Induction Cooking and ENERGY STAR:

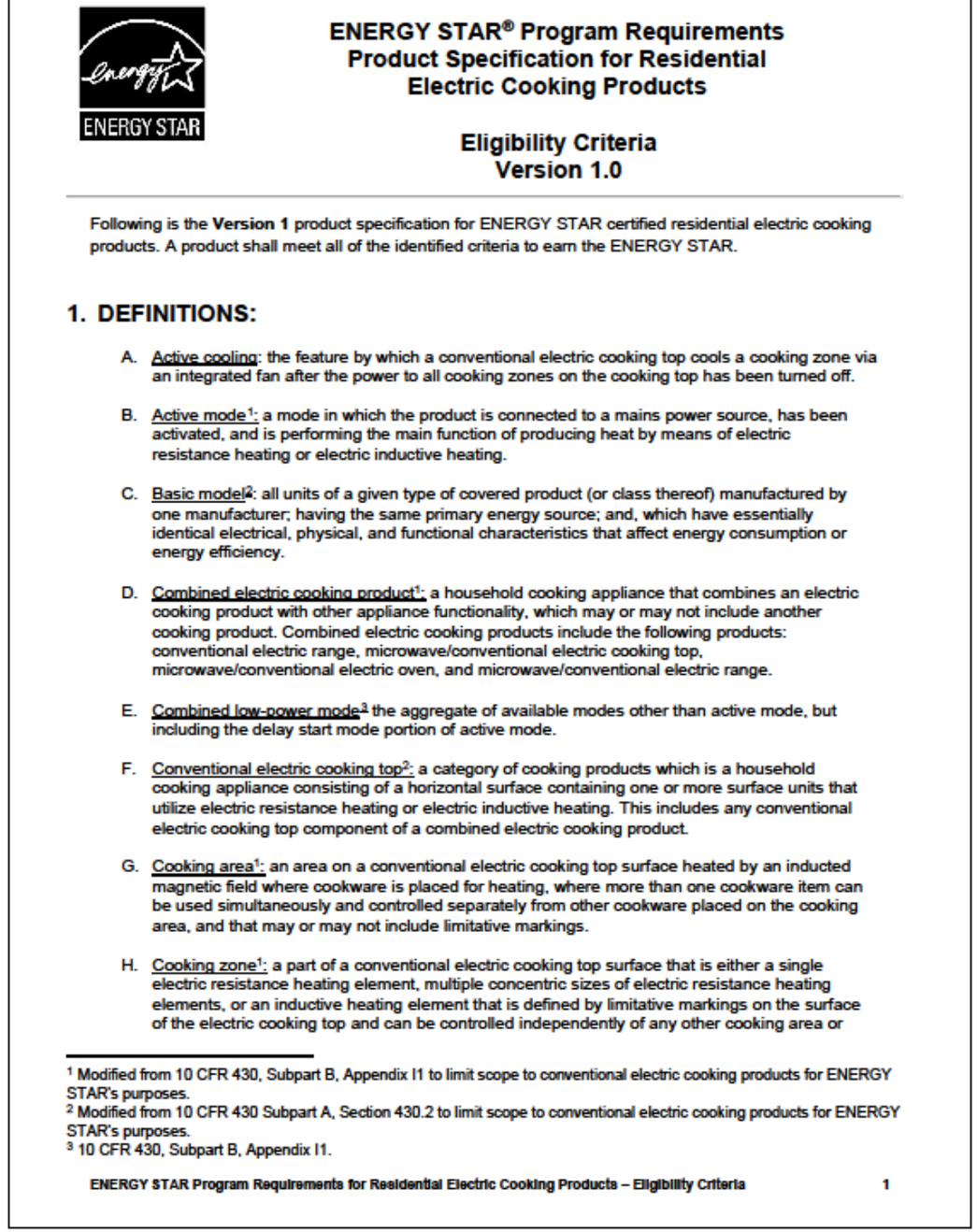
A Recipe for an Energy Efficient Kitchen of the Future

Specification Published!

EPA is pleased to share the ENERGY STAR Residential Electric Cooking Products Version 1.0 Specification was published on September 25, 2023.

The drivers for this specification → the DOE test procedure published on August 2022 + the home electrification & appliance rebates require ENERGY STAR certification

Productive engagement with stakeholders



ENERGY STAR® Program Requirements
Product Specification for Residential
Electric Cooking Products

Eligibility Criteria
Version 1.0

Following is the **Version 1** product specification for ENERGY STAR certified residential electric cooking products. A product shall meet all of the identified criteria to earn the ENERGY STAR.

1. DEFINITIONS:

A. Active cooling: the feature by which a conventional electric cooking top cools a cooking zone via an integrated fan after the power to all cooking zones on the cooking top has been turned off.

B. Active mode[1]: a mode in which the product is connected to a mains power source, has been activated, and is performing the main function of producing heat by means of electric resistance heating or electric inductive heating.

C. Basic model[3]: all units of a given type of covered product (or class thereof) manufactured by one manufacturer; having the same primary energy source; and, which have essentially identical electrical, physical, and functional characteristics that affect energy consumption or energy efficiency.

D. Combined electric cooking product[1]: a household cooking appliance that combines an electric cooking product with other appliance functionality, which may or may not include another cooking product. Combined electric cooking products include the following products: conventional electric range, microwave/conventional electric cooking top, microwave/conventional electric oven, and microwave/conventional electric range.

E. Combined low-power mode[3] the aggregate of available modes other than active mode, but including the delay start mode portion of active mode.

F. Conventional electric cooking top[2]: a category of cooking products which is a household cooking appliance consisting of a horizontal surface containing one or more surface units that utilize electric resistance heating or electric inductive heating. This includes any conventional electric cooking top component of a combined electric cooking product.

G. Cooking area[1]: an area on a conventional electric cooking top surface heated by an inducted magnetic field where cookware is placed for heating, where more than one cookware item can be used simultaneously and controlled separately from other cookware placed on the cooking area, and that may or may not include limitative markings.

H. Cooking zone[1]: a part of a conventional electric cooking top surface that is either a single electric resistance heating element, multiple concentric sizes of electric resistance heating elements, or an inductive heating element that is defined by limitative markings on the surface of the electric cooking top and can be controlled independently of any other cooking area or

[1] Modified from 10 CFR 430, Subpart B, Appendix I1 to limit scope to conventional electric cooking products for ENERGY STAR's purposes.
[2] Modified from 10 CFR 430 Subpart A, Section 430.2 to limit scope to conventional electric cooking products for ENERGY STAR's purposes.
[3] 10 CFR 430, Subpart B, Appendix I1.

Scope & Savings for the Version 1.0 Specification

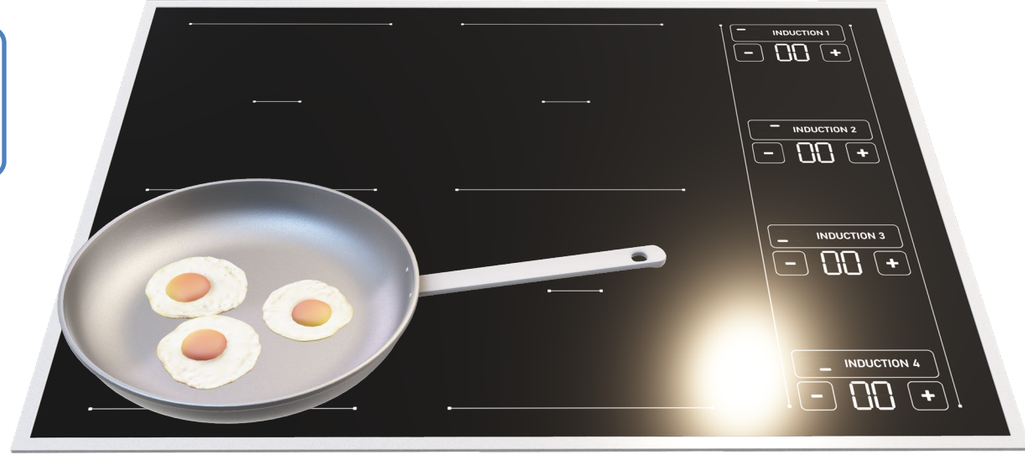
Eligible Products

- Ranges
- Cooktops (including portable)

Ineligible Products

- Commercial products
- Combined cooking products that include a microwave oven component
- Gas cooking products
- Griddles

If all residential electric cooking tops sold in the U.S. were ENERGY STAR certified, the energy cost savings would grow to more than $150 million each year, and more than 1.5 billion pounds of greenhouse gas emissions would be prevented.



What Now?

Labs and Certifying Bodies are working to be recognized for certifying ENERGY STAR cooktops and ranges

Manufacturers may begin certifying models

Models will soon appear on the ENERGY STAR Qualified Products List

Speakers

Rachelle Boucher

Senior Lead, Culinary Events and Experiences
Building Decarbonization Coalition

Speakers

Danielle Crocker

Consultant, Energy Efficiency, Channel Team - C&I and Residential
Eversource Energy

Speakers

Prerna Tomar

Director and Senior Public Policy Counsel, Samsung