

Transformational Changes to Affordable Housing

EPA Webinar for Local Governments on Energy Efficiency

April 21, 2009



A New Foundation for Sustainability

- New Focus on Existing Housing
- New Pathways to Green
- New Emphasis on "Community Based" Strategies
- Linkage to Climate Change







Programs



Housing Market and Community Stabilization

- Neighborhood Stabilization Program
 - \$2 billion Competitive Funding
 - Energy Factors
 - Partnerships
- FHA Energy Efficiency Mortgage
 - Limit Increases
- Tax Credit Assistance Program
 - Competitive grants to Tax Credit projects
- Grants in Lieu of LIHTC



Energy Tax Incentives

- Qualified Energy Conservation Bonds
 - Limit Increase
 - Green Communities Programs
- Tax Credit Caps for Energy Efficiency and Renewable Systems
 - 30% of system costs (Renewable)
 - \$1,500 on qualified measures
- Elimination of Basis Adjustment for Properties Receiving Subsidized Energy Financing



Affordable Housing

- PHA Capital Fund
 - \$1 billion Competition
 - Energy Retrofit and other priorities
- Assisted Housing Stability and Energy and Green Retrofit
 - \$250 million (Loans and Grants)



Low Income Energy Efficiency

- DOE Weatherization Assistance Program
 - \$ 5 billion
- Income Eligibility 200% of poverty rate
- Funding Levels -
 - Up to \$6,500/unit (Energy Measures)
 - Up to 20% on training and TA
- Implementation -
 - State Agency/ Local Agency Providers



New Community Foundations

- DOE Energy Efficiency Block Grant
 - \$3.2 billion
- Eligible Activities
 - 14 activity categories
- Energy Efficiency Conservation
 Strategy
 - Multi sector; Staged Disbursement;
 \$250,000 for strategy







Resources



Energy Efficient Green Building

- Standards and Guides:
 - ENERGY STAR Builder Options Packages
 - Enterprise Green Communities www.greencommunitiesonline.org
 - Build It Green www.builditgreen.org
 - Climate Change ?





Measures Anyone?

Multifamily Rehabilitation

(in addition to measures for Existing Multifamily Housing)

Measure	Comment	Annual Savings	Simple Payback (Years)
Lighting			
 T-8 or T5 lamps with electronic ballasts 	Electronic Ballasts use 30% less energy,	\$10-\$45	1.5 - 7
 Metal Halide, High and Low Pressure Sodium Exterior Lamps 	provide better light quality, run cooler and last longer	\$50	1.4 - 2.8
Lighting Control Systems: Occupancy Sensors, Time clock, Photocell	Required for new construction where inefficient lighting is used	\$12	3.0-4.7
Domestic Hot Water			
High Efficiency Water Heating System	Gas 40 Gal = 0.61 Electric 40 Gal = 0.93 Gas 60 Gal = 0.57 Electric 50 Gal = 0.92 Gas 80 Gal = 0.53 Electric 80 Gal = 0.89	\$30	13
HVAC			
Heating Systems	For Cold Climates: ENERGY STAR qualified gas furnace (90 AFUE); OR ENERGY STAR qualified heat pump; OR ENERGY STAR qualified boiler (85 AFUE); OR ENERGY STAR qualified oil furnace (85 AFUE)		
Air Conditioning Systems	For Hot Climates: ENERGY STAR qualified A/C (14 SEER / 11.5 EER); ENERGY STAR qualified heat pump (14 SEER / 11.5 EER / 8.2 HSPF)	\$18-\$20	8.0 -10
 Seal Duct System (located outside the conditioned space) 	- Limit CFM duct leakage to 12% or less of the square footage served by the system (e.g., 1,000 Sq. ft. unit × 12% = 120 CFM allowable leakage) - Insulate ducts to a minimum of R-6.	5%-20%	1.0-3.0
Additional Appliances			
ENERGY STAR Dish Washers		\$15	< 1
Shell Sealing			
□ Insulation	Add insulation where needed and feasible to levels prescribed by IECC	\$6-\$8	18-20
ENERGY STAR Windows	Savings vary depending on area heating and cooling loads	\$125-\$360	5.0-7.0



Energy Rehab Advisor

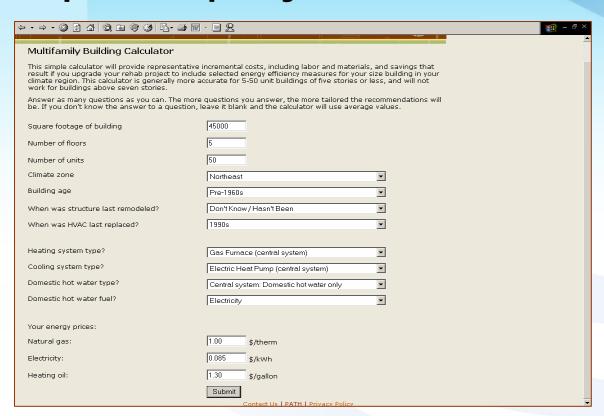


www.rehabadvisor.net



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Input: Property Characteristics

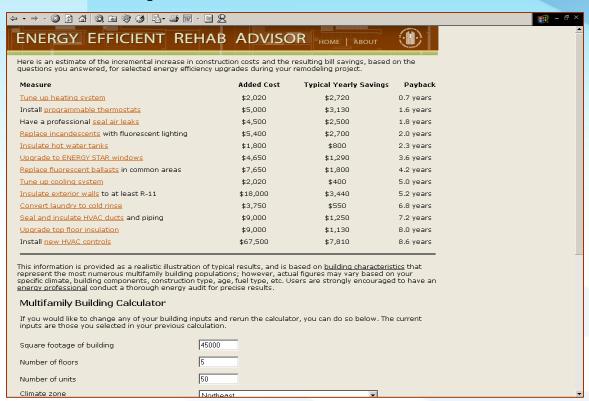


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Output: List of Measures



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Energy Efficient Green Building

- Financing Tools & Initiatives:
 - Program Preferences and Threshold Requirements (LIHTC, HOME...)
 - FHA Mortgage Programs/ENERGY STAR Mtg
 - Energy Performance Contracting (PHAs, Local Govt)
 - Emerging Local Government Models (AB 811)
- Leveraging:
 - Utility Programs (Local Government Partnerships, Incentives, Low Income)

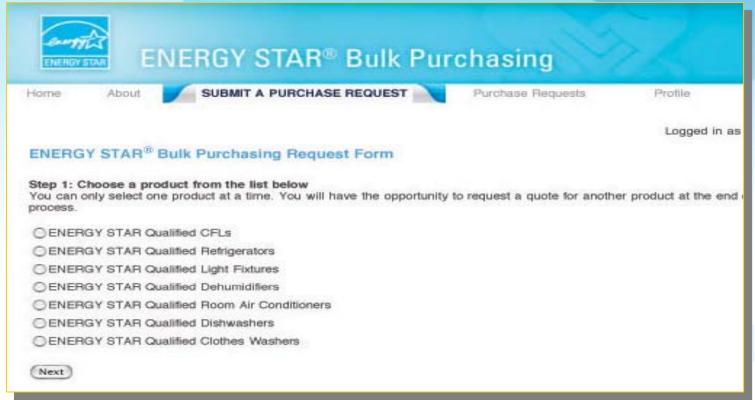


Energy Efficient Green Building

- Procurement:
 - Energy Star Purchasing: www.quantityquotes.net
 - Specifications:
 - (1) Proper Installation per Mfg specifications
 - (2) Inspection
 - (3) Testing and Verification
- Contractors:
 - Licensed and Certified
 - ENERGY STAR Home Performance BPI Certified



ENERGY STAR Bulk Purchasing



www.quantityquotes.net



WEB SITE RECAP

- HUD Recover Act: www.hud.gov/recovery
- Weatherization: www.waptac.org
- Energy Efficiency Block Grant: www.eecbg.energy.gov





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