

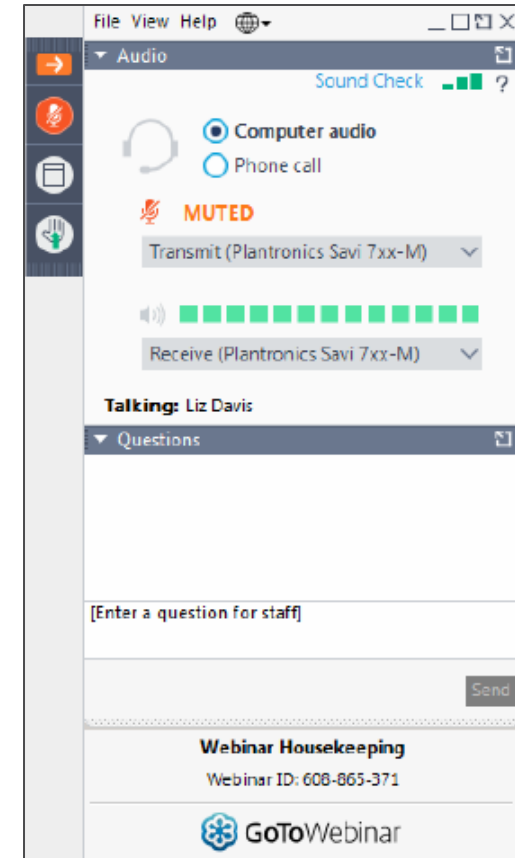


# **ENERGY STAR<sup>®</sup> Version 2.0 Clothes Dryer, 9.0 Clothes Washer, 1.0 Combined Laundry Products Draft 1 Specification**

Stakeholder Webinar - February 5, 2025

# Using GoTo Webinar and Audio Controls

- Audio Provided via teleconference:
  - **United States:** +1 (213) 929-4221
  - **Access Code:** 417-717-193
  - **Webinar ID:**
- Phone lines will be muted at the start of the presentation
- Please leave your line on mute unless speaking during the call for questions
- Press \*6 to unmute your line and when you are finished with your question or comment, press \*6 to mute
- Webinar will be posted on the [Clothes Dryer](#) and [Clothes Washer](#) product development pages.



# Introductions

## Steve Leybourn

[Leybourn.Stephen@epa.gov](mailto:Leybourn.Stephen@epa.gov)

ENERGY STAR Product Manager  
U.S. Environmental Protection Agency

## Payal Hukeri

[Payal.Hukeri@icf.com](mailto:Payal.Hukeri@icf.com)

Lead Energy & Sustainability Engineer  
ICF

## Max Pawlak

[Max.Pawlak@icf.com](mailto:Max.Pawlak@icf.com)

Energy & Sustainability Researcher  
ICF

## Stu Forsman

[Sture.Forsman@icf.com](mailto:Sture.Forsman@icf.com)

Energy & Sustainability Engineering Analyst  
ICF



# Meeting Agenda

Time	Topic
<b>1:00-1:10</b>	<b>Background</b>
1:10-1:40	Clothes Dryers <ul style="list-style-type: none"><li>- Drivers</li><li>- Market Assessment</li><li>- Scope</li><li>- Proposed Levels and Pass Rates</li><li>- Savings and Payback</li></ul>
1:40-2:10	Clothes Washers <ul style="list-style-type: none"><li>- Drivers</li><li>- Market Assessment</li><li>- Scope</li><li>- Proposed Levels and Pass Rates</li><li>- Savings and Payback</li></ul>
2:10-2:40	Combined Laundry Products <ul style="list-style-type: none"><li>- Drivers</li><li>- Scope</li><li>- Proposed Levels</li></ul>
2:40-2:50	Request for Feedback
2:50-3:00	Timeline and Open Discussion

# Specification Development

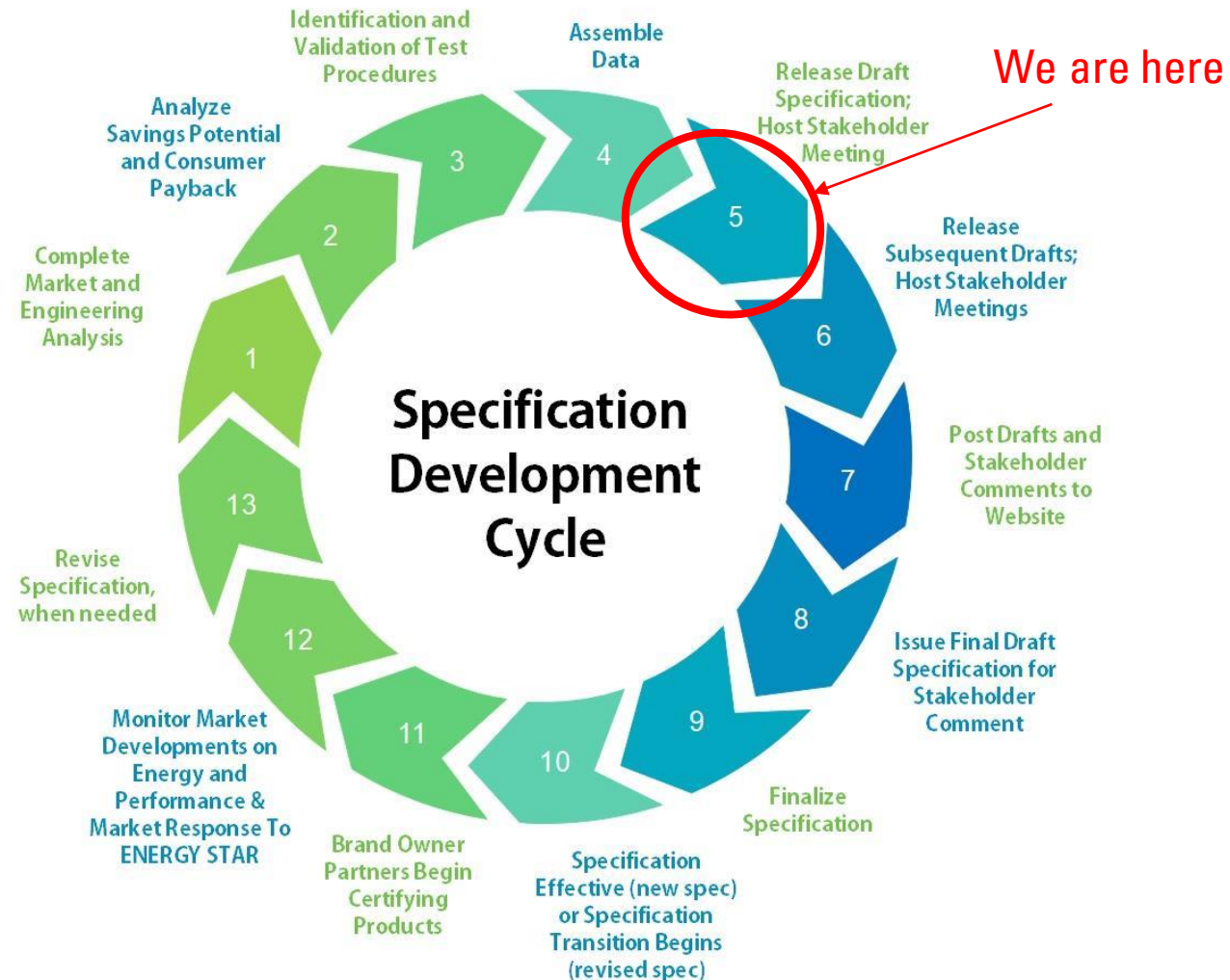
- ENERGY STAR follows [EPA's Standard Operating Procedure](#) through the specification development or revisions process, balancing:
  - The need to keep pace with evolution among leading products and continue to effectively differentiate for consumers
  - Production cycles, other factors important to the industry
- Key elements of the stakeholder process:
  - Consistency, transparency, inclusiveness, responsiveness, and clarity
  - Stakeholder engagement is a vital aspect to the success of the ENERGY STAR program

The screenshot shows the ENERGY STAR website's 'Product Specification Development Efforts' page. The page features a navigation bar with 'Find Products', 'Save at Home', 'New Homes', 'Commercial Buildings', and 'Industrial Plants'. A breadcrumb trail reads: Home » Partner Resources » Products Partner Resources » Brand Owner Resources » Product Specification Development Efforts. The main content area is titled 'ENERGY STAR Product Specification Development Efforts' and includes a paragraph explaining the program's history and goals. A sidebar on the left lists 'Products Partner Resources' with sub-sections like 'Brand Owner Resources', 'Partner Commitments', and 'Product Specification Development Efforts'. On the right, there are sections for 'PLANNING' (Business Plan, Quarterly Update, Product Development Contacts), 'OTHER PRODUCT INFORMATION' (Product Finder, API Datasets, Unit Shipment Data, Third-Party Certification, International Agreements), and 'ARCHIVES' (Product Development Archives, Guiding Principles, SOP Development, ACEEE Papers). A search bar is located at the top right.

[https://www.energystar.gov/partner\\_resources/brand\\_owner\\_resources/product\\_specification\\_development\\_process](https://www.energystar.gov/partner_resources/brand_owner_resources/product_specification_development_process)



# Specification Development Cycle



# Meeting Agenda

Time	Topic
1:00-1:10	Background
1:10-1:40	<b>Clothes Dryers</b> <ul style="list-style-type: none"><li>- <b>Drivers</b></li><li>- <b>Market Assessment</b></li><li>- <b>Scope</b></li><li>- <b>Proposed Levels and Pass Rates</b></li><li>- <b>Savings and Payback</b></li></ul>
1:40-2:10	Clothes Washers <ul style="list-style-type: none"><li>- Drivers</li><li>- Market Assessment</li><li>- Scope</li><li>- Proposed Levels and Pass Rates</li><li>- Savings and Payback</li></ul>
2:10-2:40	Combined Laundry Products <ul style="list-style-type: none"><li>- Drivers</li><li>- Scope</li><li>- Proposed Levels</li></ul>
2:40-2:50	Request for Feedback
2:50-3:00	Timeline and Open Discussion

# Background and Drivers – Dryers

## Background:

- The Clothes Dryer Version 1.0 specification became effective January 1, 2015
  - Scope: Products that meet the definition of an Electric Clothes Dryer or Gas Clothes Dryer, and the definition of a consumer product, with the exception of Commercial Clothes Dryers, Water-Cooled Ventless Clothes Dryer, Combination All-in-One Washer-Dryers, and Residential Clothes Washers with an Optional Dry Cycle.

## Rationale:

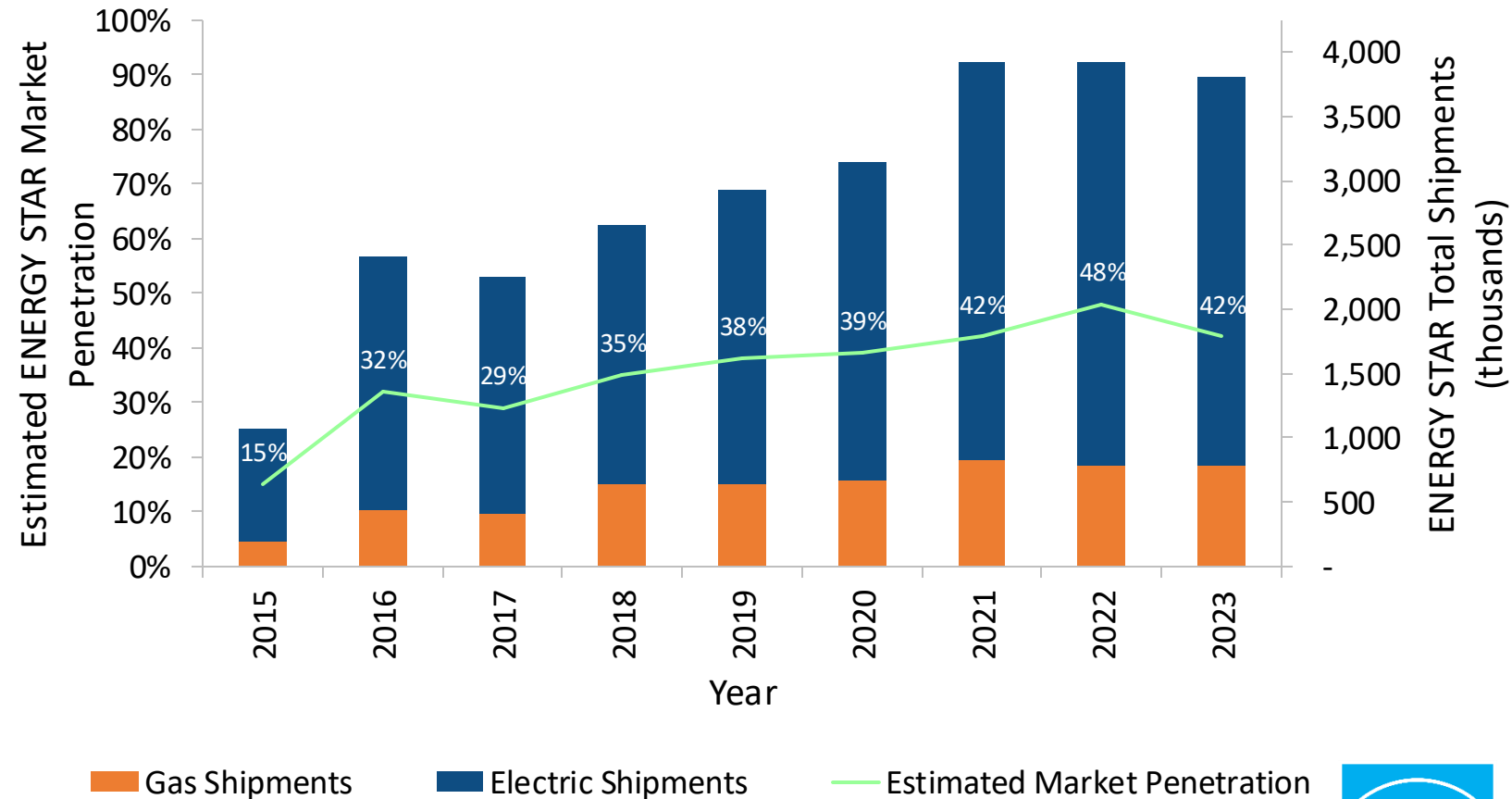
- The ENERGY STAR market share was 42% in 2023.
- There is differentiation in efficiency of certified models. This presents an opportunity for the ENERGY STAR program to deliver additional energy savings and improve the consumer value the label provides.





# ENERGY STAR Clothes Dryer Market Share

- ENERGY STAR Clothes Dryer Shipments have risen above 3,500,000 a year.
- Shipments have generally increased each year since 2015.
- ENERGY STAR market share has generally risen since 2017.



Gas Shipments

Electric Shipments

Estimated Market Penetration



# Clothes Dryer Scope for V2.0 Draft 1

- **Included Products**

- Products that meet the definition of an Electric Clothes Dryer or Gas Clothes Dryer, and the definition of a consumer product

- **Excluded Products**

- Commercial Clothes Dryers
- Water-Cooled Ventless Clothes Dryer
- Combination All-in-One Washer-Dryers
- Laundry Centers
- Residential Clothes Washers with an Optional Dry Cycle



# Commercial Clothes Dryers

- There is an ongoing effort to develop a test procedure for commercial clothes dryers.
- Multiple stakeholders expressed support to expand the scope to include commercial clothes dryers because of the meaningful savings opportunity.
- Specific stakeholder suggestions include:
  - Developing a test procedure based on Appendix D2.
  - The dryer should not be preconditioned with heating during testing.
  - Manufacturers produce washers that are 300 G-Force and higher, thus the starting moisture content for the dryer should be 44% for a 50/50 polyester and cotton load or 56% for 100% cotton load.
- The EPA and the DOE welcome additional feedback on the development of the commercial clothes dryer test procedure.



# Dryer Cycle Settings – Eco

- The Test Requirements section of the draft specification proposes when the cycle required to be tested under Appendix D2 is selected, the dryer shall not default to an eco mode or setting, which is a setting that indicates to the consumer it would make the cycle more energy-efficient.
- This proposal is following up from the May 2020 Memo shown to the right. The purpose is to ensure ENERGY STAR models perform at least at ENERGY STAR performance levels when the tested cycle is used, not just when an optional setting is selected or on.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



OFFICE OF  
AIR AND RADIATION

May 19, 2020

Dear ENERGY STAR® Clothes Dryer Partner or Other Interested Stakeholder,

The U.S. Environmental Protection Agency (EPA) has become aware that clothes dryer cycles have increased in number and that settings have become much more adjustable since the [ENERGY STAR Clothes Dryer Specification Version 1](#) ("Version 1") became effective on January 1, 2015. In response, EPA is clarifying the intention of the ENERGY STAR specification, that ENERGY STAR certified clothes dryers default back to the cycle and settings in which they were tested and that savings information for downloadable cycles be made available for consumers.

Since Version 1 went into effect, EPA has learned of the availability of functionalities that impact the clothes dryer cycles that are typically used. Consumers with clothes dryers that are Wi-Fi-enabled, or "smart," are now able to download specialized cycles. Also, for some dryer models, consumers can change default settings for some cycles in ways that persist. Additionally, EPA has discovered that some clothes dryer models default to the last-used cycle upon next use. These shifts in functionality could mean that a clothes dryer is rarely run in the cycle in which it was tested and obtained ENERGY STAR certification, likely contrary to consumer expectations.

EPA makes clear its intent that the tested mode persists per the note under Section 3.B of Version 1, that products "provide consumers with a satisfactory experience in the tested mode so as to encourage continued use and consistently yield both savings and environmental benefit."

Further, the Version 1 specification requires manufacturers to provide the specific cycle and setting selections on which the energy-use rating of a dryer is based in informational materials per Section 3.C.a. Guidance about cycles and settings that may use more or less energy than the tested cycle must also be provided to consumers per Section 3.C.b.; this requirement applies to cycles that are downloadable post-installation, as well.

EPA is clarifying its expectation that future clothes dryers certified to Version 1 perform in a manner consistent with its stated intent regarding the consistent use of the default or tested mode. Specifically, certified models should default to the cycle and settings in which the products were tested and obtained ENERGY STAR certification prior to each use. Further, partners are required to provide consumers with information on the energy implications of downloadable cycles. This clarification reflects EPA's heightened interest and attention to this issue.

Please contact me at [Park.Ga-Young@epa.gov](mailto:Park.Ga-Young@epa.gov) or (202) 564-1085, or Steve Leybourn at [Steve.Leybourn@icf.com](mailto:Steve.Leybourn@icf.com) or (202) 862-1566 with any questions or concerns.

Best Regards,

A handwritten signature in blue ink that reads "Ga-Young Park".

Ga-Young Park  
Product Manager for Appliances  
ENERGY STAR Labeled Products

[https://www.energystar.gov/sites/default/files/asset/document/ENERGY%20STAR%20Version%201.1%20Clothes%20Dryer%20Clarification%20Memo\\_0.pdf](https://www.energystar.gov/sites/default/files/asset/document/ENERGY%20STAR%20Version%201.1%20Clothes%20Dryer%20Clarification%20Memo_0.pdf)



# Dryer Efficiency Levels – Minimum CEF

Product Type	Current DOE Standards	Version 1.1	Draft 1 Version 2.0
Vented Gas	3.30	3.48	3.65
Ventless or Vented Electric, Standard (4.4 cu-ft or greater capacity)	3.73	3.93	5.20
Ventless or Vented Electric, Compact 120V (less than 4.4 cu-ft capacity)	3.61	3.80	6.30
Ventless or Vented Electric, Compact 240 V (less than 4.4 cu-ft capacity)	2.55	2.68	5.50



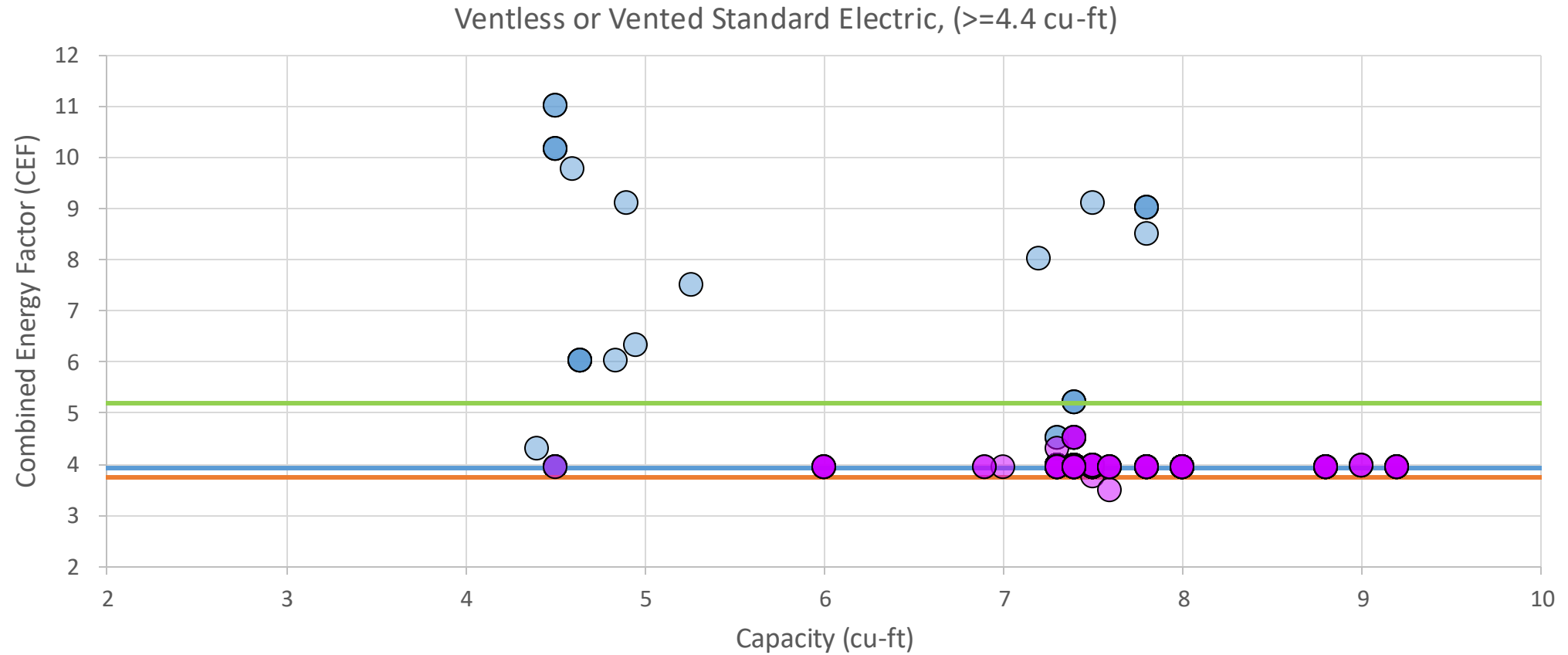
# Dryer Product Availability and Pass Rate\*

Product Type	# of Models in CCMS	# of ENERGY STAR Models in QPL	# of Models Meeting ENERGY STAR Draft 1 V2.0	% of Models Meeting ENERGY STAR Draft 1 V2.0
Vented Gas	328	87	0	0%
Ventless or Vented Electric, Standard (4.4 cu-ft or greater capacity)	141	147	16	11%
Ventless or Vented Electric, Compact 120 V (less than 4.4 cu-ft capacity)	22	4	4	18%
Ventless or Vented Electric, Compact 240 V (less than 4.4 cu-ft capacity)	40	34	10	25%

\* Based on conversations with partners, the EPA anticipates additional availability of products meeting the proposed levels in 2025 and beyond. For electric, in part due to generous rebates for heat pump dryers becoming available in most states. For gas, initially through rerating.



# Dryer Charts – Standard-Size Electric

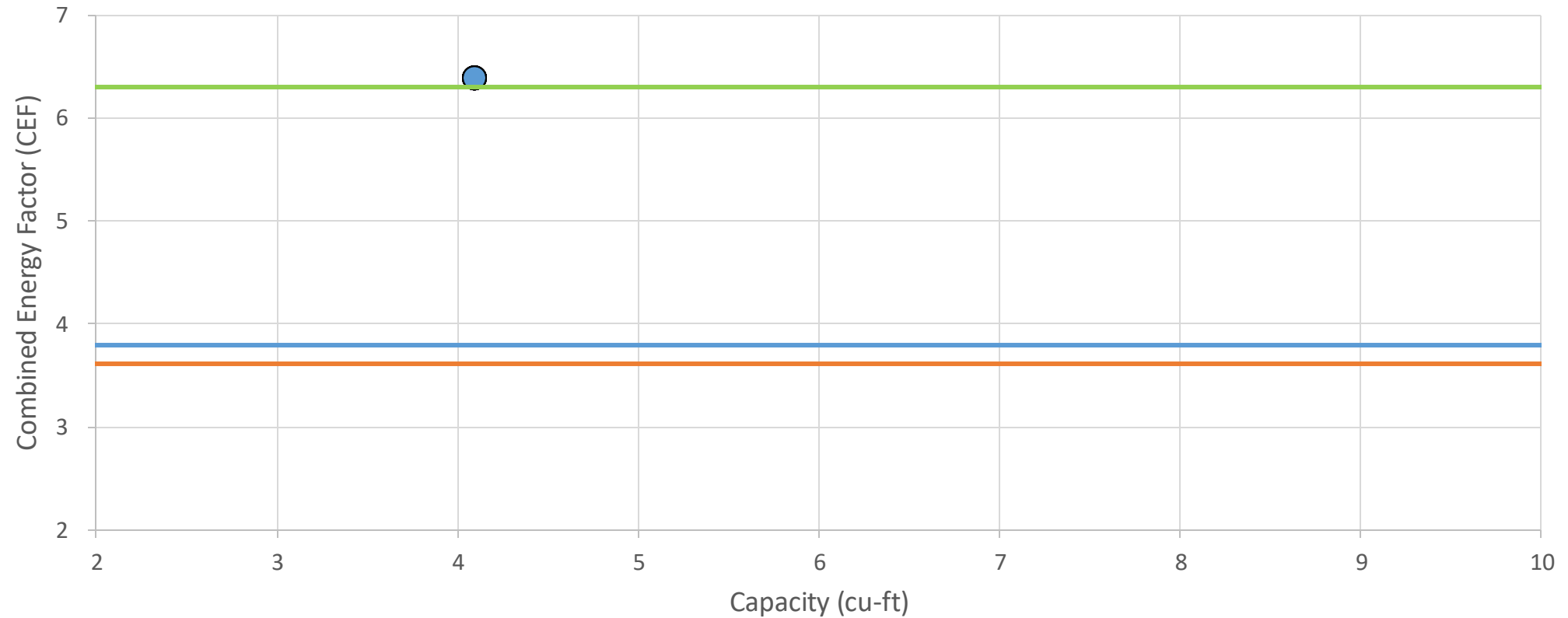


- Ventless Standard Electric ( $\geq 4.4$  cu-ft) - CEF
- V1.1 ENERGY STAR Electric- Standard ( $\geq 4.4$  cu-ft)
- Vented Standard Electric ( $\geq 4.4$  cu-ft) - CEF
- Federal Standard Vented Electric- Standard ( $\geq 4.4$  cu-ft)
- V2.0 ENERGY STAR Electric- Standard ( $\geq 4.4$  cu-ft) Proposal



# Dryer Charts – Compact-Size Electric 120V

Ventless or Vented Compact Electric, 120 V (<4.4 cu-ft) Clothes Dryers



○ Ventless or Vented Compact Electric 120V (<4.4 cu-ft) - CEF

— Federal Standard Vented Electric- Compact 120V (<4.4 cu-ft)

— V1.1 ENERGY STAR Ventless Electric- Compact 120V (<4.4 cu-ft)

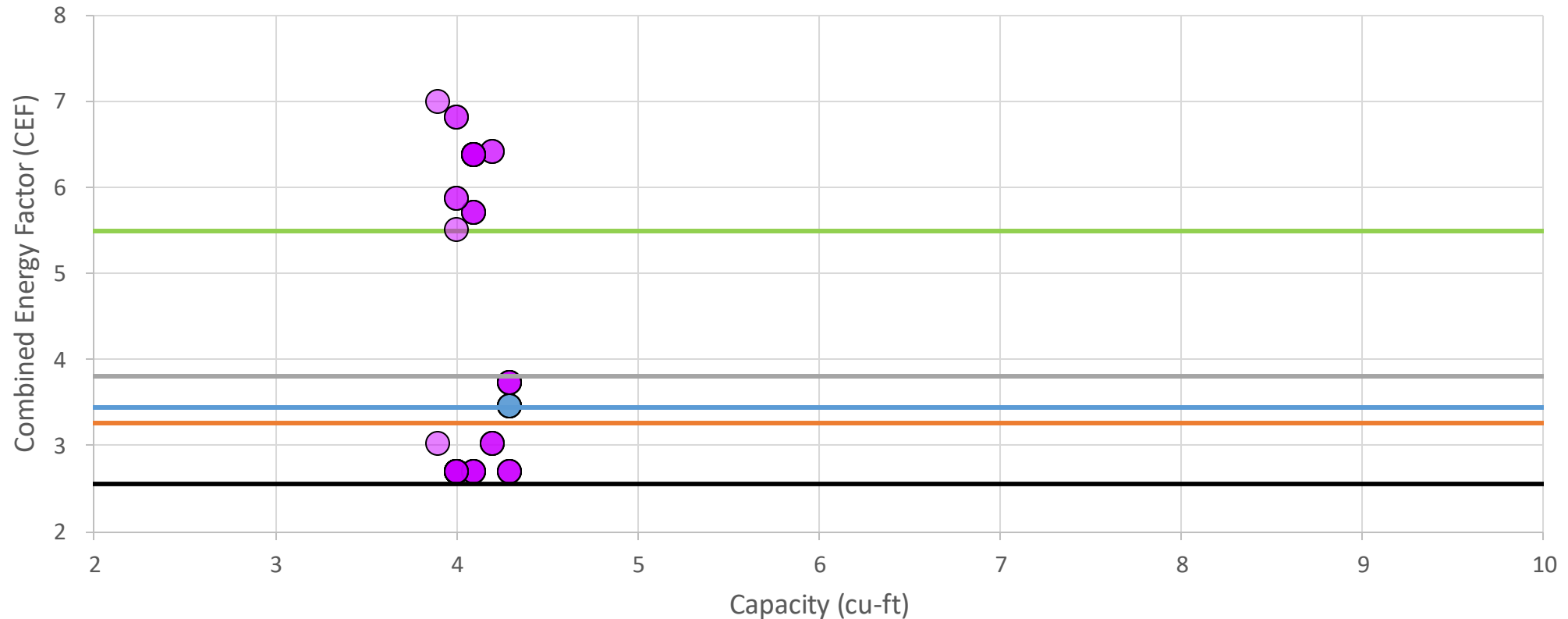
— V2.0 ENERGY STAR Ventless Electric- Compact 120V (<4.4 cu-ft) Proposal





# Dryer Charts – Compact-Size Electric 240V

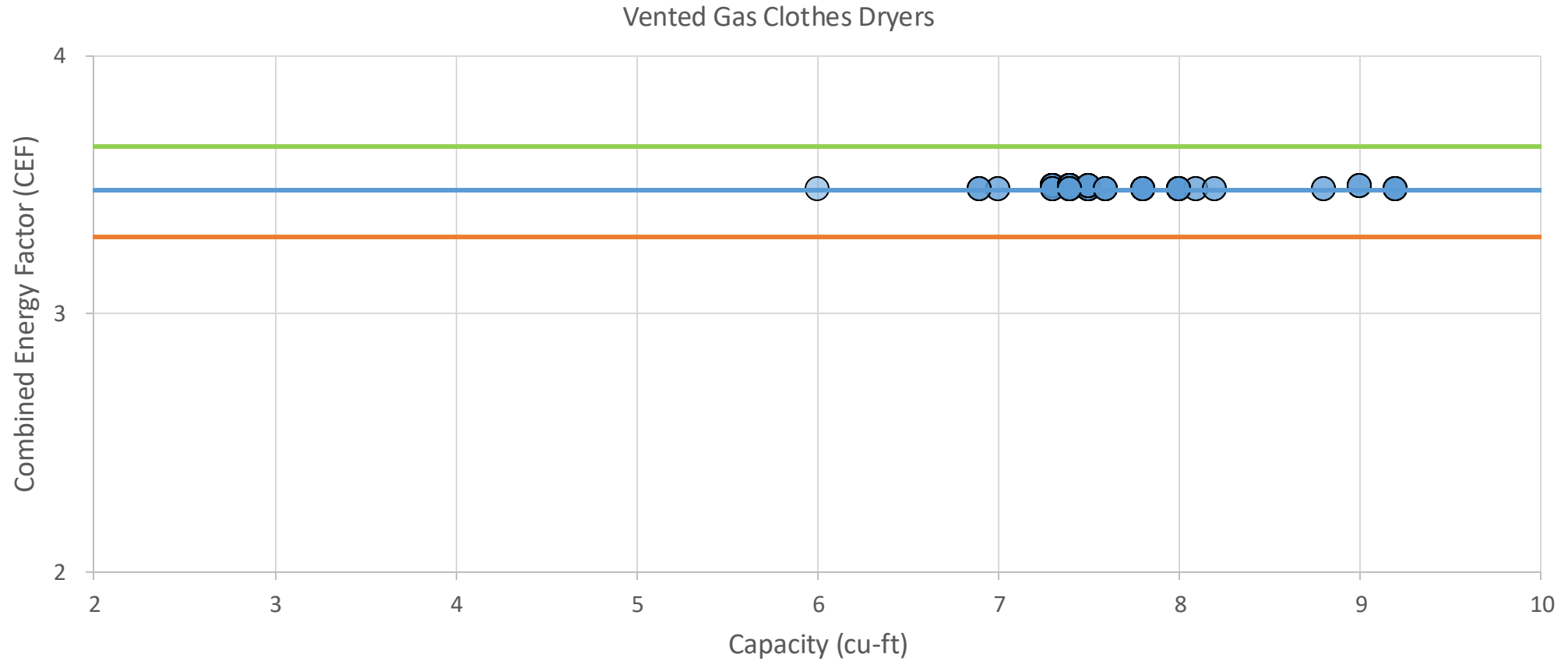
Ventless or Vented Compact Electric, 240V (<4.4 cu-ft) Clothes Dryers



- Vented Compact Electric 240V (<4.4 cu-ft) - CEF
- V1.1 ENERGY STAR Vented Electric- Compact 240V (<4.4 cu-ft)
- Ventless Compact Electric 240V (<4.4 cu-ft)- CEF
- V1.1 ENERGY STAR Ventless Electric- Compact 120V (<4.4 cu-ft)
- Federal Standard Vented Electric- Compact 240V (<4.4 cu-ft)
- V2.0 ENERGY STAR Vented/Ventless Electric- Compact 240V (<4.4) Proposal
- Federal Standard Ventless Electric- Compact 240V (<4.4 cu-ft)



# Dryer Charts – Gas



○ Vented Gas - CEF

— Federal Standard Vented Gas

— V1.1 ENERGY STAR Vented Gas

— V2.0 ENERGY STAR Gas Proposal



# Clothes Dryer Savings

Version 2.0 Draft 1 (compared to 2015 DOE)

Product Type	ENERGY STAR Electrical Savings (kWh)		ENERGY STAR Energy Savings (MMBTU)		ENERGY STAR Monetary Savings (\$)	
	Annual	Lifetime	Annual	Lifetime	Annual	Lifetime
<b>Vented Gas</b>	9	131	0.6	8.5	\$10	\$140
<b>Ventless or Vented Electric, Standard (4.4 cu-ft or greater capacity)</b>	309	4,324	N/A	N/A	\$45	\$630
<b>Ventless or Vented Electric, Compact 120V (less than 4.4 cu-ft capacity)</b>	270	3,780	N/A	N/A	\$39	\$550
<b>Ventless or Vented Electric, Compact 240 V (less than 4.4 cu-ft capacity)</b>	268	3,747	N/A	N/A	\$39	\$545

\*Assumptions: The Federal Standard that took effect in 2015 is used as the baseline to calculate savings. Calculations assume energy use based on DOE Test Procedure (10 CFR 430, Subpart B, Appendix D2), \$0.141/kWh, and \$14.29/MMBtu. A lifetime of 14 years for electric and gas was assumed, per DOE's Final Rule.



# Clothes Dryer Payback

Product Type	Efficiency Level	CEF	Average Annual Energy Cost (\$)	Average Purchase Cost (\$)	Payback (yrs)
<b>Vented Gas</b>	Current DOE Standard	3.3	\$45	\$765	-
	ENERGY STAR V2.0	3.65	\$35	\$819	0.1
<b>Ventless or Vented Electric, Standard (4.4 cu-ft or greater capacity)</b>	Current DOE Standard	3.73	\$112	\$892	-
	ENERGY STAR V2.0	5.2	\$67	\$1,216	0
<b>Ventless or Vented Electric, Compact 120V (less than 4.4 cu-ft capacity)</b>	Current DOE Standard	3.61	\$59	\$367	-
	ENERGY STAR V2.0	6.3	\$20	\$371	4.9
<b>Ventless or Vented Electric, Compact 240 V (less than 4.4 cu-ft capacity)</b>	Current DOE Standard	2.55	\$61	\$1,399	-
	ENERGY STAR V2.0	5.5	\$22	\$1,326	4.1



# Meeting Agenda

Time	Topic
1:00-1:10	Background
1:10-1:40	Clothes Dryers <ul style="list-style-type: none"><li>- Drivers</li><li>- Market Assessment</li><li>- Scope</li><li>- Proposed Levels and Pass Rates</li><li>- Savings and Payback</li></ul>
<b>1:40-2:10</b>	<b>Clothes Washers</b> <ul style="list-style-type: none"><li>- <b>Drivers</b></li><li>- <b>Market Assessment</b></li><li>- <b>Scope</b></li><li>- <b>Proposed Levels and Pass Rates</b></li><li>- <b>Savings and Payback</b></li></ul>
2:10-2:40	Combined Laundry Products <ul style="list-style-type: none"><li>- Drivers</li><li>- Scope</li><li>- Proposed Levels</li></ul>
2:40-2:50	Request for Feedback
2:50-3:00	Timeline and Open Discussion

# Background and Drivers – Clothes Washers

## Background:

- The Clothes Washer Version 8.0 specification became effective February, 2018
  - Scope: Products that meet the definition of a Residential Clothes Washer or Commercial Clothes Washer
    - Exceptions: Products with a primary clothes washer drum less than 1.6 cubic feet, any products configured in any way other than a front- or top-loading design, Combination All-in-One Washer-Dryers, Laundry Centers, Residential Clothes Washers with Heated Drying Functionality, Commercial Clothes Washers with a clothes container volume larger than 8.0 cubic feet, and Commercial Clothes Washers with a top-load design.

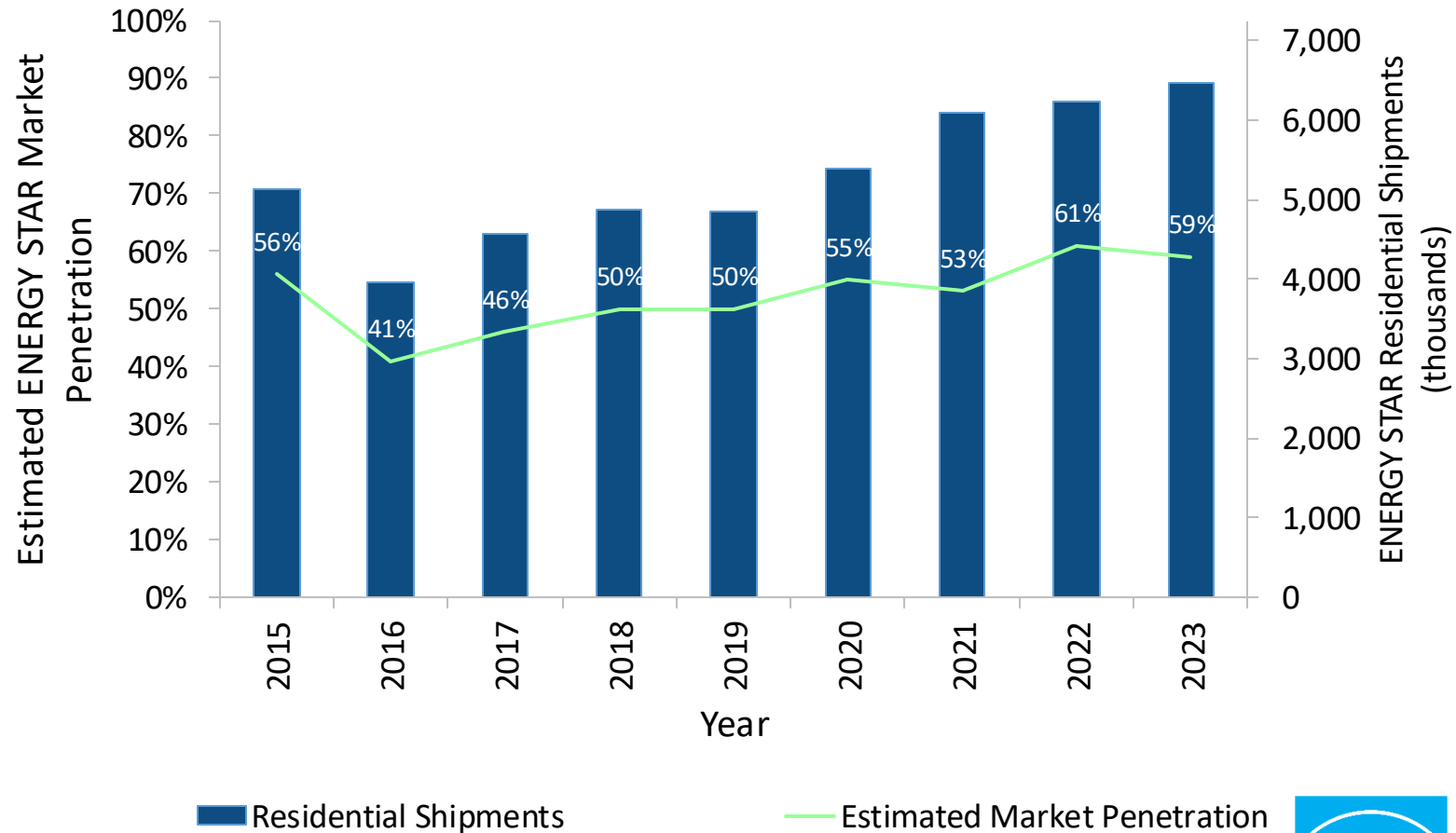
## Rationale:

- The ENERGY STAR market share was 59% in 2023.
- There is differentiation in efficiency of certified models. This presents an opportunity for the ENERGY STAR program to deliver additional energy savings and improve the consumer value the label provides.



# ENERGY STAR Clothes Washer Market Share

- ENERGY STAR Clothes Washer Shipments have risen above 6,000,000 a year.
- Residential shipments have generally increased each year since 2016.
- ENERGY STAR market share has generally risen since 2016.



# Clothes Washer Scope for V9.0 Draft 1

Included Products: Products that meet the definition of a Residential Clothes Washer or Commercial Clothes Washer.

Excluded Products: The following products are not eligible for ENERGY STAR certification:

- Products with a clothes washer drum volume of less than 1.6 cubic feet
- Products configured in any way other than a front- or top-loading design
- Combination All-in-One Washer-Dryers
- Laundry Centers
- Residential Clothes Washers with Heated Drying Functionality
- Commercial Clothes Washers with a clothes container volume larger than 8.0 cubic feet
- Commercial Clothes Washer with top-loading design





# Washer Efficiency Levels – MEF, IMEF, and IWF

Capacity Range	DOE Minimum IMEF (2018 Standard)	DOE Maximum IWF (2018 Standard)	Version 9.0 ENERGY STAR Draft 1 Minimum IMEF	Version 9.0 ENERGY STAR Draft 1 Maximum IWF
Front Loading (> 2.5 cu-ft)	1.84	4.70	2.92	3.00
Top Loading (> 2.5 cu-ft)	1.57	6.50	2.20	3.70
Small (≤ 2.5 cu-ft)	1.84	4.70	2.20	3.70
Capacity Range	DOE Minimum MEF (2018 Standard)	DOE Minimum IWF (2018 Standard)	Version 9.0 ENERGY STAR Draft 1 Minimum MEF	Version 9.0 ENERGY STAR Draft 1 Maximum IWF
Commercial	2.00	4.10	2.20	4.00



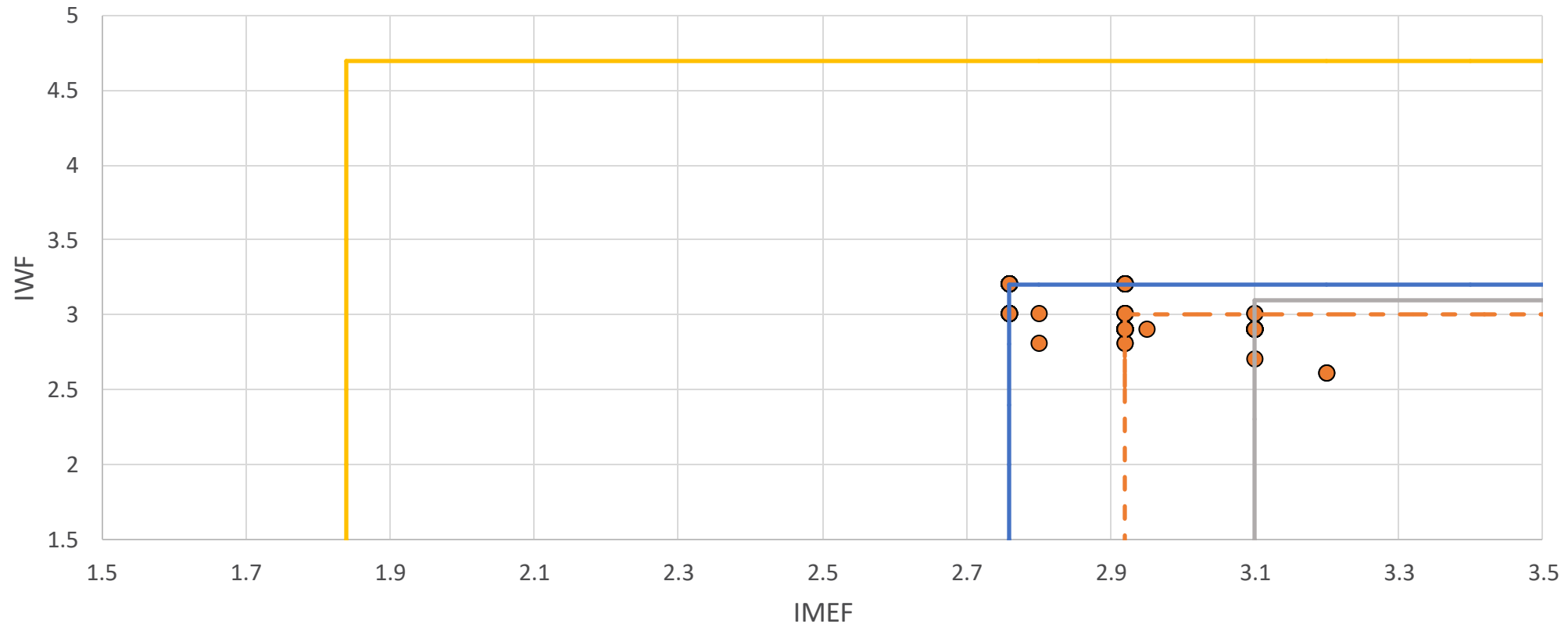
# Clothes Washer Product Availability & Pass Rate

Product Category	# of Models in CCMS	# of ENERGY STAR Models in QPL	# of Models Meeting ENERGY STAR Draft 1 V9.0	% of Models Meeting ENERGY STAR Draft 1 V9.0
Front Loading (> 2.5 cu-ft)	84	106	41	49%
Top Loading (> 2.5 cu-ft)	258	77	16	6%
Small (≤ 2.5 cu-ft)	31	41	11	35%
Commercial	33	22	21	95%



# Washer Charts – Front Load

Front Load Clothes Washers > 2.5 cu-ft

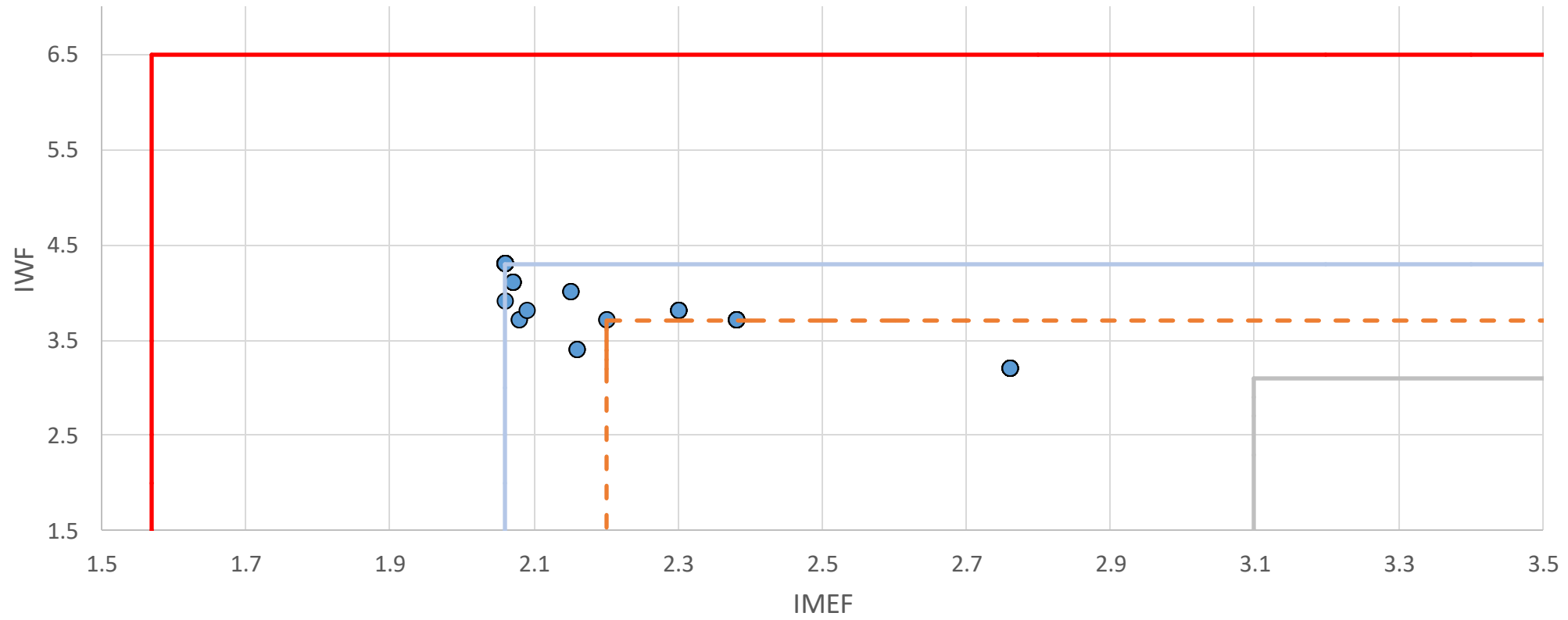


● Front Load    — Federal Standard - Front Load    — ENERGY STAR V8.1 - Front Load    - - - Proposed Levels    — ESME 2025 (>2.5 cu-ft)



# Washer Charts – Top Load

Top Load Clothes Washers > 2.5 cu-ft

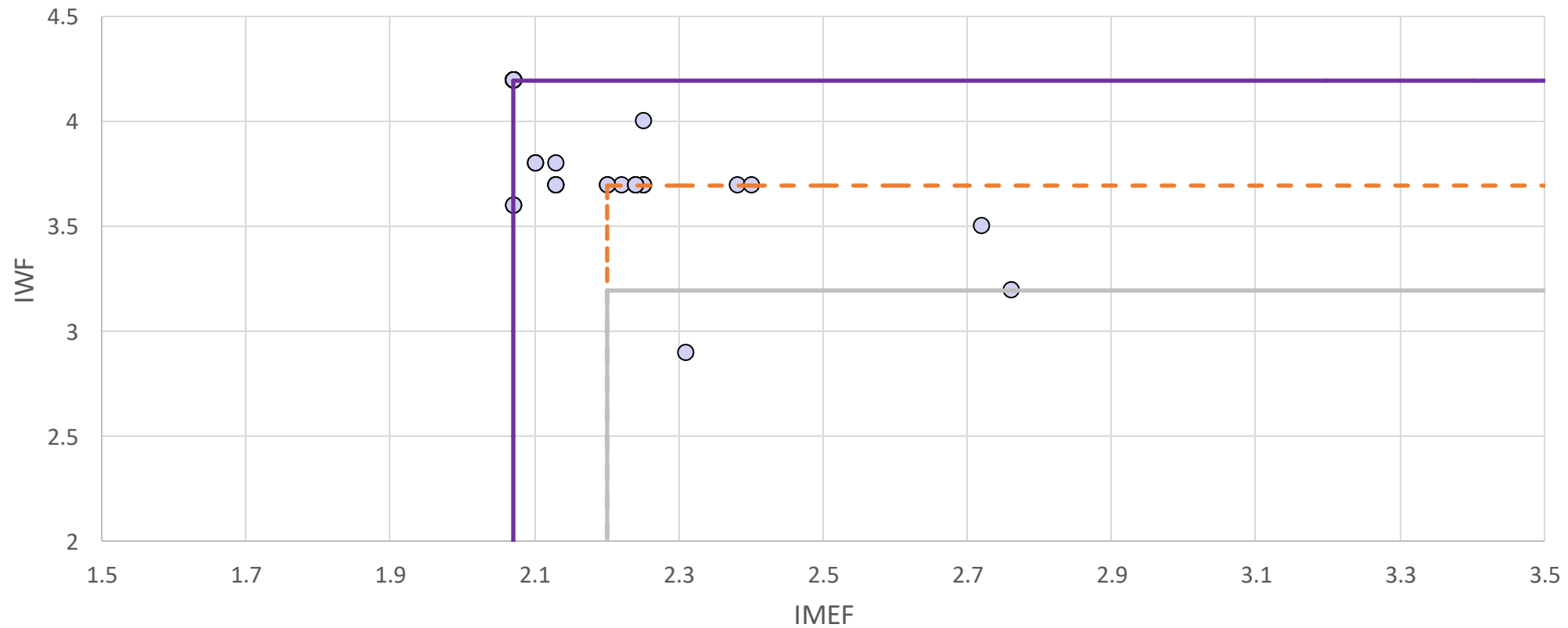


● Top Load — Federal Standard - Top Load — ENERGY STAR V8.1 - Top Load - - Proposed Levels — ESME 2025 (>2.5 cu-ft)



# Washer Charts – Small

Clothes Washers  $\leq 2.5$  cu-ft



○ Small Size

— ENERGY STAR V8.1 - Small Washers

- - - Proposed Levels

— ESME 2025 ( $\leq 2.5$  cu-ft)



# Clothes Washer Savings\*

Version 9.0 Draft 1 (compared to 2018 DOE)

Product Type	ENERGY STAR Electrical Savings (kWh/yr)		ENERGY STAR Water Savings (gal/yr)		ENERGY STAR Monetary Savings (\$)	
	Annual	Lifetime	Annual	Lifetime	Annual	Lifetime
Front Loading (> 2.5 cu-ft)	273	3,554	2,312	30,055	\$81	\$1,048
Top Loading (> 2.5 cu-ft)	253	3,288	3,882	50,469	\$107	\$1,385
Small (≤ 2.5 cu-ft)	66	853	738	9,588	\$23	\$295
Commercial Laundromat (Front Load)	586	4,842	898	7,424	\$98	\$761
Commercial Multi-Family (Front Load)	428	4,159	657	6,377	\$59	\$1,280

\*Assumptions: The Federal Standard that took effect in 2018 is used as the baseline to calculate savings. Calculations assume energy use based on the DOE Test Procedure (10 CFR 430, Subpart B, Appendix J2), \$0.141/kWh, 18.32 \$/thousand gallons. A lifetime of 13 years for Residential Clothes Washers was assumed, per the DOE's Final Rule. A lifetime of 7.1 years was used for Commercial Laundromat Washers and a lifetime of 11.3 years was used for Commercial Multi-Family Washers.



# Clothes Washer Payback

Product Type	Level Description	IMEF	IWF	Installed Cost (\$)	First Year Operating Cost (\$)*	Average Payback (yrs)
Front Loading (> 2.5 cu-ft)	2018 DOE Standard	1.84	4.70	\$1,307	\$169	0.7
	Draft 1 Version 9.0	2.92	3.00	\$1,349	\$109	
Top Loading (>2.5 cu-ft)	2018 DOE Standard	1.57	6.50	\$949	\$214	3.6
	Draft 1 Version 9.0	2.20	3.70	\$1,175	\$152	
Small (≤ 2.5 cu-ft)	2018 DOE Standard	1.84	4.70	\$1,199	\$73	1.5
	Draft 1 Version 9.0	2.20	3.70	\$1,216	\$62	



# Meeting Agenda

Time	Topic
1:00-1:10	Background
1:10-1:40	Clothes Dryers <ul style="list-style-type: none"><li>- Drivers</li><li>- Market Assessment</li><li>- Scope</li><li>- Proposed Levels and Pass Rates</li><li>- Savings and Payback</li></ul>
1:40-2:10	Clothes Washers <ul style="list-style-type: none"><li>- Drivers</li><li>- Market Assessment</li><li>- Scope</li><li>- Proposed Levels and Pass Rates</li><li>- Savings and Payback</li></ul>
2:10-2:40	<b>Combined Laundry Products</b> <ul style="list-style-type: none"><li>- <b>Drivers</b></li><li>- <b>Scope</b></li><li>- <b>Proposed Levels</b></li></ul>
2:40-2:50	Request for Feedback
2:50-3:00	Timeline and Open Discussion



# Background and Drivers – Combined Laundry Products

## **Background:**

- Laundry Centers have been within scope of the washer specification since Version 6 and the dryer specification since Version 1.
- Combination all-in-one washer-dryers were added to the Version 8.1 washer specification and required the dryer meet the dryer specification criteria.

## **Rationale:**

- To reduce the administrative burden for the EPA in collecting and posting information and to mitigate confusion around requirements and recognition for these products.



# Scope – Combined Laundry Products

Included Products: Products that meet the definition of a Residential Combination All-in-One Washer/Dryer or Laundry Center as specified herein are eligible for ENERGY STAR certification, with the exception of products described below.

Excluded Products: Products covered under other ENERGY STAR products specifications



# Levels – Washer Function

Capacity Range	Version 1.0 ENERGY STAR Draft 1 Minimum IMEF	Version 1.0 ENERGY STAR Draft 1 Maximum IWF	Minimum DOE IMEF (2018 Standard)	Maximum DOE IWF (2018 Standard)
Front Loading (> 2.5 cu-ft)	2.92	3.00	1.84	4.70
Top Loading (> 2.5 cu-ft)	2.20	3.70	1.57	6.50
Small (≤ 2.5 cu-ft)	2.20	3.70	1.84	4.70



# Levels – Dryer Function

Product Category	Current DOE Standards	Draft 1 Version 1.0
Vented Gas	3.30	3.65
Ventless or Vented Electric, Standard (4.4 cu-ft or greater capacity)	3.73	5.20
Ventless or Vented Electric, Compact (120V) (less than 4.4 cu-ft capacity)	3.61	6.30
Ventless or Vented Electric, Compact (240 V) (less than 4.4 cu-ft capacity)	2.55	5.50



# Savings and Payback – Combined Laundry Products

- Energy and water consumptions and savings for combined laundry products mirror that of the tables in previous slides for washers and dryers
  - The energy/water consumptions and savings for combined laundry products depend on washer product type and the dryer product type.
- Payback for combined laundry products mirror that of the tables in previous slides for washers and dryers



# Meeting Agenda

Time	Topic
1:00-1:10	Background
1:10-1:40	Clothes Dryers <ul style="list-style-type: none"><li>- Drivers</li><li>- Market Assessment</li><li>- Scope</li><li>- Proposed Levels and Pass Rates</li><li>- Savings and Payback</li></ul>
1:40-2:10	Clothes Washers <ul style="list-style-type: none"><li>- Drivers</li><li>- Market Assessment</li><li>- Scope</li><li>- Proposed Levels and Pass Rates</li><li>- Savings and Payback</li></ul>
2:10-2:40	Combined Laundry Products <ul style="list-style-type: none"><li>- Drivers</li><li>- Scope</li><li>- Proposed Levels</li></ul>
2:40-2:50	<b>Request for Feedback</b>
2:50-3:00	Timeline and Open Discussion

# Webinar Wrap-up and Comment Deadline

- EPA appreciates the opportunity to discuss the Draft 1 with stakeholders today
- Comments are due on **February 14, 2025**
- Please send all comments to:

[appliances@energystar.gov](mailto:appliances@energystar.gov)

Unless commenters indicate that written feedback is confidential, all comments will be posted on the [Clothes Dryer](#) and [Clothes Washer](#) webpages.



# Meeting Agenda

Time	Topic
1:00-1:10	Background
1:10-1:40	Clothes Dryers <ul style="list-style-type: none"><li>- Drivers</li><li>- Market Assessment</li><li>- Scope</li><li>- Proposed Levels and Pass Rates</li><li>- Savings and Payback</li></ul>
1:40-2:10	Clothes Washers <ul style="list-style-type: none"><li>- Drivers</li><li>- Market Assessment</li><li>- Scope</li><li>- Proposed Levels and Pass Rates</li><li>- Savings and Payback</li></ul>
2:10-2:40	Combined Laundry Products <ul style="list-style-type: none"><li>- Drivers</li><li>- Scope</li><li>- Proposed Levels</li></ul>
2:40-2:50	Request for Feedback
<b>2:50-3:00</b>	<b>Timeline and Open Discussion</b>



# Timeline

Event	Date
Draft 1 Version 2.0/9.0/1.0 Specification	January 15, 2025
Draft 1 Version 2.0/9.0/1.0 Webinar	February 5, 2025
Draft 1 Comments Due	February 14, 2025
<i>Release Draft 2 of Specification*</i>	<i>Q2, 2025</i>
<i>Publish Final Draft Specification</i>	<i>Q2, 2025</i>
<i>Publish Final Version 2.0/9.0/1.0 Specification (Effective Date is 9 months after the published date)</i>	<i>Q2/Q3, 2025</i>

*\* If needed*

# Open Discussion



Thank you!