

## Home Performance with ENERGY STAR® Eligible Measures and Accessories-January 2006

**Home Performance with ENERGY STAR® (HPwES)** is designed to transform the way energy efficiency services are delivered to existing 1-4 family homes. To qualify for financing options offered through the Program, the energy efficiency improvements must be installed by a contractor participating in the HPwES Program, must meet the minimum efficiency requirements listed below and, one measure must be a major ENERGY STAR labeled measure (boiler, furnace, etc.).

Primary Heating System <sup>1,2</sup>	Minimum Efficiency Requirements
Furnace – Natural Gas or LP <sup>3</sup>	AFUE 90% (as long as not prohibited by local codes)
Furnace – Fuel Oil <sup>3</sup>	AFUE 84% (below 85% AFUE, and not ENERGY STAR labeled, requires that another major measure have the ENERGY STAR label)
Boiler – Hot Water	AFUE 85%
Boiler – Steam	AFUE 81% (size must be matched to cumulative capacity of connected radiators, per Institute of Boilers & Radiator Mfrs (IBR) standards)
Air Source Heat Pump (electric split systems) <sup>3</sup>	14 SEER / 11.5 EER / 8.5 HSPF
Air Source Heat Pump (gas-fired) <sup>3</sup>	1.2 COP (h) / 1.25 COP (c)
Ground Source Heat Pump <sup>3</sup>	ENERGY STAR Labeled (closed-loop, open-loop, or direct expansion)
Wood/Wood Pellet Stove	EPA phase 2 (wood pellet stoves listed by EPA as exempt from Phase 2)
Duct Sealing	UL 181B Mastic or other permanent sealant; use of duct tape is disallowed
Cooling Equipment	Minimum Efficiency Requirement
Central Air Conditioner (split system) <sup>4</sup>	14 SEER // 11.5 EER
Room Air Conditioner	ENERGY STAR labeled
Water Heater	Minimum Efficiency Requirement
Natural Gas, Propane or Oil	EF .61 (40-gallon stand-alone); EF .78 (instantaneous)
Electric	EF .93
Indirect-Fired Tank	UL Approved
Solar	Solar Rating Certification Corp. Certified
Wood Pre-Heat	Installed to National Plumbing Code
Heat Pump Water Heaters	EF ≥2.0
Building Shell	Minimum Efficiency Requirements
Insulation (attic, wall, floor, band joist, basement, crawl space)	NYS Energy Conservation Code compliant
Air Sealing	Conducted by professional; blower door guided strongly recommended
Replacement Windows or Glazing	ENERGY STAR (NFRC rated U-value of .35 or less) for climate/region
Storm Windows and Storm Doors	No minimum efficiency requirement
Movable Window Insulation	R-3
Exterior Doors	R-4.4
Renewable Electricity Producing Systems	Minimum Efficiency Requirements
Photovoltaic Solar Electric Systems	Refer to <a href="http://www.powernaturally.org/programs/solar/installerpv_all.asp">www.powernaturally.org/programs/solar/installerpv_all.asp</a> for eligible PV installers
Wind Turbines	Refer to <a href="http://www.powernaturally.org/programs/solar/installerpv_all.asp">www.powernaturally.org/programs/solar/installerpv_all.asp</a> for eligible wind installers
Appliances & Lighting	Minimum Efficiency Requirements
Refrigerator, Freezer, Dishwasher, Clothes Washer, Dehumidifier (must be combined with at least 1 major measure installed by the contractor, such as air sealing, insulation, a heating system, or water heater). <sup>5</sup>	ENERGY STAR labeled.
Heat/Energy Recovery Ventilator	No minimum efficiency requirement
Light Fixtures	ENERGY STAR labeled for compact fluorescent, or electronic ballast for fluorescent tubes
Thermostats	ENERGY STAR labeled
Health and Safety Measures	
Smoke Detectors, Radon Detectors, and Carbon Monoxide Detectors	These measures can be either hard wired or battery operated
Ventilation Fans	ENERGY STAR Qualified (must vent to exterior of building shell)
Repairs/upgrades to venting systems and power venting kits	Per code and/or manufacturer specifications, as appropriate
Measures to provide sufficient combustion air and prevent Combustion Appliance Zone (CAZ) depressurization, spillage or inadequate draft	Allowed when BPI-required combustion safety tests indicate problem(s) with CAZ depressurization, draft or spillage, per BPI standards
Gas Oven Replacements <sup>6</sup>	UL Listed Gas Ovens

<sup>1</sup> Defined as the “primary heating system for the space being conditioned”.

<sup>2</sup> Addition/replacement of secondary heating systems are not eligible for Assisted Home Performance

<sup>3</sup> Duct systems for warm air furnaces, heat pumps and central air conditioners should be tested and sealed to reduce leakage.

This will help ensure that the total system will operate efficiently.

<sup>4</sup> Non-eligible measure under Assisted Home Performance.

<sup>5</sup> Maximum Assisted Subsidy for each appliance is: \$500 for refrigerators & freezers; \$400 for clothes washers; \$300 for dishwashers; and \$200 for dehumidifiers.

<sup>6</sup> Assisted incentive of up to \$300 is available only if replacement is required to meet BPI standards.

## **FINANCING OPTIONS**

The New York **Energy \$mart<sup>SM</sup> Loan Fund** and Home Performance with ENERGY STAR Financing are each designed to support Home Performance with ENERGY STAR. Both offer interest rate reductions but specific features and requirements vary. For more information call 1-877-NY-SMART.

## **ADDITIONAL SUPPORT**

Assisted Home Performance with ENERGY STAR offers a 50% work scope incentive of up to \$5,000 for a single family home and \$10,000 for a 2-4 family home. The balance of the cost can be financed through either the Loan Fund or Home Performance with ENERGY STAR Financing. Assisted Home Performance follows the same minimum efficiency requirements and measure eligibility except as noted in the list above. The Assisted Home Performance work scope must be cost-effective with a savings to investment ratio not less than 1.1 for the recommended package of improvements in the Comprehensive Home Assessment.

## **QUALIFIED ACCESSORIES**

- The costs associated with the installation of qualified accessories for Eligible Measures are eligible for incorporation into a reduced interest rate loan offered through the Program. These costs can also be included in the portion of the work scope being subsidized through the Assisted Home Performance Work scope subsidy. Qualified Eligible Measures accessories include: ductwork, grills, diffusers, chimney liners, air cleaners, furnace humidifiers, thermostats, moisture barriers and attic venting. Service contracts and extended warranties are **not eligible for Assisted Work scope subsidies**, but are eligible for incorporation into a reduced interest rate loan offered through the Program.
- Accessory items included in worksopes that involve fuel switching (for example, electric baseboard heating to natural gas furnace) are eligible for incorporation into a reduced interest rate loan offered through the Program, provided the new heating system is installed through the HPwES Program, is an eligible measure and, if installed under Assisted HPwES meets the cost-effectiveness requirement. Examples of these fuel-switching accessories are: gas main extensions, new oil tanks, service laterals, and piping.
- *Services* associated with the eligible improvements (Home Energy Rating, blower door test, Comprehensive Home Assessment or construction management) are eligible for incorporation into a reduced interest rate loan offered through the Program and the Assisted work scope subsidy incentives. A participating Home Performance with ENERGY STAR Contractor must perform services.

The first \$2,000 of costs associated with any combination of the following measures is eligible for incorporation into a reduced interest rate loan offered through the Program. However, these measures are **not eligible Assisted Home Performance work scope subsidies**:

- Asbestos abatement or electrical service upgrade necessary when installing a new heating /cooling unit.
- Upgrade of knob and tube wiring in order to install insulation.
- Radon and lead abatement work.
- The cost of removing an oil tank is when done in connection with a heating system replacement.
- Repairs to the home due to water damage, molds and mildew, ice dams or other symptoms of poor building performance, as long as the cause(s) of building performance-related damage are addressed.
- Measures/Repairs that exceeding the \$2,000 cap, including cosmetic shingle and siding replacements, are eligible for non-subsidized financing through Fannie Mae, in accordance with the guidelines for **Additional Measures**, below.

## **ADDITIONAL MEASURES**

The measures below are available for financing through Fannie Mae at their current interest rate and are not eligible for the interest rate subsidy or work scope incentive through NYSERDA. *To qualify for the loan, 50% of the total improvements to be financed must be eligible energy efficient measures. The remaining 50% of the improvements may not include energy consuming products or equipment, but may include the following:*

- Sunrooms with a southern exposure
- Kitchen and bathroom remodeling
- Siding, roofing and other repairs not covered by subsidy under **Eligible Accessories**, above.

**For further information please call:**

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c/o CSG**

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