



ENERGY STAR® Program Requirements for Dishwashers

Partner Commitments

FINAL VERSION 11/14/2008

Commitment

The following are the terms of the ENERGY STAR Partnership Agreement as it pertains to the manufacturing of ENERGY STAR qualified dishwashers. 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 dishwashers and specifying the testing criteria for dishwashers. At its discretion, DOE may 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 Identity Guidelines, describing how the ENERGY STAR marks and name must 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 qualified dishwasher model within one year of activating the dishwashers 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 dishwashers. The ENERGY STAR certification mark 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 dishwasher models. Once the PARTNER submits its first list of ENERGY STAR qualified dishwasher 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 dishwashers within thirty 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 to benchmark their buildings through the ENERGY STAR Buildings program;
- Purchase ENERGY STAR qualified 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 qualified 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 qualified product models;
- Feature the ENERGY STAR mark(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 for which the PARTNER would like DOE to be aware. For example, activities may include:
 - (1) Increase the availability of ENERGY STAR qualified 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 Criteria for Dishwashers

as November 14, 2008

Below are the product criteria for ENERGY STAR qualified dishwashers. A product must meet all of the identified criteria to be labeled as ENERGY STAR qualified by its manufacturer.

1) Definitions:

- a) **Compact Dishwasher:** A dishwasher that has a capacity less than eight place settings and six serving pieces.
- b) **Energy Factor (EF):** EF is expressed in cycles per kWh and is the reciprocal of the sum of the machine electrical energy per cycle plus the water energy consumption per cycle. The greater the EF, the more efficient the dishwasher.
- c) **Soil-Sensing Dishwasher:** a dishwasher that has the ability to adjust automatically any energy consuming aspect of a wash cycle based on the soil load of the dishes.
- d) **Standard Dishwasher:** A dishwasher that has a capacity greater than or equal to eight place settings and six serving pieces.
- e) **Standby Power:** the power consumed when the product is switched off or in a non-operational mode.

2) Qualifying Products: The current DOE standard (NAECA) has two product classes, compact and standard sized. Compact dishwashers have a capacity less than eight place settings plus six serving pieces. Standard dishwashers have a capacity greater than or equal to eight place settings plus six serving pieces. Only standard sized dishwashers are eligible for the ENERGY STAR dishwasher qualification.

3) ENERGY STAR Criteria:

Product Type	Federal Standard	Current ENERGY STAR Criteria as of January 1, 2007	Future Federal Standard as of January 1, 2010	Future ENERGY STAR Criteria as of August 11, 2009	Future ENERGY STAR Criteria as July 1, 2011
Standard	EF ≥ 0.46	EF ≥ 0.65	≤ 355 kWh/year ≤ 6.5 gallons per cycle	≤ 324 kWh/year ≤ 5.8 gallons per cycle	≤ 307 kWh/year ≤ 5.0 gallons per cycle
Compact	EF ≥ 0.62	EF ≥ 0.88	≤ 260 kWh/year ≤ 4.5 gallons per cycle	≤ 234 kWh/year ≤ 4.0 gallons per cycle	≤ 222 kWh/year ≤ 3.5 gallons per cycle

- 4) Test Criteria: Dishwasher manufacturers must self-test their equipment according to the DOE test procedure defined in 10 CFR 430, Subpart B, Appendix C, which was announced on August 29, 2003. This new test procedure establishes a separate test for soil-sensing machines. Included in the final rule was a decision to add standby energy consumption to the annual energy and cost calculation, but not to the energy factor calculation. Also, the average cycles per year has been lowered from 264 cycles per year to 215 cycles per year.
- 5) Effective Date: The effective date of this criterion is August 11, 2009. A manufacturer has one year after signing the Partnership Agreement to ensure that the ENERGY STAR certification mark appears directly on at least one ENERGY STAR qualified dishwasher model.

- 6) Future Criteria Revisions: ENERGY STAR reserves the right to change the criteria should technological and/or market changes affect its usefulness to consumers, industry, or the environment. Keeping with current policy, industry/stakeholder discussions will help determine any future revisions to the criteria.