



ELIGIBLE MEASURES (For Program fiscal year July 1, 2013 to June 30, 2014)

Home Performance with ENERGY STAR® is designed to transform the way energy efficiency services are delivered to existing 1-4 family homes and low-rise multifamily buildings. To qualify for cash incentives and financing options offered through the Program, the energy efficiency improvements must be installed by a BPI accredited contractor participating in the Program, must meet minimum efficiency requirements listed below. Projects must include at least an air leakage reduction measure. Tier 3 projects must also include one additional eligible measure (heating system, cooling equipment, water heater, or building shell insulation). A combination of measures from the following list may be financed, with the maximum financed amount being \$10,000 and the minimum being \$2,500.

<u>Building Shell</u>		<u>Minimum Requirements</u> ^{6,7}
Insulation (if proposing an upgrade to the following):		NJ State code and efficiency requirement
Attic floor		R-38- final total insulation R-value
Roof deck (may not be combined with attic floor)		R-38
Walls- above grade		R-13
Floors		R-19
Foundation walls, band joists- basement, crawl space		R-10
Air Sealing		Conducted by BPI contractor with pre & post blower door testing
<u>Ducted Distribution System</u>		<u>Minimum Requirements</u> ^{1,5,8}
Duct Sealing.....		UL 181 B Mastic; tape is disallowed, submit pre & post leak testing
Duct Insulation		R-8 supplies in attics, all other R-6 (except ducts inside thermal)
<u>Mechanical Ventilation</u>		<u>Minimum Efficiency Requirements</u> ⁹
Exhaust Ventilation Fans		ENERGY STAR Qualified (must vent to exterior of building shell)
Heat/Energy Recovery Ventilator.....		No minimum efficiency requirement
HVAC integrated with fan control and mechanical damper		Installed with qualifying furnace with ECM motor
Public Gas /Electric Utility	<u>Primary Heating System</u>	
	<u>Minimum Efficiency Requirements</u> ^{2,3}	
	Furnace ¹ – Natural Gas ⁸	AFUE 92.0%
	Boiler ¹ – Hot Water – Natural Gas	AFUE 85.0%
	Boiler ¹ – Steam – Natural Gas.....	AFUE 82.0%
	Air Source Heat Pump (Mini/Central Split System) ⁴	12.0 EER / 14.5 SEER / 8.5 HSPF
	Ground Source Heat Pump ⁴	14.1 EER / 3.3 COP
	<u>Cooling Equipment</u>	
	<u>Minimum Efficiency Requirements</u> ^{2,3,4}	
	Air Conditioner (Mini/Central Split System)	14.5 SEER / 12.0 EER
<u>Water Heater</u>		
<u>Minimum Efficiency Requirements</u> ²		
Tank- Natural Gas	Energy Factor (EF) 0.62 <u>power vent</u> (i.e. positive vent pressure)	
On-Demand- Natural Gas	Energy Factor (EF) 0.82 (instantaneous water heaters)	
Indirect-Fired Tank	Installed with qualifying boiler, at least 30 gal, R-16	
Heat Pump Water Heaters.....	Energy Factor ≥ 2.0	
Oil, Propane, Municipal Electric	<u>Primary Heating System-</u>	
	<u>Minimum Efficiency Requirements</u> ^{2,3}	
	Furnace ¹ – Propane ⁸	AFUE 92.0%
	Furnace ¹ – Oil ^{8,9}	AFUE 85.0%
	Boiler ¹ – Hot Water – Propane ⁸ /Oil ⁸	AFUE 85.0%
	Boiler ¹ – Steam – Propane ⁸ /Oil ⁸	AFUE 82.0%
	Air Source Heat Pump (Mini/Central Split System) ^{4,8}	12.0 EER / 14.5 SEER / 8.5 HSPF
	Ground Source Heat Pump ^{4,8}	14.1 EER / 3.3 COP
	<u>Cooling Equipment</u>	
	<u>Minimum Efficiency Requirements</u> ^{2,3,4}	
Air Conditioner (Mini/Central Split System) ⁸	14.5 SEER / 12.0 EER	
<u>Water Heater</u>		
<u>Minimum Efficiency Requirements</u> ²		
Tank- Propane ⁸	Energy Factor (EF) 0.62 <u>power vent</u> (i.e. positive vent pressure)	
On-Demand- Propane ⁸	Energy Factor (EF) 0.82 (instantaneous water heaters)	
Indirect-Fired Tank	Installed with qualifying boiler, at least 30 gal, R-16	
Heat Pump Water Heaters.....	Energy Factor ≥ 2.0	

¹ Requires BPI Heating Certification

² Requires submittal of [AHRF Certificate](#), [CEE Directory](#), or [ENERGY STAR listing](#) as verification of system efficiency

³ Installed system cooling capacity must be sized within 115% for A/C or 125% for Heat Pump of cooling load calculation following ACCA Manual J procedures

⁴ Refrigerant based systems require BPI AC/Heat Pump Certification and must be served by IOU electric utility

⁵ Requires submittal of pre & post duct pressurization testing for duct work outside the thermal envelope and post system airflow testing

⁶ Requires BPI Envelope Certification and submittal of pre & post blower door testing when required per BPI Standards

⁷ When proposing insulation for enclosed cavities, the installed insulation should meet the listed R-values or at a minimum fill the cavity

⁸ Oil/Propane and Municipal Electric (OPM) served equipment upgrades are eligible until June 30, 2014 or until SEP funds are fully exhausted- check Portal

⁹ Mechanical ventilation must be installed in compliance with ASHRAE 62.2

FINANCING OPTIONS

Home Performance with ENERGY STAR offers a 50% work scope incentive of up to \$5,000. The balance of the cost, up to \$10,000, can be financed at 0% interest rate but specific features and requirements vary. For the purpose of calculating the maximum rebate and financing amounts, the contractor shall use the cost of the project minus any other available incentives such as manufacturer rebates and/or discounts.

QUALIFIED ACCESSORIES

The costs associated with the installation of qualified accessories for Eligible Measures are eligible for incorporation into a 0% interest rate financing offered through the Program. These costs can also be included in the portion of the work scope being incentivized through the Home Performance work scope subsidy.

- **Qualified Eligible Accessories Include:** hydronic distribution parts, advanced boiler controls, ductwork, grills, diffusers, chimney liners, mechanical air cleaners, and programmable thermostats as part of an installation of a qualified central HVAC system. ICAT Rated Energy Star qualified recessed light fixtures as part of an eligible attic floor insulation upgrade. Service contracts and extended warranties are eligible for incorporation into financing offered through the Program.
- Accessory items included in work scopes that involve fuel switching (for example electric baseboard heating to natural gas furnace) are eligible for incorporation into financing offered through the Program, provided the new heating system is installed through the Home Performance with ENERGY STAR Program and is an eligible measure. Examples of these fuel switching accessories are: gas main extensions, service laterals, and piping.
- Services associated with the eligible improvements (Home Energy Audit, blower door test, or permits) are eligible for incorporation into financing offered through the Program and the Home Performance work scope subsidy. An accredited participating Home Performance with ENERGY STAR Contractor must perform these services.

HEALTH & SAFETY MEASURES

The first \$2,000 of costs associated with any combination of the following Health and Safety Measures is eligible for incorporation into the workscope.

- Smoke, Radon, or Carbon Monoxide Detectors
- Repairs/upgrades to combustion venting systems and power venting kits, measures to provide sufficient combustion air and prevent Combustion Appliance Zone (CAZ) depressurization, spillage or inadequate draft
- Asbestos abatement or electrical service upgrade necessary to install the new heating/cooling unit.
- Upgrade of knob and tube wiring in order to install insulation in the area where knob & tube is present only.
- Radon and lead abatement work.
- Vapor barriers - Minimum 6-mil plastic
- Attic ventilation - Passive ventilation only
- Fuel line leak repairs - Permanent repairs, does not include oil tank leak repairs or replacement
- Clothes dryer venting - At least semi-rigid metal, vented to outside, R-7 in unconditioned space
- Exhaust fan venting - Vented to outside, pitched up to outside, R-7 in unconditioned space
- The cost of removing an oil tank is eligible when done in connection with a qualifying 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 being addressed.

SEP (State Energy Program) FUNDING

Incentives for oil, propane, and municipal electric served homes and/or equipment upgrades are limited. Always check the contractor portal on the Clean Energy Program website for the current availability of funds.

EFFICIENCY DOCUMENTATION SOURCES

- AHRI Certificate www.ahridirectory.org
- CEE Directory www.ceedirectory.org
- ENERGY STAR listing www.energystar.gov

New Jersey Home Performance with ENERGY STAR®

c/o Conservation Services Group

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