

**HOUSING ASSISTANCE COUNCIL
SELF-HELP HOMEOWNERSHIP OPPORTUNITY PROGRAM (SHOP)
INCREASING ENERGY EFFICIENCY**

ENERGY STAR INFORMATION

Applicants are *required* to incorporate specific energy efficiency measures in the construction, and/or rehabilitation of SHOP-assisted units.

- a. SHOP units in newly constructed buildings or gut-rehabilitated buildings must be certified as meeting the guidelines for either ENERGY STAR New Homes or ENERGY STAR Multi-family High-Rise (MFHR), as determined by the U.S. Environmental Protection Agency and the U.S. Department of Energy.
- b. All features, appliances and products installed or replaced in SHOP units must have an ENERGY STAR label (including ENERGY STAR labeled CFLs, LEDs, or pin-based lighting fixtures and light bulbs) and be installed for achieving energy-efficiency for the Climate Zone in which the unit is located in accordance with ENERGY STAR requirements
- c. All SHOP units permitted after January 1, 2012 must be qualified under ENERGY STAR for Homes Version 3.0. There are two paths to qualify a home to earn the ENERGY STAR. The Prescriptive Path is based on a predefined package of improvements, while the Performance Path is based on a customized package of upgrades. But both paths require completion of four inspection checklists:
 - Thermal Enclosure System Rater Checklist
 - HVAC System Quality Installation Rater Checklist
 - HVAC System Quality Installation Contractor Checklist
 - Water Management System Builder ChecklistThese checklists include building science practices that promote improved comfort, indoor air quality, and durability in qualified homes.
- d. All SHOP homebuyers must be provided with guidance on the proper use and maintenance of the energy saving features, appliances and products that have been installed in their units.

ENERGY-STAR is an energy-conservation program sponsored by the U.S. Environmental Protection Agency and the U.S. Department of Energy. At such time as the ENERGY STAR or HUD'S energy-efficiency standards or requirements shall change, HUD requires compliance with the updated standards or requirements after providing the Grantee with reasonable notice.

For additional information, please refer to these following web sites:

ENERGY STAR

<http://www.energystar.gov/>

and/or

HOUSING ASSISTANCE COUNCIL

[Building Affordable ENERGY STAR® Qualified Homes](http://www.ruralhome.org/storage/documents/energystarreport.pdf)

<http://www.ruralhome.org/storage/documents/energystarreport.pdf>

(Please note, this HAC publication is a helpful ENERGY STAR overview, but has not been updated to reflect ENERGY STAR VERSION 3.0 transition information.)

**HOUSING ASSISTANCE COUNCIL
SELF-HELP HOMEOWNERSHIP OPPORTUNITY PROGRAM (SHOP)
INCREASING ENERGY EFFICIENCY**

HOME ENERGY RATING SYSTEM (HERS) RATER

A home energy rating involves an analysis of a home's construction plans and onsite inspections. Based on the home's plans, the Home Energy Rater uses an energy-efficiency software package to perform an energy analysis of the home's design. This analysis yields a projected, pre-construction HERS Index. Upon completion of the plan review, the rater will work with the builder to identify the energy efficiency improvements needed to ensure the house will meet ENERGY STAR performance guidelines. The rater then conducts onsite inspections, typically including a blower door test (to test the leakiness of the house) and a duct test (to test the leakiness of the ducts). Results of these tests, along with inputs derived from the plan review, are used to generate the HERS Index score for the home. For additional information, please refer to these following websites:

RESIDENTAL ENERGY SERVICES NETWORK (RESNET)

<http://www.resnet.us/directory/raters> and <http://www.resnet.us/rater/what-is-a-hers>

WATER CONSERVATION

Applicants are *required* to incorporate specific water-conservation measures in the construction and/or rehabilitation of the SHOP units. All water-usage products that are installed or replaced in SHOP units, including toilets, showers and faucets, will bear the "WaterSense" label when such WaterSense products exist. WaterSense is a water conservation program sponsored by the U.S. Environmental Protection Agency (EPA). Information about WaterSense can be found at:

ENVIRONMENTAL PROTECTION AGENCY (EPA)

<http://www.epa.gov/WaterSense/>

INDOOR AIR QUALITY

Applicants are *encouraged* to comply with the Environmental Protection Agency's (EPA) Indoor airPLUS specifications so that the SHOP units provide improved indoor air quality.

ENVIRONMENTAL PROTECTION AGENCY (EPA)

<http://epa.gov/indoorairplus/>