

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



**OFFICE OF  
AIR AND RADIATION**

January 20, 2022

Dear ENERGY STAR® TV Partner or Other Interested Stakeholder:

With this letter, the U.S. Environmental Protection Agency (EPA) is pleased to share the [ENERGY STAR Final Version 9.0 TVs Specification](#). EPA would like to thank the many stakeholders who have invested time and effort to contribute feedback that has informed this specification revision process.

Version 9.0 requirements will become effective on October 20, 2022. Televisions certifying for ENERGY STAR under the Version 9.0 specification will offer consumers a savings of more than 34% over a conventional model. This specification:

- Requires use of the ANSI/CTA-2037-C test method which utilizes camera equipment to measure light averaged across the entire screen during dynamic video play, resulting in a new metric called Dynamic Luminance
- Establishes performance-based criteria to encourage more efficient product design through the adoption of efficient components (e.g., LEDs, films, power supplies, etc.) and energy saving features (e.g., local dimming)
- Evaluates TV performance in three different preset picture settings
- Evaluates standby power in a more typical network environment (e.g., multicast traffic on the network) and with smart wake features enabled to encourage efficient integration with smart speakers and mobile device casting applications

If all televisions in the United States met these new requirements, the energy cost savings would grow to more than \$1.8 billion each year and more than 27 billion pounds of greenhouse gas emissions would be prevented.

This specification was developed through a process that included release of three draft specifications and one limited topic proposal, along with multiple stakeholder meetings and input from stakeholders. Stakeholder comments, previous drafts of the specification, and related materials are available on the [ENERGY STAR Televisions Version 9.0 Specification Development webpage](#).

EPA received several stakeholder comments in response to the Final Draft specification:

- Several stakeholders supported the Version 9.0 requirements, noting that the updated criteria will be more representative of average consumer use of the latest television technology. Specifically, stakeholders supported the revised HCR definition and alignment with the ANSI/CTA-2037-C test method.
- One stakeholder suggested reviewing additional HCR model data to determine if the HCR adjustment factor should be reduced. EPA reviewed the full data set of 12 HCR models, which demonstrated a 25% pass rate of HCR-capable TVs. Based on this data, EPA believes the adjustment factor reflects the intention to recognize the top-performing HCR models.
- A stakeholder proposed the use of weighted On Mode metrics that factor in the typical usage of each preset picture setting based on recent survey data. EPA appreciates this additional information and understands the merits of this suggestion to improve representativeness of how

the TV is being used. However, this suggestion warrants further research and investigation. EPA included this in the Considerations for Future Revisions section of the specification.

EPA also summarizes these comments and the Agency's responses in the enclosed [comment response document](#). EPA has made modest clarifying edits to the final specification to ensure consistency with the final ANSI/CTA-2037-C test method.

### **Timeline and Next Steps**

EPA shares partners' desire for a smooth transition from one ENERGY STAR specification to the next, so that consumers can expect ENERGY STAR labeled products to fully meet the latest requirements upon their effective date. With this in mind, EPA has established the following timeline:

- Effective immediately, manufacturers may elect to have their Certification Body (CB) certify their eligible products to the Version 9.0 requirements.
- As of June 2, 2022, CBs will be instructed to stop certifying new product submittals to Version 8.0. Note, however, that existing certifications will remain valid for purposes of ENERGY STAR qualification until October 20, 2022.
- Any television manufactured as of October 20, 2022, must meet Version 9.0 requirements to bear the ENERGY STAR mark. All certifications of products to the Version 8.0 specification will be invalid for purposes of ENERGY STAR qualification and the product finder will only include models certified to Version 9.0.

ENERGY STAR partnership as a manufacturer is limited to organizations that own and/or license a brand name under which they sell eligible products in the United States and/or Canada. Partnership is not available to original equipment manufacturers (OEMs) that do not sell directly to consumers or end users. OEMs may certify products on behalf of the ENERGY STAR brand owners/licensees; however, the brand owner must be the ENERGY STAR partner associated directly with the certified product models, since only partners are authorized to use the ENERGY STAR certification mark.

Please contact me at (202) 564-8538 or [Kwon.James@epa.gov](mailto:Kwon.James@epa.gov), or Emmy Feldman at (202) 862-1145 or [Emmy.Feldman@icf.com](mailto:Emmy.Feldman@icf.com), with questions.

Thank you for your continued support of ENERGY STAR.

Best Regards,



James Kwon, EPA Product Manager  
ENERGY STAR for Consumer Electronics

Enclosures:

[ENERGY STAR Final Version 9.0 Televisions Specification](#)

[ENERGY STAR Final Version 9.0 Televisions Data Package](#)

[ENERGY STAR Version 9.0 Televisions Final Draft Specification Comment Response Document](#)