

BUILDING TECHNOLOGIES PROGRAM

U.S. DEPARTMENT OF
ENERGY | Energy Efficiency &
Renewable Energy



Energy Conservation Program for
Consumer Products and Commercial
and Industrial Equipment

AHAM Webinar on
Refrigerator and Freezer
Early Compliance
December 9, 2013

- DOE requires that, before distributing in commerce any basic model of a covered product, the manufacturer must submit to DOE a report certifying that each basic model meets the applicable energy conservation standard (10 CFR 429.12(a))
- To accomplish this, manufacturers must:
 - Test a sample of no fewer than 2 units of each basic model in accordance with the prescribed DOE test procedure in the appendices to subpart B of 10 CFR part 430
 - Apply the DOE sampling statistics specific to the product being tested as found in sections 429.14 through 429.54 of 10 CFR part 429 to determine the rated value of energy use
 - Report the certified rating of each basic model to DOE using CCMS
- Manufacturers may have a third-party, such as a test laboratory, submit certifications on their behalf, as long as that third-party has been authorized to do so by the manufacturer.

- Certification requirements are in the following locations:
 - General requirements applicable to all products: 10 CFR 429.12
 - Certification requirements specific to refrigerators, refrigerator-freezers, and freezers: 10 CFR 429.14
 - Paragraphs 429.14(b)(2) and 429.14(b)(3) list the specific information that must be reported to DOE in a certification of compliance
 - The CCMS templates contain fields for all items required in these sections
- Early compliance requirements:
 - Per guidance issued by DOE on June 29, 2012, manufacturers may use an amended test procedure to certify products prior to the compliance date. (see http://www1.eere.energy.gov/buildings/appliance_standards/pdfs/tp_faq_2012-06-29.pdf)
 - Per a July 23, 2013 FTC rule, refrigerators and freezers manufactured after January 1, 2014 may be labeled using results from the new DOE test procedure (see <http://www.ftc.gov/os/2013/07/130716energylabelingfrn.pdf>)
 - Because FTC has authorized manufacturers to meet reporting requirements under the labeling rule by reporting to DOE, early reporting to DOE may also begin on January 1, 2014.

- All Testing must be done in accordance with DOE's test procedures as described in the Code of Federal Regulations, which are in subpart B to 10 CFR part 430
- Products to be certified as compliant with the standards applicable to products manufactured prior to September 15, 2014 (i.e., the current standards):
 - Must be tested using **Appendix A1 or B1** to Subpart B of Part 430
 - Products may be certified in this manner at any time prior to 9/15/2014.
- Products to be certified as compliant with the standards applicable to products manufactured on or after to September 15, 2014 (i.e., the 2014 standards):
 - Must be tested using **Appendix A or B** to Subpart B of Part 430
 - A product *may* be certified using this procedure prior to 9/15/14, but *must* be certified using this procedure on or after 9/15/14.

- DOE will provide a new CCMS template for products certified using the new test procedure.
 - This template must only be used for products certified using Appendices A/B.
 - The old template must be used for products certified using Appendices A1/B1.
 - At the present time the reporting requirements for the 2014-compliant models will be the same as for current models. The new template will be updated with any new reporting requirements that are added through rulemaking.
- The general CCMS submittal process will not change as a result of the new standards and test procedure.
- The CCMS database website will have separate listings of products certified to the new standards and products certified to the old standards.
- Representations of the energy use of a basic model on labels, in advertising, or in any other location ***must match*** the value that is certified to DOE

- All units manufactured on or after September 15, 2014 must be compliant with the amended standards to be legally distributed in commerce
- Per EPCA and the CFR, the term “manufacture” means to manufacture, produce, assemble, or import. (42 U.S.C. 6291(10) and 10 CFR 430.2)
 - For units manufactured in the United States, compliance with the standard is based on *the date of manufacture*.
 - For units manufactured outside the United States, compliance with the standard is based on *the date of import*, which is the date on which the unit is admitted into the customs territory of the United States.
 - Imported units that do not clear customs prior to the compliance date may not be sold in the U.S. if they do not comply with the new standard, even if they were manufactured prior to the compliance date.
- Units that do not meet the amended standards may be sold after the compliance date (i.e., after 9/15/2014) until stock is exhausted as long as they were manufactured in the U.S. prior to the compliance date or imported into the U.S. prior to compliance date.

Submit a Question:	<ul style="list-style-type: none">• DOE Guidance Website: http://www.eere.energy.gov/guidance/default.aspx?pid=2&spid=1 or email questions to EERE_ACES@ee.doe.gov• Lucas Adin: Lucas.adin@ee.doe.gov
Request a Test Procedure Waiver:	<ul style="list-style-type: none">• DOE's regulations allow manufacturers to apply for a waiver when a manufacturer determines that a given basic model contains one or more design features that prevent testing in accordance with DOE's test procedure.• Email: AS_Waiver_Requests@ee.doe.gov
File a Complaint:	Email: energyefficiencyenforcement@hq.doe.gov . The Office of Enforcement will protect the identity of complainants to the maximum extent permitted by law.
DOE's Certification, Compliance, and Enforcement Website:	http://www.eere.energy.gov/buildings/appliance_standards/certification_enforcement.html
DOE's Online Certification System:	https://www.regulations.doe.gov/ccms/
Enforcement Information:	http://gc.doe.gov/energy_efficiency_enforcement.htm



FTC Labeling – Recent Requirements

- **Early Transitional EnergyGuide labels for refrigerators and clothes washers**
 - Jan. 1, 2014 – Refrigerators
 - June 1, 2014 – Clothes Washers
- **Online labels for manufacturers**
- **Label disclosures for online retailers**

Transitional Label

U.S. Government

Federal law prohibits removal of this label before consumer purchase.

ENERGYGUIDE

Refrigerator-Freezer

- Automatic Defrost
- Side-Mounted Freezer
- Through-the-Door Ice

XYZ Corporation

Model ABC-L

Capacity: 23 Cubic Feet

Compare ONLY to other labels with yellow numbers.
Labels with yellow numbers are based on the same test procedures.

Estimated Yearly Energy Cost

\$51

Cost range not available

425 kWh

Estimated Yearly Electricity Use

- Your cost will depend on your utility rates and use.
- Cost range based only on models of similar capacity with automatic defrost, side-mounted freezer, and through-the-door ice.
- Estimated energy cost based on a national average electricity cost of 12 cents per kWh.



ftc.gov/energy

Federal Trade Commission



Transition to ENERGY STAR® Refrigerator/Freezer Version 5.0

Amanda Stevens, US EPA

December 2013



Learn more at energystar.gov

Overview



- The ENERGY STAR Version 5.0 Refrigerator and Freezers Specification is effective **September 15, 2014**
- Spec highlights:
 - Approximately 10% energy savings relative to new DOE 2014 standard
 - Optional ‘connected’ criteria
- Especially for 2014 transition year, the ENERGY STAR mark will be a helpful tool for consumers to easily distinguish the most energy-efficient models.



Specification Transitions

- EPA shares its partners' desire for a smooth transition from one ENERGY STAR specification to the next
- EPA provides partners with 9 months between the completion of a specification and its implementation date to allow for transition of collateral material
 - For R/F, there is a longer transition period, since effective date aligns with new DOE standard.
- EPA also intends for this period to allow models that will not meet the new requirements to transition off the shelves
 - Consumers purchase ENERGY STAR labeled products, expecting that they meet the latest requirements

Specification Transitions (con't)



- With this in mind, EPA has established the following timeline:
 - Effective immediately after a spec is final, manufacturers can elect to have CB certify eligible products to the new version
 - Typically, approximately 4-5 months before the new specification becomes effective, CBs are instructed to no longer certify product submittals to older specification. (Reminders shared with CBs and manufacturers.)
 - EPA will share with retail partners a list of products that meet new specification in advance of the effective date

R/F Version 5.0 Transition Timeline



- Manufacturers can elect to have CBs certify products to the V5.0 specification
- On **January 1, 2014** CBs are instructed to stop certifying new products submitted to V4.1
 - Existing products certified to ENERGY STAR under V4.1 will remain valid until September 15th
- Refrigerators or freezers manufactured as of **September 15, 2014** must meet the V5.0 requirements to bear the ENERGY STAR mark.

Why Share ENERGY STAR Products Datasets?



- Serves all ENERGY STAR stakeholders
 - The public (consumers)
 - Manufacturers
 - Retailers
 - Energy efficiency program sponsors
 - Third parties/app developers helping consumers find energy efficient products online
- Helps
 - **Promote** ENERGY STAR certified products
 - **Demonstrate** products are ENERGY STAR
 - **Find & Compare** ENERGY STAR products, energy use, and performance

ENERGY STAR Product Finder: Overview



Process

- Objective: collect information in a more uniform way across all product categories
- CBs share information with EPA via XML on a rolling basis (2 day processing time)
- EPA updates datasets for stakeholders daily

Experience

- One portal where stakeholders access all certified product datasets
- Enhanced product search
 - Advanced search capability for partner/program administration purposes
 - Updated and more comprehensive consumer-oriented tool for finding ENERGY STAR products

ENERGY STAR Product Finder: Consumer Search Tool



Provides easy access to key features and performance of efficient products

The screenshot shows the ENERGY STAR Certified Residential Refrigerators search results page. The interface includes a navigation bar with links for 'ENERGY EFFICIENT products', 'ENERGY SAVINGS at home', 'ENERGY EFFICIENT new homes', and 'ENERGY STRATEGIES FOR buildings & plants'. A search bar and a 'Sort by' dropdown menu are visible. The main content area displays a list of refrigerators with their model numbers, types, and energy performance metrics. Callouts highlight key features: 'Compare Products' points to the 'Compare' button; 'Filter by Key Features' points to the filter sidebar; 'Link to Full Dataset' points to the 'Link to Full Dataset' button; 'Sort function' points to the 'Sort by' dropdown; and 'New search functionality for finding specific models' points to the search bar.

Model	Type	Capacity (cu. ft.)	Annual Energy Use (kWh/yr)	% Less Energy Use than the US Federal Standard
LG - LFX28991**	Bottom Freezer	27.6	451	36
Samsung - RF261BIAESR	Bottom Freezer	25.5	398	34
Samsung - RF263B*AE**	Bottom Freezer	25.6		

