

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



**OFFICE OF AIR  
AND RADIATION**

July 18, 2017

Dear ENERGY STAR® Televisions Partner or Other Interested Stakeholder:

The U.S. Environmental Protection Agency (EPA) is pleased to share with you the Final Draft Version 8.0 ENERGY STAR TVs specification. The attached document outlines the eligibility criteria for TVs under ENERGY STAR Version 8.0. EPA would like to thank the many stakeholders who have invested time and effort over the past few months to contribute feedback that has informed this product specification process. The effective date of this ENERGY STAR TV specification will be April 16, 2018.

EPA received multiple sets of comments on Draft 2, many generally supportive and others requesting revision to specific elements of the proposal. EPA considered all comments carefully and responds to each in the accompanying Comment-Response Document. Highlights are provided below.

**Software Updates**

Multiple stakeholders raised concerns about software updates at initial set up that may impact a TV's energy consumption, such that it would no longer meet the power consumption requirements. In response, EPA has added language that makes explicit the expectation that TVs meet requirements following these software updates.

**Automatic Brightness Control (ABC)**

A number of comments on Draft 2 related to the implementation of ABC, which is optional for product certification. Some stakeholders asked that EPA require that TVs choosing to certify with ABC enabled maintain it in all picture settings. Another stakeholder asserted that manufacturers would lose the ability to provide differentiation in picture settings if ABC were enabled in each. EPA considered these competing comments and has retained the Draft 2 requirement that TVs certifying with ABC enabled maintain it in all but one setting if they have up to four settings and in all but two settings if they have more than four settings. EPA notes that certification with ABC is optional, and the Agency has not prescribed how to implement ABC in each setting, only that it be maintained in the setting. Also related to ABC, numerous stakeholders supported EPA's Draft 2 proposal that TVs meet 125 nit brightness at 3 lux. Others, however, asked that EPA reduce this brightness or prescribe a ratio based on the brightest selectable preset picture setting. EPA has evaluated these comments and accompanying data and found that the data provided was not comparable to the industry accepted Imaging Science Foundation field research reflecting consumer preferences or to additional data sources consulted, and thus did not justify lowering the screen brightness requirement.

**Other Energy Saving Features**

EPA received comments on the proposal to prohibit products from being certified with features enabled unless they deliver energy savings comparable to those reflected during testing. EPA understands that some manufacturers may have an interest in continuing to certify products with features such as motion detection dimming. Since the release of Draft 2, EPA has some

indication that the implementation of motion detection dimming has improved in 2017 models. EPA encourages manufacturers to share additional data to help improve understanding of such energy savings features across different content. As with ABC, where its energy savings potential has been demonstrated and widely accepted by stakeholders, once energy savings of this feature is well understood, EPA will be in a better position to encourage its use.

Any comments on the Final Draft specification should be submitted no later than **August 2, 2017**. Please send comments via e-mail to [televisions@energystar.gov](mailto:televisions@energystar.gov). All comments received will be posted to the ENERGY STAR Product Development website, unless the submitter specifically requests otherwise.

The exchange of ideas and information between EPA, industry, and other interested parties is critical to the success of ENERGY STAR. To track EPA's progress in revising the ENERGY STAR TV products specification and to review comments, please visit the Product Development Web site at [www.energystar.gov/RevisedSpecs](http://www.energystar.gov/RevisedSpecs) and click on "Version 7.0" under "In development" under "Televisions."

Thank you for taking the time to review these materials. Please contact me at [Radulovic.Verena@epa.gov](mailto:Radulovic.Verena@epa.gov) or (202) 343-9845 with any questions or concerns. For any questions related to the test method for ENERGY STAR products, please contact Jeremy Dommu at [Jeremy.Dommu@ee.doe.gov](mailto:Jeremy.Dommu@ee.doe.gov) or (202) 586-9870.

Best Regards,



Verena Radulovic, Product Manager  
ENERGY STAR for Consumer Electronics

Enclosures:  
Final Draft Version 8.0 ENERGY STAR Televisions Products Specification  
Draft 2 Version 8.0 Comment-Response Document