

## Home Performance with ENERGY STAR®

### Eligible Measures and Accessories

The Home Performance with ENERGY STAR® (HPwES) Program is designed to transform the delivery of energy efficiency services to Existing 1- to 4- Family Homes. To qualify for low interest financing offered through the Program, the energy efficiency improvements must be installed by a Participating HPwES Contractor, must be cost-effective, and meet the minimum energy efficiency requirements listed below.

		Minimum Efficiency Requirements
<b>1,2</b> <b>Primary Heating System</b>	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 Qualified, 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 Qualified (closed-loop, open-loop, or direct expansion)
	Wood or Solid Fuel Pellet Stove	EPA Phase 2 (Solid fuel pellet stoves are exempt from EPA Phase 2)
	Distribution Replacement or Improvements	Installed in accordance with all applicable state and local codes
	Duct Sealing	UL 181B Mastic or other permanent sealant; use of duct tape is disallowed
	Solar Thermal	OG-300 certification from SRCC. SF 0.5. Warranty: 10 years-collector, 6 years-storage tank, 2 years-controls, 1 year-piping and parts
<b>Cooling Equipment</b>	Central Air Conditioner (split system) <sup>4</sup>	14 SEER // 11 EER
	Room Air Conditioner	ENERGY STAR Qualified
<b>Water Heater</b>	Natural Gas, Propane or Oil	<51 gallon EF.63 / >51 gallon EF.53  Instantaneous: EF .78
	Electric	EF .93
	Indirect-Fired Tank	UL Approved
	Solar	OG-300 certification from SRCC. SF 0.5. Warranty: 10 years- collector, 6 years- storage tank, 2 years- controls, 1 year- piping and parts
	Wood Pre-Heat	Installed to National Plumbing Code
<b>Building Shell</b>	Insulation (attic, wall, floor, band joist, basement, crawl space)	NYS Energy Conservation Code compliant, or to the Program Technical Specifications, or limits of construction
	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
	Replacement Skylights	ENERGY STAR (NFRC rated U-value of .60 or less) for climate/region
	Storm Windows and Storm Doors	No minimum efficiency requirement
	Movable Window Insulation	R-3
	Exterior Doors	R-4.4

## Green Jobs-Green New York Residential Financing

		Minimum Efficiency Requirements
<b>Appliances and Lighting</b>	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>5,6</sup>	ENERGY STAR Qualified
	Heat/Energy Recovery Ventilator	No minimum efficiency requirement
	Light Fixtures	ENERGY STAR Qualified for compact fluorescent, or electronic ballast for fluorescent tubes
	Thermostats	ENERGY STAR Qualified
<b>Health and Safety Measures</b>	Smoke Detectors, Radon Detectors, and Carbon Monoxide Detectors	These measures can be either hard wired or battery operated
	Ventilation Fans (Whole house fans or similar attic exhaust fans are not eligible)	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: \$300 for refrigerators & freezers; \$200 for clothes washers; \$250 for dishwashers; and \$75 for dehumidifiers. Only the base price of the appliance plus applicable tax is eligible—delivery, set-up, warranties or appliance accessories, and any associated taxes on these items are not eligible for incentives.

<sup>6</sup> Assisted incentive available: 50% of the cost- maximum \$300 and only if replacement is required to meet BPI standards.

**Note:** NYSERDA reserves the right to modify the Minimum Efficiency Requirement for any measure during the term of the Home Performance with ENERGY STAR Partnership Agreement.

# Green Jobs-Green New York Residential Financing

## **FINANCING REQUIREMENTS**

The maximum amount eligible for program financing is \$13,000 per property. The work scope must be cost-effective with a Savings to Investment Ratio (SIR) greater than 1.0 for the recommended package of improvements.

## **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 up to \$10,000 for a 2- to 4- Family Home. The balance of the cost can be financed. Assisted Home Performance follows the same minimum efficiency requirements and measure eligibility except as noted in the list above.

## **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 Measure accessories include: grills, diffusers, chimney liners, air cleaners, furnace humidifiers, thermostats, moisture barriers and attic venting.
- Accessory items included in work scopes 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.

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 for 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 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.

**For more information please contact:  
Home Performance with ENERGY STAR  
c/o Conservation Services Group (CSG)  
2 Wall Street  
Albany, New York 12205  
Tel: 518-207-4500  
Fax: 518-207-4550**