAC improvements	\$775,000	Water	\$10,000
Roof rehab	\$550,000	0&M	\$60,000
Building controls	\$100,000	Total	\$170,000
Total	\$1,600,000		



Savings can offset annual payments up to \$170,000
<u>That finances up to \$1,950,000 (20 year term)</u>

How PACE Works: Project Cash Flow

Project Basics

- PACE Eligibility: Up to \$1,950,000
- Actual Project Size: \$1,600,000
- Annual PACE Payments: \$140,000
- Improved building performance, lower operating costs, and improved NOI for owner
- PACE includes cost of structural improvements, key infrastructure upgrades with no out-of-pocket cost

Annual Cash Flow				
Utility Savings	\$110,000			
O&M Savings	\$60,000			
Total Savings	\$170,000			
PACE Payments	-\$140,000			
Net Cash Flow	\$30,000			
\$600K net cashflow over 20 years				

Note: Project financials have been simplified for illustrative purposes.

How PACE Works: Economic Case

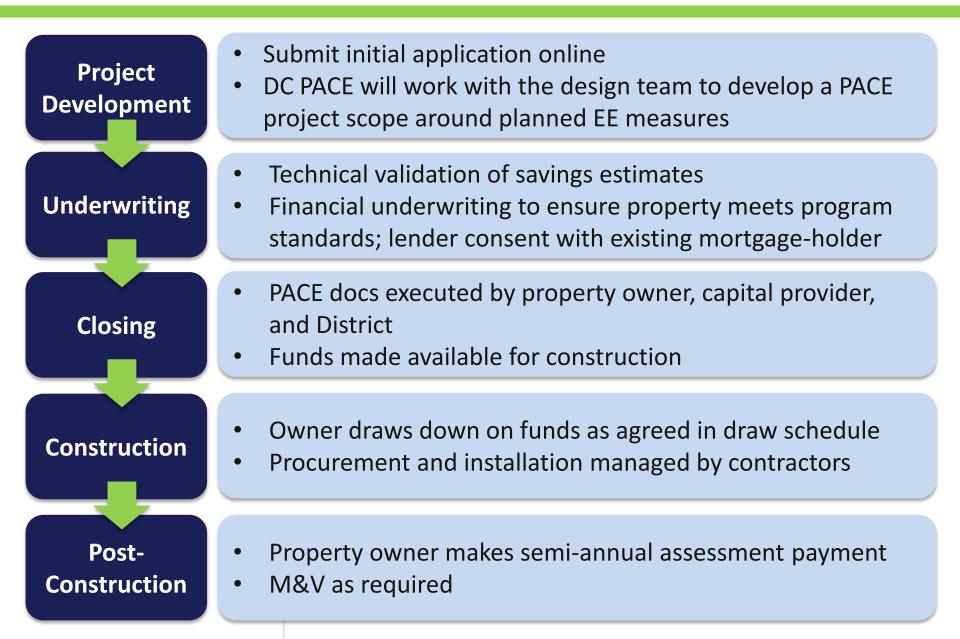
	Self-Funded	PACE
Investment by Property Owner	\$1,600,000	\$0.00
Annual Utility Savings	\$170,000	\$170,000
Annual PACE Payment	\$0.00	\$(140,000)
Net Benefit Year 1	\$(1,430,000)	\$30,000
Annual Net Benefit Years 2-20	\$170,000	\$30,000
5-year NPV of Cash Flows (@ 6% discount rate)	\$ <mark>(793,000)</mark>	\$136,000
10-year NPV of Cash Flows (@ 6% discount rate)	\$(258,000)	\$221,000
5-year IRR	-18%	Infinite
10-year IRR	1%	Infinite

PACE increases NOI & property value with Zero dollars out-of- pocket for the owner

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DC PACE Process



Thanks!

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