



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

OFFICE OF
AIR AND RADIATION

November 27, 2017

Dear ENERGY STAR® Residential Boiler Brand Owner or Other Interested Party:

The U.S. Environmental Protection Agency (EPA) regularly reviews ENERGY STAR product specifications to ensure that the ENERGY STAR mark remains relevant in the marketplace and continues to offer meaningful energy and cost savings to consumers. The purpose of this letter is to communicate the results of a review EPA recently completed for ENERGY STAR certified boilers.

The ENERGY STAR Version 3.0 Residential Boiler Specification has been in effect since October 1, 2014. Key findings associated with EPA's review include:

- As of 2016, annual shipments of ENERGY STAR certified boilers have reached approximately 129,000, representing about 42% of U.S. sales.
- ENERGY STAR market share for boilers remained steady between 2015 and 2016, and year-to-year increases have historically been limited.
- Availability of market-ready, advanced technology options capable of meeting a more stringent AFUE is limited, and the options that are available are costly relative to the utility bill savings they provide.
- While DOE has finalized new boiler efficiency standards, with a compliance date in 2021, they are less stringent than the current ENERGY STAR levels. (Note: recent changes to the DOE test method are not expected to affect AFUE ratings, though EPA will expect CBs to have AFUE values truncated to the tenth of a percentage point. This change is not expected to affect the certification status of any boilers, as product performance is compared to the specification limit before any rounding.)

Given the current market conditions, EPA has opted not to pursue a revision of the ENERGY STAR boiler specification at this time but will continue to monitor the marketplace. Stakeholders are encouraged to keep EPA informed of any new technology developments or market shifts toward higher efficiency. In particular, EPA is interested in control technologies that facilitate condensing boiler operation in condensing mode as much as possible, and other measures that may aid system efficiency.

Thank you for your continued support of the ENERGY STAR program. If you have any questions or feedback, please direct them to Abigail Daken at EPA, Daken.Abigail@epa.gov or 202-343-9375, and Jacob Bayus at ICF, Jacob.Bayus@icf.com or 202-791-8871.

Sincerely,

A handwritten signature in black ink, appearing to read "Abigail Daken". The signature is fluid and cursive, with the first name being more prominent.

Abigail Daken
U.S. Environmental Protection Agency
ENERGY STAR HVAC Program