



## ENERGY STAR<sup>®</sup> Program Requirements for Appliances Partner Commitments

### Eligible Organizations: Manufacturers of Residential Appliances: Clothes Washers, Dishwashers, Room Air Conditioners and Refrigerators

#### Commitment

The following are the terms of the ENERGY STAR Partnership Agreement as it pertains to the manufacturing of ENERGY STAR qualified appliances. The ENERGY STAR PARTNER must adhere to the following program requirements:

- comply with current ENERGY STAR Eligibility Criteria, defining the performance criteria that must be met for use of the ENERGY STAR certification mark on appliances and specifying the testing criteria for appliances. DOE may, at its discretion, conduct tests on products that are referred to as ENERGY STAR qualified. These products may be obtained on the open market, or voluntarily supplied by PARTNER at DOE's request;
- comply with current ENERGY STAR Logo Use Guidelines, describing how the ENERGY STAR labels and name may be used. PARTNER is responsible for adhering to these guidelines and for ensuring that its authorized representatives, such as advertising agencies, dealers, and distributors, are also in compliance;
- qualify at least one ENERGY STAR labeled appliance model within one year of activating the appliances portion of the agreement. When PARTNER qualifies the product, it must meet the specification in effect at that time;
- provide clear and consistent labeling of ENERGY STAR qualified Appliances. The ENERGY STAR label must be clearly displayed on the top/front of the product (by placement of the ENERGY STAR logo on the FTC's EnergyGuide label, on product labels, and/or as a permanent mark), on the manufacturer's Internet site where information about ENERGY STAR qualified models is displayed, and in product literature (i.e., user manuals, spec sheets, etc.). It is also recommended that the label appear on product packaging;
- provide to DOE, on an annual basis, an updated list of ENERGY STAR qualifying appliance models. Once the PARTNER submits its first list of ENERGY STAR labeled appliance models, the PARTNER's company name will be listed as an ENERGY STAR PARTNER. PARTNER must provide annual updates in order to remain on the list of participating product manufacturers;
- notify DOE of a change in the designated responsible party or contacts for Appliances within 30 days.

## Performance for Special Distinction

In order to receive additional recognition and/or support from DOE for its efforts within the Partnership, the ENERGY STAR PARTNER may consider the following voluntary measures and should keep DOE informed on the progress of these efforts:

- consider energy efficiency improvements in company facilities and pursue the ENERGY STAR label for buildings;
- purchase ENERGY STAR labeled products. Revise the company purchasing or procurement specifications to include ENERGY STAR. Provide procurement officials' contact information to DOE for periodic updates and coordination. Circulate general ENERGY STAR labeled product information to employees for use when purchasing products for their homes;
- ensure the power management feature is enabled on all ENERGY STAR qualified monitors in use in company facilities, particularly upon installation and after service is performed;
- provide general information about the ENERGY STAR program to employees whose jobs are relevant to the development, marketing, sales, and service of current ENERGY STAR labeled product models;
- feature the ENERGY STAR label(s) on PARTNER web site and in other promotional materials. If information concerning ENERGY STAR is provided on the PARTNER web site, DOE may provide links where appropriate to the PARTNER web site;
- provide a simple plan to DOE outlining specific measures PARTNER plans to undertake beyond the program requirements listed above. By doing so, DOE may be able to coordinate, communicate, and/or promote PARTNER's activities, provide a DOE representative, or include news about the event in the ENERGY STAR newsletter, on the ENERGY STAR web pages, etc. The plan may be as simple as providing a list of planned activities or planned milestones that PARTNER would like DOE to be aware of. For example, activities may include: (1) increase the availability of ENERGY STAR labeled products by converting the entire product line within two years to meet ENERGY STAR guidelines; (2) demonstrate the economic and environmental benefits of energy efficiency through special in-store displays twice a year; (3) provide information to users (via the web site and user's manual) about energy-saving features and operating characteristics of ENERGY STAR qualified products, and (4) build awareness of the ENERGY STAR Partnership and brand identity by collaborating with DOE on one print advertorial and one live press event;
- provide quarterly, written updates to DOE as to the efforts undertaken by PARTNER to increase availability of ENERGY STAR qualified products, and to promote awareness of ENERGY STAR and its message.



## ENERGY STAR® Program Requirements for Appliances

### ENERGY STAR® Eligibility Criteria Energy-Efficiency Specification

Below is the product specification for ENERGY STAR qualified appliances. A product must meet all of the identified criteria if it is to be labeled as ENERGY STAR by its manufacturer.

1) **Effective Date:** The date that manufacturers may begin to qualify products as ENERGY STAR will be defined as the *effective date* of the agreement. The most recent ENERGY STAR clothes washer, dishwasher and refrigerator specifications went into effect on January 1, 2001. The most recent ENERGY STAR Room Air Conditioner specifications went into effect on October 1, 2000. A manufacturer has one year after signing the Partnership Agreement to ensure that the ENERGY STAR label appears directly on at least one ENERGY STAR qualified appliance model.

2) **Energy-Efficiency Specifications for Qualifying Products:**

A. **Clothes Washers:** The energy efficiency calculation of qualified clothes washers was slightly modified on **January 1, 2001**, changing from an energy factor (EF) to a modified energy factor (MEF). MEF is a new equation for Energy Factor that also takes into account the amount of dryer energy used to remove the remaining moisture content. The federal standard will begin using the MEF on January 1, 2004. The MEF calculation can be found at [www.energystar.gov/opic/library/#productspecs](http://www.energystar.gov/opic/library/#productspecs):

	Current Criteria	New Criteria—Effective Jan. 1, 2004
NAECA	Minimum Energy Factor of 1.18	Minimum MEF of 1.04
ENERGY STAR	Minimum MEF of 1.26	Minimum MEF of 1.42

B. **Dishwashers:** ENERGY STAR dishwashers must have a minimum energy factor of .58, which is 25% above the NAECA criteria. This specification officially went into effect on **January 1, 2001**:

	Current Criteria
NAECA	Energy Factor .46
ENERGY STAR	Minimum Energy Factor of .58 (or about 25% above the NAECA criteria)

C. **Refrigerators:** The current ENERGY STAR specification is set at 10% above the federal minimum efficiency standard that went into effect on **July 1, 2001**.

1. **NAECA Criteria for Refrigerators:** To calculate the NAECA criteria, the equations are given in the following table:

Product Class	NAECA maximum energy use (kWh/year)
3. Top Mount Freezer without through-the-door ice	9.8*AV + 276
4. Side Mount Freezer without through-the-door ice	4.91*AV + 507.5
5. Bottom Mount Freezer without through-the-door ice	4.6*AV + 459
6. Top Mount Freezer with through-the-door ice	10.2*AV + 356
7. Side Mount Freezer with through-the-door ice	10.1*AV + 406

AV stands for adjusted volume.

Adjusted volume = Fresh Volume + (1.63 x Freezer Volume).

## 2. ENERGY STAR Criteria for Refrigerators:

	Current Criteria	New Criteria—Effective Jan. 1, 2004
ENERGY STAR	10% below the current NAECA maximum energy use.	15% below the 2001 NAECA maximum energy use

- D. **Room Air Conditioners:** The ENERGY STAR criteria for room air conditioners is 10 percent above the NAECA criteria. Currently, only units *without* reverse cycle (heating function), and *with* louvered sides are considered for ENERGY STAR status. The numbers in the following table represent the Energy Efficiency Ratios (EER) that should be used to determine qualification for the ENERGY STAR label. They have been rounded to a single decimal and meet the specification of 10 percent more efficient than the new NAECA standard.

Product Class (Btu/Hr.)	NAECA Criteria	ENERGY STAR Criteria
<8000	9.7	10.7
8,000 to 13,999	9.8	10.8
14,000 to 19,999	9.7	10.7
20,000	8.5	9.4