Commitment

The following are the terms of the ENERGY STAR Partnership Agreement as it pertains to the manufacturing of ENERGY STAR qualified commercial griddles. 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 commercial griddles and specifying the testing criteria for commercial griddles. EPA 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 EPA's request;

• comply with current ENERGY STAR Identity Guidelines, describing how the ENERGY STAR marks 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 commercial griddle within one year of activating the commercial griddles' portion of the agreement. When Partner qualifies the product, it must meet the specification (e.g., Tier 1 or 2) in effect at that time;

• provide clear and consistent labeling of ENERGY STAR qualified commercial griddles. The ENERGY STAR mark must be clearly displayed on the front of the product, in product literature (i.e., user manuals, spec sheets, etc.), and on the manufacturer's Internet site where information about ENERGY STAR qualified models is displayed;

• provide to EPA, on an annual basis, an updated list of ENERGY STAR qualifying commercial griddle models. Once the Partner submits its first list of ENERGY STAR qualified commercial griddles, the Partner will be listed as an ENERGY STAR Partner. Partner must provide annual updates in order to remain on the list of participating product manufacturers;

• provide to EPA, on an annual basis, unit shipment data or other market indicators to assist in determining the market penetration of ENERGY STAR. Specifically, Partner must submit the total number of ENERGY STAR qualified commercial griddles shipped (in units by model) or an equivalent measurement as agreed to in advance by EPA and Partner. Partner is also encouraged to provide ENERGY STAR qualified unit shipment data segmented by meaningful product characteristics (e.g., capacity, size, speed, or other as relevant), total unit shipments for each model in its product line, and percent of total unit shipments that qualify as ENERGY STAR. The data for each calendar year should be submitted to EPA, preferably in electronic format, no later than the following March and may be provided directly from the Partner or through a third party. The data will be used by EPA only for program evaluation purposes and will be closely controlled. If requested under the Freedom of Information Act (FOIA), EPA will argue that the data is exempt. Any information used will be masked by EPA so as to protect the confidentiality of the Partner;

• notify EPA of a change in the designated responsible party or contacts for commercial griddles within 30 days.

Performance for Special Distinction

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

- consider energy efficiency improvements in company facilities and pursue the ENERGY STAR mark for buildings;
- purchase ENERGY STAR qualified products. Revise the company purchasing or procurement specifications to include ENERGY STAR. Provide procurement officials’ contact information to EPA 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 as specified by the ENERGY STAR Web Linking Policy (this document can be found in the Partner Resources section on the ENERGY STAR Web site at www.energystar.gov), EPA may provide links where appropriate to the Partner Web site;
- provide a simple plan to EPA outlining specific measures Partner plans to undertake beyond the program requirements listed above. By doing so, EPA may be able to coordinate, communicate, and/or promote Partner’s activities, provide an EPA 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 EPA 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 EPA on one print advertorial and one live press event;
- provide quarterly, written updates to EPA 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.
- join EPA's SmartWay Transport Partnership to improve the environmental performance of the company's shipping operations. SmartWay Transport works with freight carriers, shippers, and other stakeholders in the goods movement industry to reduce fuel consumption, greenhouse gases, and air pollution. For more information on SmartWay, visit www.epa.gov/smartway.
- join EPA's Climate Leaders Partnership to inventory and reduce greenhouse gas emissions. Through participation companies create a credible record of their accomplishments and receive EPA recognition as corporate environmental leaders. For more information on Climate Leaders, visit www.epa.gov/climateleaders.
- join EPA’s Green Power partnership. EPA’s Green Power Partnership encourages organizations to buy green power as a way to reduce the environmental impacts associated with traditional fossil fuel-based electricity use. The partnership includes a diverse set of organizations including Fortune 500 companies, small and medium businesses, government institutions as well as a growing number of colleges and universities, visit http://www.epa.gov/greenpower.
Below is the DRAFT 1 Version 1.0 product specification for ENERGY STAR qualified commercial griddles. A product must meet all of the identified criteria if it is to earn the ENERGY STAR.

**1) Definitions:** Below are the definitions of the relevant terms in this document.

A. **Single-Sided Commercial Griddle:** A commercial appliance designed for cooking food in oil or its own juices by direct contact with either a flat, smooth, hot surface (i.e., flat, polished steel plate) or a hot channeled cooking surface (i.e., polished steel ½-inch grooved plate) where plate temperature is thermostatically controlled.

B. **Double-Sided Commercial Griddle:** A commercial appliance designed for cooking food in oil or its own juices by direct contact with two hot surfaces where temperature is thermostatically controlled. A double-sided griddle has hinged upper griddle plates (platens) that swing down over the food, thereby cooking the food from both sides at once.

C. **Fry-Top Range:** A multi-purpose appliance used for surface cooking by direct contact with a heated plate, and may also function as a device for roasting, broiling, grilling or any combination of these methods. A fry-top range may have an oven located beneath the cooktop or shelving or may be mounted on top of a refrigerated base.

D. **Manual Control:** Infinite-control knob to regulate the input of each burner or element. Manual controls are calibrated in terms of the percentage of input, as the heater does not generally sense the temperature of the cooking surface.

E. **Thermostatic Control:** Simple temperature-feedback control that regulates the heaters based on griddle plate temperature. Thermostatic controls have the potential to sense the presence of cooking loads and offer better response and faster recovery when a load of fresh product is placed on the cooking surface.

F. **Cooking Energy Efficiency:** The ratio of energy absorbed by the food product to the total energy supplied to the griddle during cooking.

G. **Idle Rate:** The rate of griddle energy consumption while it is maintaining or holding at a stabilized operating condition or temperature. Also called standby energy rate. For the purposes if this specification the idle rate is normalized based on the area of the (bottom) cooking surface.

**Note:** Stakeholders are encouraged to comment on the definitions proposed above and/or provide suggestions regarding other terms that might need to be defined within this section.

**2) Qualifying Products:** A commercial griddle must meet definitions provided in Section 1A and 1B above to be eligible for ENERGY STAR qualification under this specification. Griddles that are manually controlled and fry-top ranges, as defined in Section 1 above, are not eligible for ENERGY STAR under this Version 1.0 specification.
Commercial griddles must meet all the requirements provided below to qualify as ENERGY STAR.

Double Sided Commercial Gas Griddles

- **Cooking Energy Efficiency** > 38%
- **Normalized Idle Energy Rate** ≤ 2,600 Btu/h per ft²

Double Sided Commercial Electric Griddles

- **Cooking Energy Efficiency** > 70%
- **Normalized Idle Energy Rate** ≤ 320 watts/ft²

*Cooking energy efficiency measured at heavy load conditions per ASTM F1275 and F1605.

The formulae for normalizing the idle energy rates for gas and electric griddles are as follows:

\[
q_{g-idle,n} = \frac{q_{\text{gas}}(\text{Btu} / \text{h})}{A(\text{ft}^2)}, \quad q_{e-idle,n} = \frac{1000 \times q_{\text{elec}}(\text{kW})}{A(\text{ft}^2)}
\]

Where
- \(q_{g-idle,n}\) = normalized gas griddle idle energy rate, Btu/h/ft²,
- \(q_{\text{gas}}\) = gas energy rate during idle, Btu/h,
- \(q_{e-idle,n}\) = normalized electric griddle idle energy rate, W/ft²,
- \(q_{\text{elec}}\) = electric energy rate during idle, kW,
- \(A\) = area of the bottom cooking surface (ft²)

Double-sided griddles that include an electric top plate and gas bottom plate must meet the cooking energy efficiency and idle energy rate for gas griddles in Table 1, above. Manufacturers should use the formula provided below to determine normalized idle energy rate in Btu/h per ft².

\[
q_{ds-idle,n} = \frac{q_{\text{gas}}(\text{Btu} / \text{h}) + 3413 \times q_{\text{elec}}(\text{kW})}{A(\text{ft}^2)}
\]

Where
- \(q_{ds-idle,n}\) = normalized gas griddle idle energy rate, Btu/h/ft²,
- \(q_{\text{gas}}\) = gas energy rate during idle, Btu/h,
- \(q_{\text{elec}}\) = electric energy rate during idle, kW,
- \(A\) = area of the bottom cooking surface (ft²)
Note: The primary objective of ENERGY STAR is to recognize the most energy-efficient products in the marketplace. In developing a specification, EPA considers the following criteria:

- Significant energy and/or water savings can be realized on a national basis;
- Product performance is maintained or enhanced with increased efficiency;
- Purchase of high efficiency product will be cost-effective;
- Energy and/or water efficiency can be achieved through several technology options; at least one of which is non-proprietary;
- Product energy and/or water consumption and performance can be measured and verified with testing;
- Labeling would effectively differentiate products and be visible for purchasers.

It is not EPA’s intention to design a specification that will allow every model to qualify. The performance levels proposed in Tables 1 and 2 are based on data provided by PG&E’s Food Service Technology Center (FSTC) and represent approximately the top 25% of both the electric and gas griddle datasets. EPA hopes that over time, the percentage of qualified products will increase as ENERGY STAR penetrates the market. While the gas dataset is fairly robust, the electric dataset is more limited. Manufacturers are encouraged to test their electric griddles and provide data to EPA for consideration in the electric griddles analysis.

Both the gas and electric datasets include single- and double-sided griddles, albeit limited data points for the latter. Because both product types offer the same functionality, EPA is proposing the same requirements for single- and double-sided griddles. Double-sided griddles that use an electric top plate and bottom plate must meet the requirements in Table 2 while griddles that use an electric top plate and gas bottom plate must meet the requirements in Table 1 using the calculation provided above to convert kW to Btu/h in order to determine normalized idle energy rate. EPA is proposing the use of a normalized idle energy rate to avoid creating individual performance levels for each griddle size, which could limit the types of griddles eligible for ENERGY STAR. Stakeholders are encouraged to comment on EPA’s approach and proposed levels, above.

4) **Test Criteria**: Partner is required to perform tests and self-certify those product models that meet the ENERGY STAR guidelines. The test results must be reported to EPA using the Commercial Griddles Qualifying Product Information (QPI) Form. When testing commercial griddles, the partner agrees to use the following test procedures to determine ENERGY STAR compliance:

- ASTM F1275: *Standard Test Method for the Performance of Griddles*
- ASTM F1605: *Standard Test Method for the Performance of Double-Sided Griddles*

Note: ASTM standards define cooking energy efficiencies for heavy-load (roughly four hamburger patties per square foot) and light-load (four hamburger patties per load) conditions. For purposes of ENERGY STAR cooking energy efficiency is measured at heavy-load conditions.

5) **Effective Date**: The date that manufacturers may begin to label and promote qualifying products as ENERGY STAR will be defined as the effective date of the agreement. The ENERGY STAR Commercial Griddle Specification shall go into effect on **February 5, 2009**
Note: Typically, EPA looks to announce a new ENERGY STAR specification in conjunction with an industry trade show or conference. It is EPA’s hope to finalize this specification in late January and launch the new product category at the North American Foodservice Equipment Manufacturers (NAFEM) Show, February 5 – 7, 2009. However, EPA also realizes that this is an aggressive timeline. If more time is needed to refine the requirements, NAFEM will provide an opportunity to meet with manufacturers and discuss the latest draft specification. Stakeholders are encouraged to provide feedback on this timeline and suggestions for other potential launch venues (e.g., NRA Show in May, 2009).

6) Future Specification Revisions: EPA reserves the right to change the specification should technological and/or market changes affect its usefulness to consumers, industry, or the environment. In keeping with current policy, revisions to the specification are arrived at through industry discussions. In the event of a specification revision, please note that ENERGY STAR qualification is not automatically granted for the life of a product model. To carry the ENERGY STAR mark, a product model must meet the ENERGY STAR specification in effect on the model's date of manufacture.