

On-Bill Financing in the United States

Presentation to IEA: 15 March 2012

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Energy Efficiency Financing Trends in the United States

Property Assessed Clean Energy (PACE)

- Very popular 2 years ago
- Many states have enabled PACE legislation
- Legal complexities have stalled progress for residential PACE

On-bill Financing (OBF)

- Rapidly increasing in popularity
- Achieving increased market acceptance
- High potential for scalability, several states engaging secondary markets



Property Assessed Clean Energy (PACE)

Enables local governments provide capital to fund energy efficiency projects which are repaid through an assessment on the customer's property taxes.

Benefits

- Enhances potential for large-scale retrofit projects.
- Repayment transfers on sale of property
- Potential for scalability

Barriers

- Significant structural and legal hurdles
- Residential (shut down by regulators)
 - Debt seniority
- Commercial
 - Consent vs. Non-consent



On-bill Financing

Allows utility customers to invest in energy efficiency improvements and repay the investment through an additional charge on their utility bill.

- Structured in numerous ways
 - Loan
 - Tariff
 - Service Agreement
- Serves an array of markets
 - Residential
 - Owner-occupied
 - Rental
 - Commercial and Industrial
 - Small business





OBF: Benefits and Barriers

Benefits

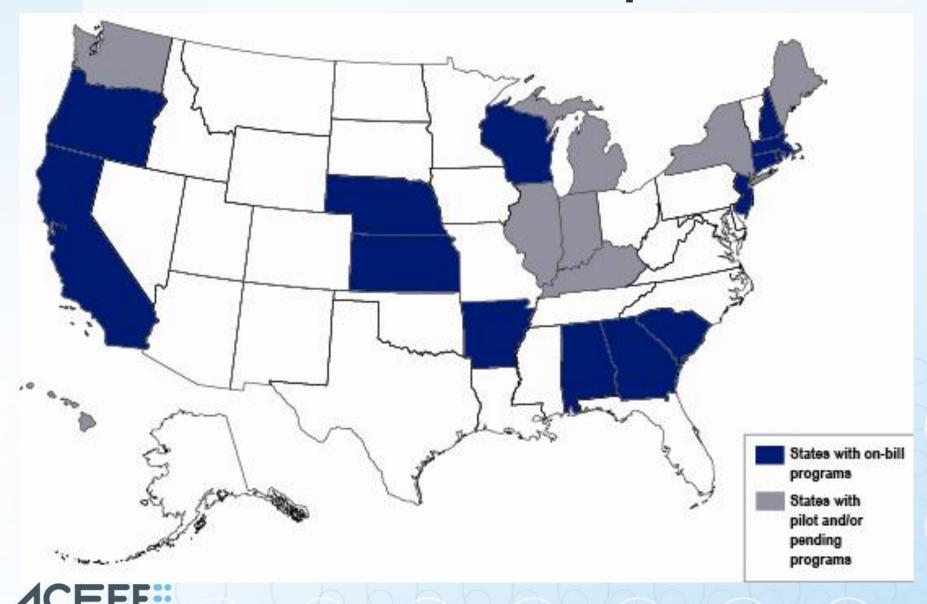
- Reduces first-cost barriers for customers
- Potential for bill neutrality
- Leverages existing billing relationship between consumers and utilities
- Financing can be tied to a property so that debt transfers across owners/tenants.
- Bill payment history can be used to enhance underwriting.
- Disconnection of utility serves a credit enhancement for financiers
- Versatility

Barriers

- Utilities often wary of acting as lending institutions
- May require a redesign of utilities' billing systems
- Equity consideration
- Multiple fuel savings
- Legal considerations for handling transfer of property



Current On-bill Landscape



OBF: Financial Product Structure

Туре	Tariff-based Financing	Loan-based Financing			
Transferability	Yes financing is assigned to the meter. This has the potential to overcome the renter-landlord split incentive.	No financing is assigned to an individual and is non-transferrable. Some exceptions.			
Debt Classification	Not necessarily classified as debt.	Classified as debt, which may limit the ability of some states to use this type of financing due to consumer financing laws.			
Regulatory Approval	Required	Not required.			
Financing Term	Longer financing term, making higher-cost measures more cost-effective	Shorter financing term, making higher-cost measures less cost-effective.			



OBF: Current Sources of Capital

- Utility
 - Ratepayer Funds
 - Shareholder Funds
- Public
 - Grants (Federal, State, Local) e.g. Stimulus
 - Public Loan Funds
 - Bond Issues
 - Revenue from Cap and Trade Programs
- Private
 - Community Development Financial Institutions
 - Local Banks & Credit Unions
 - Large Commercial Banks & Capital Markets



OBF: Adoption Drivers

Customer

- Creative marketing
- Bill neutrality
- Free energy audit
- No money down
- Low interest rates
- Rebates & other incentives

Utility

- EnergyEfficiencyResourceStandards
- Reduction of administrative burden
- Demonstrated costeffectiveness

Third-party lenders

- Low default rates
- Loan-loss reserves
- Loan guarantees



OBF: Selected Program Statistics for Cooperatives

Program	State	Start Date	End Date	Program Goals	Available Capital	Rato	Total Program Participants	Value of Financing
Rural Energy Savings Program Pilot	SC	2011	2011	100 homes	\$1.5-2 million	n/a	100 loans	\$1.5 million
Kansas How\$mart	KS	Pilot: 2007 Full: 2008	Ongoing	200 projects per year	\$1 million- \$1.2 million a year	1.3%	627 projects	\$3.6 million



OBF: Selected Program Statistics for Investor-Owned Utilities

Program	State	Start Date	End Date	Program Goals	Available Capital	Participation Rate	Total Program Participants	Value of Financing	
Clean Energy Works	OR	Pilot: 2009 Full: 2010	Ongoing	Remodel 6000 homes for energy efficiency by end of 2013.	MIIION 2012: \$24 million \$1%		599 loans as of mid-2011 for pilot and full program	\$7.8 million	
CL&P: Small Business Energy Advantage	СТ	2003	Ongoing	Unspecified	\$30 million	1%	6,685 loans since 2005	\$17.3 million	
UI: Small Business Energy Advantiage	СТ	2000	Ongoing	348 projects in 2012	\$7.5 million	1.5%	3903 loans	\$4.1 million	
Small Business and Residential On-bill Progams		1992	Ongoing	Raise \$55 million for loans for 2012	\$30-40 million energy efficiency funds, also building relationships with third party lenders	(for the past 3 years)	16,000 loans in the past 3 years	Approximately \$30 million over the last 3 years	



OBF: Selected Program Statistics for Municipal Utilities

Program	State	Start Date	End Date	Program Goals	Available Capital	Participation Rate	Total Program Participants	Value of Financing
Electric Cities of Georgia	GA	Late 2010	Ongoing	To utilize \$1.1 million by June 30, 2012	\$1.1 million	< 1%	119 loans	\$530,000 with additional \$350,000 approved



OBF: Considerations for Scaling

- Quantify cost of operating loan programs & subsidizing finance charges.
- Weigh importance of bill neutrality.
- Collect data on asset class performance.



Questions?

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