



HUD'S ENERGY ACTION PLAN IMPLEMENTATION PLAN

FISCAL YEARS 2007-2008

**Prepared By:
ENERGY TASK FORCE
Office of Policy Development and Research (Co-Chair)
Office of Community Planning and Development (Co-Chair)
Office of Public and Indian Housing
Office of Housing
Office of Lead Hazard Control and Healthy Housing
Office of Field Policy and Management**

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	Actions Reported to Congress	Proposed Performance Measure	Proposed Target	Proposed Actions
	Department-Wide			
B1.09 m1.1	Provide incentives through competitive grant programs	No. of grant programs awarding points for energy efficiency through SuperNOFA or other competitive grant programs.	10 programs	<ol style="list-style-type: none"> 1. Provide points in SuperNOFA for Housing Counseling grants, HOPWA, Indian Community Development Block Grants Section 202 and 811, Assisted Living Conversion, Lead Hazard Control and Healthy Homes 2. Provide point for HOPE VI awards
B1.09 m1.2	Include performance measures in Annual Performance Plan and Management Plan	No. of HQ and Field Office Management Plans incorporating energy efficiency	1 HQ Management Plan TBD of Field Office Management Plans (Max. 82) 1 Annual Performance Plan 4 PAR Reports	<ol style="list-style-type: none"> 1. Monitor timetable for Management Plan, APP, PAR 2. Provide quarterly PAR reports 3. Incorporate energy performance measures in revised FY 07 and FY 08 Mgt Plans
B1.09 m1.3	Promote Energy Star products and standards through the Partnerships for Home Energy Efficiency (PHEE)	See CPD m2-1 See PIH m3.1, 3.2, 3.5 See FHA m4.1, m5.1, m5.3 See PD&R m.8	See CPD m2.1 See PIH m3.1, 3.2, 3.5 See FHA m4.1, m5.1, m5.3 See PD&R m.8	See CPD m2.1 See PIH m3.1, 3.2, 3.5 See FHA m4.1, m5.1, m5.3 See PD&R m.8
B1.09 m1.4	Provide training or information on energy efficiency	See CPD m2-1, m2.2 See PIH m3.1, 3.2, m3.4 See FHA m4.2, m5.1, m5.3, m5.6 See PD&R m.8	See CPD m2.1, m2.2 See PIH m3.4 See FHA m4.2, m5.1, m5.3, m5.6 See PD&R m.8	See CPD m2.1, m2.2 See PIH m3.4 See FHA m4.2, m5.1, m5.3, m5.6 See PD&R m.8
B1.09 m1.5	Establish residential energy partnerships with cities, counties, states and other local partners	No of local energy partnerships	See FPM m7.1 See PD&R m8.1	See FPM m7.1 See PD&R m8.1
	CPD			
B.1.09 m2-1	Encourage energy efficiency in HOME and CDBG funded new construction and	Number of events promoting ENERGY STAR new construction standards.	75	<u>FY 07</u> 1. Develop training for inclusion in HOME program

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	rehabilitation projects.	Number of grantees adopting Energy Star for new construction or gut rehab	40	<ul style="list-style-type: none"> • Q2 - Define the training material to be developed • Q3-4 - ICF develops, delivers training material • FY 08 Q1- First delivery by field offices <ol style="list-style-type: none"> 2. Continue to hold Energy Star events to implement A/S Patenaude's 4-18-06 memo. 3. Encourage grantees to adopt Energy Star for new construction/gut rehabilitation 4. Facilitate reporting of Energy Star certifications. <p>Add for FY 08</p> <ol style="list-style-type: none"> 1. Explore potential for achieving adoption of Energy Star as guideline for new construction in every state. 2. Explore potential for 1/3 of grantees adopting Energy Star as standard for new construction. 3. Examine IDIS returns as an indicator for setting future targets for certifications.
		Number of HOME or CDBG-funded units certified as Energy Star.	3,200	
B.1.09 m2-2 -	Identify opportunities and assist with feasibility analysis Combined Heat and Power (CHP) in public or assisted housing	Number of feasibility assessments of potential for CHP in housing assisted by HUD programs.	20	<u>FY 07 - Q3</u> <ol style="list-style-type: none"> 1. Oak Ridge National Laboratory to prepare Version 2 of the Feasibility Screening Software and post on ORNL web site .

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				2. Revise “CHP Feasibility Guide #2” to reflect use of Version 2 and post on HUD web site. <u>Qs 3-4</u> 3. Complete feasibility screening on 20 multifamily buildings.
Public and Indian Housing				
B1.09 m3-1	Base appliance and product purchases in public housing on Energy Star standards	Percentage of PHAs incorporating ENERGY STAR in procurement plans	<u>FY07</u> Establish baseline <u>FY08</u> Pct. target based on FY07 baseline.	1. Re-issue revised Energy Star Notice, PIH 2005-25, to reflect Energy Policy Act of 2005 (EPAAct 2005) requiring Energy Star procurements by PHAs unless not cost-effective. 2. Feature Energy Star in Public Housing Energy Conservation Clearinghouse (PHECC) 3. Rewrite 24 CFR 965 to reflect EPAAct 2005 4. Publicize bulk purchasing web site/tool 5. Publicize PD&R-sponsored web training to housing agencies 6. Provide guidance on cost effectiveness in revision of Green Book. 7. Identify state or local funding resources or rebates that may be available. 8. Contractor will survey (sample) PHAs. FY 07 is baseline year. FY 08 targeted to be established based on FY 07 data 9. Conduct 92 Field Office Energy Star promotional events
B1.09 m3-2	Build HOPE VI developments to a high standard of energy efficiency	Number of HOPE VI projects that have adopted Energy Star or propose to adopt Energy Star for new construction or gut rehabilitation	FY 07: 15 FY 08: 15 (HOPE VI projects surveyed)	1. OPHI to survey 15 HOPE VI projects; Contractor to assess survey results, compile cumulative listing of HOPE VI projects that have certified or propose to adopt Energy Star

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				<ul style="list-style-type: none"> standard for new homes. 2. Promote energy efficiency through HOPE VI grant incentives 3. Future HOPE VI grants to consider minimum IECC standards and 1 point as incentive for Energy Star
B1.09 m3-3	Improve tracking and monitoring of energy efficiency in public housing	Number of current PHA energy audits	<u>FY 07</u> Establish baseline <u>FY 08</u> Establish target based on FY 07 baseline	<ul style="list-style-type: none"> 1. Contractor to survey sample of PHAs to determine number/percentage of PHAs with current energy audits 2. Refine/pilot benchmarking methodology <ul style="list-style-type: none"> ▪ Pilot FY2008 ▪ Conduct feasibility study FY2008 ▪ Convene Federal Advisory Committee (FACA) FY 2009 ▪ Implement utility benchmarking 3. Transition public housing to asset management, to capture utility consumption and costs at the project level in FY 2008.
B1.09 m3-4	Streamline energy performance contracting (EPC) in public housing	Increase in projected energy cost savings over the FY 06 baseline due to Energy Performance Contracts	<u>FY2007</u> 5% increase over FY 06 cost savings <u>FY2008</u> 5% over FY 07 cost savings	<ul style="list-style-type: none"> 1. Promote energy performance contracting (EPC) to smaller housing authorities, through aggregation 2. Support housing authorities to act as own contractors 3. Provide technical support for up to 5 PHAs through contractor 4. Continue capacity building for Field Offices through training and workshops 5. OFO to collect EPC data from field offices updating EPC universe, baseline investment

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				<p>and savings</p> <ol style="list-style-type: none"> 6. Pilot streamlined procurement process for energy performance contracting (EPC) 7. Revise 24 CFR 965 to reflect new EPC guidelines 8. Revise Green Book for EPC to reflect new guidance 9. Secure technical assistance through contract support to expedite EPC processing.
B1.09 m3-5	Promote energy conservation and efficiency within Indian Country			<ol style="list-style-type: none"> 1. Provide 1-point incentive in the Indian Community Development Block Grant Program for applications that address Energy Star goals. 2. Collaborate with Tribally Designated Housing Entities, other federal agencies and entities on partnerships to promote energy conservation and efficiency.

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	FHA Single Family			
B1.09 m4-1	Feature the Energy Efficient Mortgage (and other FHA products) that promotes energy efficiency improvements in single family housing.	Promote energy efficiency improvements in Single Family Housing	Increase consumer awareness of EEMs and other FHA products	<ol style="list-style-type: none"> 1. Update HUD Handbook 4240.4 Rev-2, "Rehabilitation Home Mortgage Insurance," which provides guidance to mortgagees, appraisers, and inspectors on the 203(k) programs, energy efficient mortgages, weatherization, and energy efficient improvements 2. From the Housing Counseling SuperNOFA, report the number of housing counseling agencies receiving the Policy Priority rating point for Energy Star
B1.09 m4-2	Provide training on how FHA single-family programs can be effectively used to promote energy efficiency.	Number of training events with lenders, appraisers, underwriters, and realtors promoting FHA products promoting energy efficiency	32	<ol style="list-style-type: none"> 1. Each HOC to conduct 8 training events or more to include EEM training in events with lenders, appraisers, underwriters, and realtors. 2. Disseminate information which promotes energy efficiency. 3. Continue support for the partnership with HUD, DOE, & EPA Home Energy Efficiency (PHEE).
B1.09 m4-3	Continue improved tracking and evaluate performance of Energy Efficient Mortgages.	Number of Quarterly Reports on EEM production	4	<ol style="list-style-type: none"> 1. Track EEMs through the Computerized Homes Underwriting Management System (CHUMS).

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	FHA Multifamily			
B1.09 m5-1	Promote energy efficiency in assisted multifamily programs by promoting HUD Energy Action Plan to external partners and encourage all mortgage insurance applicants to utilize energy saving devices, including ENERGY STAR construction standards and appliances.	Number of training and industry events promoting HUD Energy Action Plan and energy efficiency strategies and practices.	<u>FY 07-08</u> Minimum of 2 Events per Field Office	1. Increase number of presentations of Energy Action Plan at industry meetings. 2. Promote HUD Energy Action Plan to external partners.
		FY 07 - Number of mortgage applicants encouraged to adopt energy efficient measures. FY 08 - Number of applicants who adopt Energy Star or other energy efficiency measures. (Measure dependent on availability of funding to perform enhancements to Development Application Processing (DAP) to allow for such tracking.)	<u>FY 07-08</u> 100% Of applicants encouraged to adopt Energy Star) <u>FY 08:</u> No. or pct. TBD Of applicants who adopt ENERGY STAR or energy efficiency	3. Encourage all mortgage applicants to utilize energy saving devices including ENERGY STAR construction standards and appliances.
B1.09 m5-2	Continue or initiate HUD-DOE multifamily weatherization partnerships <u>and other strategies for including energy efficiency improvements in existing properties.</u>	Number of Weatherization Pilot Partnership projects facilitating energy efficiency improvements to HUD-assisted or public housing properties that leverage energy funding and services provided by DOE-Weatherization Assistance program funds or other weatherization funds.	TBD (Dependent on DOE and Weatherization Assistance Funds - number will be based upon the availability of funds leveraged from DOE or other sources.)	1. Include DOE-funded weatherization activities in multifamily projects identified by PD&R and DOE in MFH's Energy Status reporting.
		Number of projects approved for a reserve or replacement release, rent increase or adjustment, or other strategy that included energy efficiency improvements. (See DAS Hank Williams 12/6/06 memorandum)	<u>FY 07</u> Use data gathered to establish baseline for number of properties that are approved for energy efficiency improvements. <u>FY 08</u> TBD	

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B1.09 m53	Encourage use of ENERGY STAR new home standards in the design, construction and refinancing of Sec 202 and 811 projects.	Number of approved Section 202 and 811 projects that utilize ENERGY STAR construction standards and ENERGY STAR appliances in newly constructed housing based on FY 07 funding awards.	TBD Based on FY 2007 funding awards	<ol style="list-style-type: none"> 1. Begin accumulating data on Firm Application Requests where competitive scores included points for energy conservation commitment 2. Work with Energy Task Force to establish energy efficiency rating criteria for NOFA 3. Consider encouraging energy audits in conjunction with physical needs assessments during refinancing 4. Work with Energy Task Force to identify possible technical resources for property owners
B1.09 m5-4	Explore possible incentives for energy efficiency through FHA multifamily insurance programs.	Report or strategy that describes underwriting strategies and policies providing incentives for new applications for mortgage insurance or projects seeking refinancing to adopt ENERGY STAR or other appropriate energy efficiency standards for mid- or low-rise multifamily buildings.	1 Report that describes proposed underwriting strategies and policies	<ol style="list-style-type: none"> 1. Convene a MFH task force (with Office of General Counsel <u>and PD&R</u>) to brainstorm incentives to encourage energy conservation (FY 07 – Q3) 2. Participate (attend meetings, review and comment on scope of work and identify properties) in EPA-funded PD&R study of incentives. Complete study in FY 07 or early FY 08
B1.09 m5-5	Develop asset management strategies and guidance for energy efficiency in HUD-subsidized multifamily properties.	Explore guidelines that assist property managers to implement energy efficient building operations and management practices such as (i) adopting Energy Star product purchasing policies; (ii) flexible use of project reserves for investments in lowering energy costs; (iii) conditions for budget adjustments and rent increases to finance energy improvements; and (iv) conditions under which properties can secure low-interest financing from outside lending sources for energy-related improvements.	FY 07: 1 Revised Chapter 12 Handbook 4350. incorporating guidelines for asset management	<ol style="list-style-type: none"> 1. Identify and implement Multifamily Asset Management Task Force to develop strategies for items: (i), (ii), (iii) and (iv) .

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	Manufactured Housing			
B1.09 m-6	Implement energy efficiency recommendations of Manufactured Housing Consensus Committee (MHCC) in manufactured housing	Approximately 180,000 homes to have energy efficiency measures installed.	<p><u>FY 07</u> Implement MHCC-approved standards.</p> <p><u>FY 08</u> MHCC analysis/determination of proposal & HUD's final rule.</p> <p><u>FY 09</u> Implement envelope U-value rule.</p>	<p><u>FY 07</u> Implement previously submitted Manufactured Housing Consensus Committee (MHCC) proposals that are now in rulemaking (including enhanced condensation control).</p> <p><u>FY 08</u> Final rule on MHCC actions for improved appliance efficiency, duct insulation, duct testing and vapor retarder. MHCC review of proposed improved envelope U values.</p> <p><u>FY 09</u> 1. Implement MHCC actions for improved appliance efficiency, duct insulation, duct testing and vapor retarder. If approved by MHCC, implement improved envelope U values.</p>
	Field Policy and Management			
B1.09 m-7	Partner with local energy efficiency groups, HUD program offices	Number of local energy partnerships being facilitated by FPM, with active program area participation.	TBD	To support the energy efficiency objectives and actions of HUD program offices, and where program offices have identified local partners and have committed to a partnership, FPM will assist them in developing local energy partnerships that facilitate implementation of HUD activities to reduce energy consumption.

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	PD&R			
B1.09 m-8	Conduct energy related policy analysis and research (PD&R)	Study completed on multifamily incentives	<u>FY 07</u> Contract for study awarded <u>FY 08</u> 100% (study completed)	<u>FY 07</u> Q2: Issue solicitation for EPA-funded study Q3: Initiate study <u>FY 08</u> Q1: Complete study Q2: Implement recommendations
Phase I completed of PATH Uniform Protocols Initiate 3 pilot sites for Phase II protocols.		<u>FY 07</u> 100% of Phase I study completed 3 Phase II pilot projects completed	<u>FY 07</u> Q1: Complete Phase I protocols Q2: Issue procurement for Phase II protocols and award contract (Jan) Q3: Initiate pilots for Phase II protocols <u>FY 08</u> Q4: Complete pilots	
Energy Star/property valuation study initiated		<u>FY 07</u> TBD <u>FY 08</u> 1 Final Report completed.	<u>FY 07</u> Study initiated. Study will assess impact on property values of Energy Star for new homes. <u>FY 08</u> Complete Study	
Energy efficiency included in PATH Concept Home		100%	FY 07, Q2: Incorporate specifications in concept house	
Conduct webcasts/training broadcasts		4	FY 07: Q2: Advertise training Convene initial webcast (Feb) Q3 Convene webcast #2 (April) Convene webcast #3 (June) Q4: Convene webcast #4 (August) Issue completion certificates FY 08: Q1-4: Continue training, contingent on funding availability.	
Convene national partnerships roundtable		1	FY 07, Q3: Convene roundtable of national partners	
Publish bi-monthly e-newsletters		5	FY 07, Qs 2-4: Publish e-newsletters FY 08, Qs 1-4 Contingent of funding availability.	

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	Healthy Homes and Lead Hazard Control			
B1.09 m-9	Develop computerized assessment tool for integrated energy and environmental retrofits	<p>Number of prototype notebook computer units created and tested.</p> <p>Outcome: Energy Efficiency and Healthy Homes programs will have access to a multi-purpose housing assessment tool combining energy efficiency and healthy homes data.</p>	<p><u>FY 07</u> 6 housing units assessed for energy efficiency and healthy homes standards tests completed</p> <p><u>FY 08</u> 1 final project report, along with computer hardware/software, submitted and finalized.</p>	<p>FY 2007, Q1 -- Statement of Work for Development of Healthy Homes Energy Efficiency Assessment Tool (HEAT) revised and included in HHLHC FY 2007 procurement plan</p> <ul style="list-style-type: none"> 1 revised Statement of Work completed and incorporated into the FY 2007 procurement plan. <p>FY 2007, Q2 -- Contingent upon approval of HUD's FY 2007 budget, procurement plan approved and procurement action distributed for bid.</p> <p>FY 2007, Q3 -- Proposals evaluated and award made.</p> <ul style="list-style-type: none"> Procurement completed. <p>FY 2007, Q3 -- Review of existing assessment tools completed and report submitted to HUD.</p> <ul style="list-style-type: none"> 1 report submitted and reviewed. <p>FY 2007, Q3 -- Prototype HEAT developed and installed on 2 notebook computers.</p> <ul style="list-style-type: none"> 2 functioning notebook computers with prototype software loaded. <p>FY 2007, Q4 -- HEAT pilot test conducted in 6 units in Greensboro, NC.</p> <ul style="list-style-type: none"> 6 housing units assessed for energy efficiency and healthy homes standards tests completed <p>FY 2008, Q1 -- HEAT pilot test conducted in 6 units in Boston, MA.</p> <ul style="list-style-type: none"> Assessment of 6 housing units in

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				<p>Boston, MA</p> <p>FY 2008, Q1 -- Evaluation of the HEAT completed on the basis of data collected in pilot testing in Greensboro, NC and in Boston, MA</p> <ul style="list-style-type: none"> • 1 evaluation delivered describing the outcomes of the pilot tests. <p>FY 2008, Q2 -- Report of HEAT developed, submitted to HUD for approval and finalized on the basis of HUD comments.</p> <ul style="list-style-type: none"> • 1 final project report, along with computer hardware/software, submitted and finalized.