



# **ENERGY STAR<sup>®</sup> Commercial Fryers**

## **Draft 1 Version 3.0 Stakeholder Webinar**

October 20, 2015



## Agenda

- Welcome and Introductions
- Overview of Specification Development Process
- Review of Draft 1 Proposal
- Timeline and Next Steps
- Q & A



## ENERGY STAR Guiding Principles for Revisions

- ENERGY STAR specifications are reviewed every 3 years or when market share exceeds 35%
  - Version 2.0 became effective on April 22, 2011
- Common reasons ENERGY STAR specifications are revised
  - Increase in ENERGY STAR market penetration
  - Change in the Federal minimum efficiency standards
  - Technological advancements
  - Product availability limitations
  - Performance or quality issues
  - Change in test procedures



## Fryers Review

- Gas Market:
  - Levels continue to differentiate
  - Low ENERGY STAR market penetration
    - 16% for standard and 39% large vat
  - Availability of low cost, new technologies that are more efficient is a challenge
  - EPA will monitor gas fryer market and may revise performance levels under a subsequent revision
- Electric Market:
  - Standard vat fryer levels have remained constant since Version 1 (2003)
    - Until recently, product category saw low market penetration
  - High ENERGY STAR market penetration for **electric** fryers (2014)
    - > 50% for standard and large vat fryers

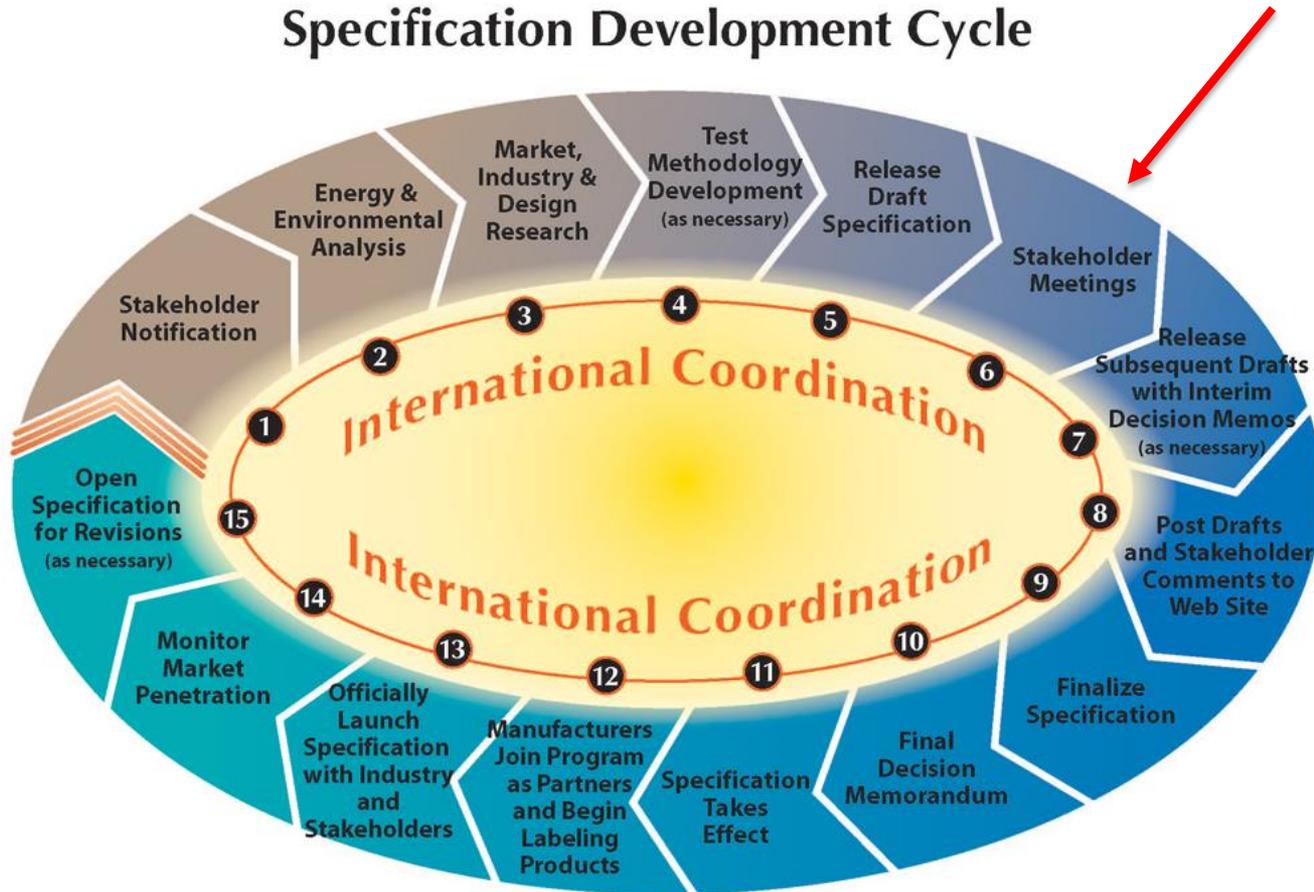


## Focus of Version 3.0 Revision Effort

- EPA evaluated performance data and product availability for standard and large vat electric fryers
  - **Standard Vat:** robust data set, good brand representation, sufficient differentiation and savings potential with revised levels
  - **Large Vat:** smaller data set, tighter spread of data, low product availability, limited efficiency gains
- Stakeholders expressed support for revisions to standard vat levels
  - Availability of relatively low cost design options to improve efficiency
- Revision effort will focus on **electric standard vat fryers**
  - EPA will continue to monitor electric large vat fryer market and technologies to determine potential for future revisions

# Overview of Stakeholder Comment Process

## Specification Development Cycle





# Review of Draft 1 Specification Criteria



## Definitions and Scope

- Based on market research, EPA found several drop-in models listed in the same size categories as countertop, floor type fryers
  - These designs offer the same cooking performance as countertop and floor type fryers
- EPA is considering opening scope to these products types:
  - To ensure end users have a choice based on kitchen design
  - Manufacturers have an opportunity to certify more efficient models that meet these needs

**Question:** Is there interest and demand for “drop-in” in models and are there nuances about product design or operation that EPA should be aware when considering their inclusion?



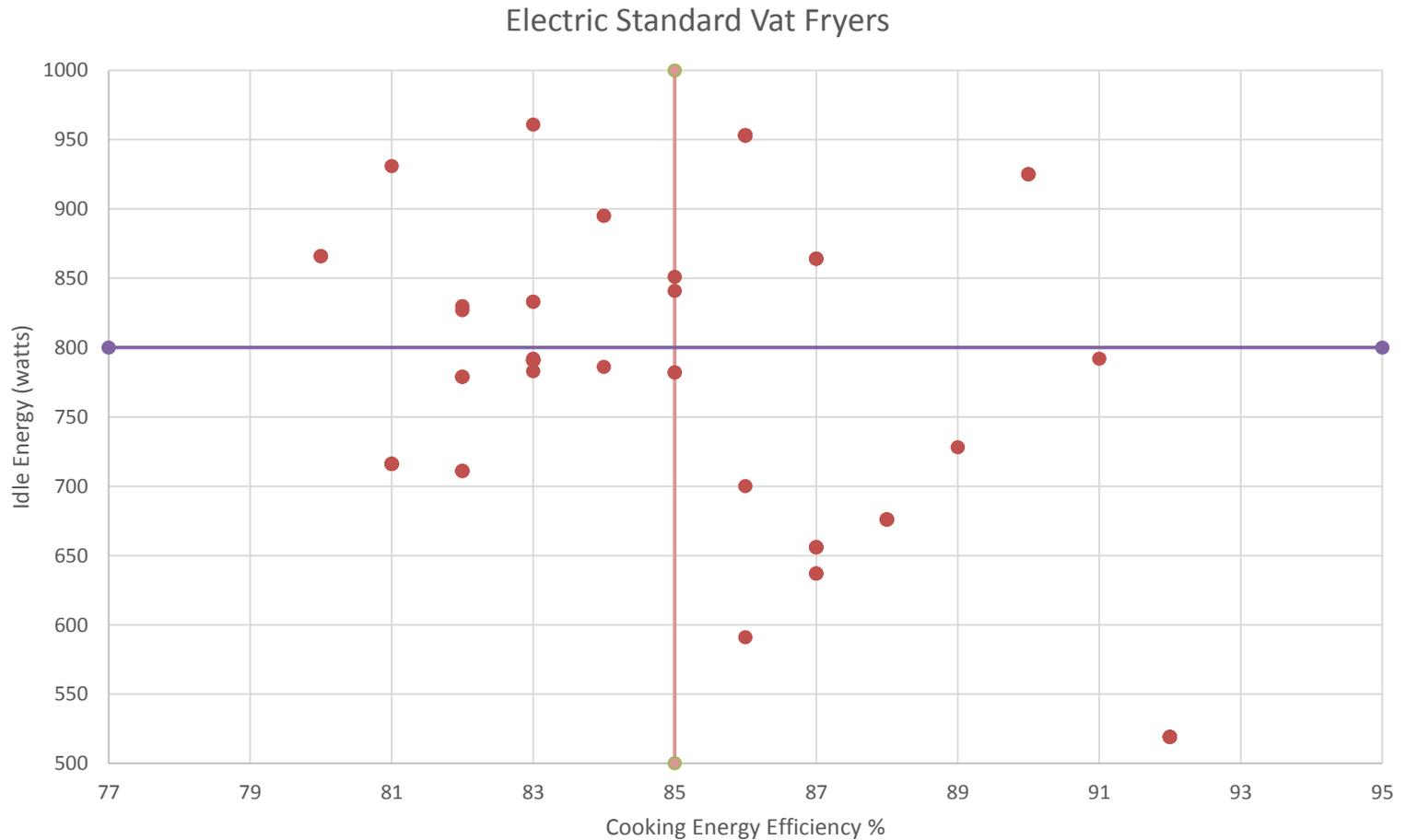
## Draft 1 Performance Levels – Electric Standard Vat Fryers

- New cooking energy-efficiency and idle rate levels
- Unit savings of 19% compared to standard, non-ENERGY STAR
- ~13% product availability, several models close to meeting levels
- Multiple (6) manufacturers represented

<b>Table 2: Energy Efficiency Requirements for Standard Open Deep-Fat Electric Fryers</b>	
Heavy-Load Cooking Energy Efficiency	$\geq 85\%$
Idle Energy Rate	$\leq 800$ watts



# Standard Electric Vat Performance Data





## Test Procedure Updates

- **Standard Fryers:** ASTM Standard F1361-07 (2013), *Test Method for Performance of Open Deep Fat Fryers*
- **Large Vat Fryers:** ASTM Standard F2144-09, *Test Method for Performance of Large Open Vat Fryers*
  - Both standards to be reviewed later this year to address potential loopholes and to bring instrumentation specifications up to date
  - Changes **not** expected to impact energy performance



## Timeline and Next Steps

- Stakeholder comments on Draft 1 due **November 6, 2015**
  - Send to [commercialfoodservice@energystar.gov](mailto:commercialfoodservice@energystar.gov)
- Final Draft in November/December
- Final Specification released in Q4 of 2015 or Q1 of 2016
- Version 3.0 specification becomes effective 9 months after finalization
  - Target Date: Q4 2016
- EPA will release a subsequent Draft 2 only if needed, depending on stakeholder comments received



## Q&A

- EPA questions for stakeholders:
  - Are there other fryer types that EPA should consider at this time?
  - Do any clarifications need to be made to definitions, scope, other sections of the specification?
  - What is considered standard efficiency in the market today?
  - Are there other considerations that need to be taken into account when setting performance levels for electric standard fryers?
- Other questions?



# Thank you!

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