

# **Bonds for Energy Efficiency Retrofits**

Metropolitan Washington Council of Governments

Innovative Financing Tools for Energy Efficient Buildings

July 30, 2012

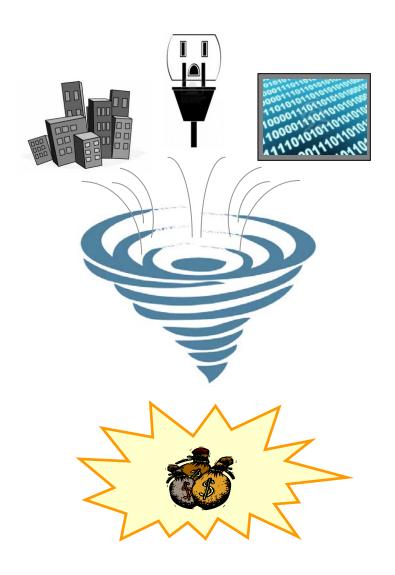
Together we'll go far



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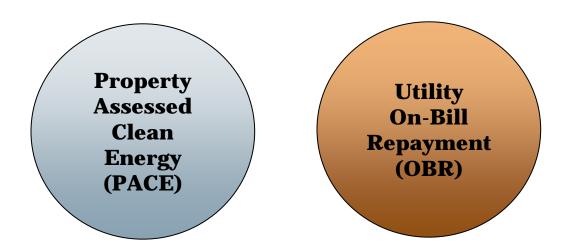
### The Energy Efficiency Retrofit Financing Opportunity



- What is this opportunity?
  - Energy related property retrofits that save more than they cost
- What's the size of the opportunity?
  - \$279 billion could be invested to yield \$1 trillion over 10 years<sup>1</sup>
- What factors are driving it?
  - Aging building stock ripe for retrofit
  - Renewed energy awareness
  - Information technology
- Why will the financing of this be new?
  - Traditional financing does not align well with the energy savings

1. DB Climate Change Advisors, United States Building Energy Efficiency Retrofits: Market Sizing and Financing Models (2012), 7.

## New Bond Financing Mechanisms for Energy Efficiency Retrofits



- The energy efficiency retrofit opportunity is too large for bank balance sheets and will require capital market bonding
- The opportunity may also be too large for a single mechanism, and we should expect to see more than one ultimately come to bond market fruition
- State and local governments will play a role in each of these mechanisms

### **Property Assessed Clean Energy (PACE)**

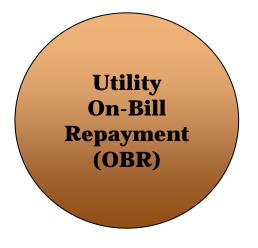


C	Characteristics	
State Law Enabled:	Yes	
Repayment Mechanism:	Property Tax Bill	
Security:	Tax Lien on Property	
Primary Remedy:	Foreclosure (senior status)	
100% Financing:	Yes	
Split Incentive Friendly:	Yes	
Financing Term:	Up to 20 years	
Tied to Property:	Yes	
Municipal Role:	Assessment district taxing mechanism	

### **Challenges:**

- Federal Housing Finance Agency (FHFA) objection to Residential PACE
- Right of consent on Commercial PACE likely renders the "Owner-Arranged" model as the most viable program structure
- "Owner-Arranged" Commercial PACE may have a slower evolution towards capital market access than what was expected for Residential PACE
- Demand for Commercial PACE financing amongst property owners is not fully proven

### **Utility On-Bill Repayment (OBR)**

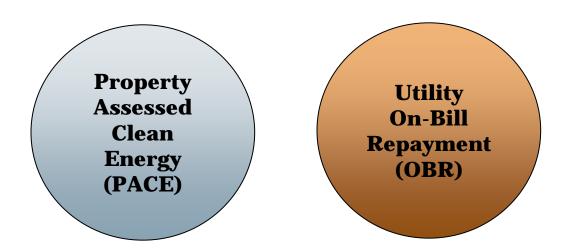


Characteristics		
State Law Enabled:	Yes (in many cases)	
Repayment Mechanism:	Utility Bill	
Security:	Unsecured	
Primary Remedy:	Utility shutoff	
00% Financing:	Yes	
plit Incentive Friendly:	Yes	
inancing Term:	10+ years	
lied to Property:	Yes (via utility meter)	
Municipal Role:	Contributed resources	

### **Challenges:**

- Because of its unsecured nature, the capital markets may initially characterize OBR as being akin to credit card receivables
  - Challenge #1: Financing Rate Gap
  - Challenge #2: Financing Term
- Creating a capital market financing vehicle that overcomes these challenges may require a meaningful degree of contributed resources (i.e., capital that is not looking for a market return)
- OBR with respect to commercial properties has its own unique challenges

### New Bond Financing Mechanisms for Energy Efficiency Retrofits



- Perhaps each of these two mechanisms finds a sweet spot along the retrofit spectrum
  - PACE: Commercial properties
  - OBR: Both single-family & multi-family residential
- Over the near term, we expect to see more innovation and advancement with the OBR mechanism
  - Residential will scale more quickly
  - Incorporating municipal contributed resources is innovative

### New Municipal Entities for New Financing Mechanisms

■ The municipal role in establishing these new financing mechanisms is being affirmed by the creation of new government entities dedicated to participating in the energy efficiency retrofit financing opportunity

- Chicago Infrastructure Trust
- Connecticut Clean Energy Finance & Investment Authority (CEFIA)
- Delaware Sustainable Energy Utility
- Florida PACE Funding Agency

- New York State Energy Research & Development Authority (NYSERDA)
- New York City Energy Efficiency Corporation (NYCEEC)
- Marin Energy Authority (MEA)

 Municipalities view this effort as being as much about job creation and fostering energy independence than climate change