

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



OFFICE OF
AIR AND RADIATION

August 26, 2016

Dear Electric Vehicle Supply Equipment Brand Owner or Other Interested Party:

The U.S. Environmental Protection Agency (EPA) welcomes your input on the ENERGY STAR Draft 2 Version 1.0 Specification for Electric Vehicle Supply Equipment (EVSE) and Final Draft Test Method. This letter explains updates to the specification criteria and minor changes to the test method in response to stakeholder feedback on the Draft 1 specification and Draft 3 Test Method.

Draft 2 EVSE Specification

This Draft 2 Version 1.0 specification proposes revised energy efficiency criteria for non-active modes and modifications to the definitions and DR capability:

- **Definitions:** Due to stakeholder requests for clarification of the definitions of the vehicle-EVSE interface states, EPA is referencing the related SAE J1772 definitions for each state (States A, B1, B2, and C) within the modal definitions to translate how each Mode relates to industry-accepted state definitions for other components of the EV system.
- **Partial On and Idle Modes:** In response to stakeholder feedback that the Draft 1 dataset did not provide an adequate number of models to propose requirements for Partial On and Idle Modes, EPA tested an additional 11 models to create an expanded dataset representing a larger share of the current EVSE market. Products from 5 manufacturers meet EPA's proposed criteria in Draft 2.
- **Auto Power Down (APD):** EPA received substantial stakeholder feedback that an EVSE can only power down to a lower power state after the EV has released the connection to the EVSE such that current no longer passes through. As such, EPA is removing APD as a requirement. Rigorous Partial On levels will ensure non-essential features are powered down.
 - **Final Draft EVSE Test Method** With the removal of the APD requirements in the specification, EPA also removed the test procedure for measuring impact from APD. Instead, EPA proposes a two-minute delay before testing the maximum Partial On Mode power to ensure that the EVSE has already transitioned to a low power state.
- **Demand Response:** Based on stakeholder feedback, EPA has clarified that only products qualifying to ENERGY STAR that wish to be designated as having connected functionality in the ENERGY STAR product finder must meet the connected criteria. Products that either currently deliver or are capable of delivering DR capability may be

listed. DR capability must enable consumer override, with the acknowledgment that certain DR programs may need to limit this feature.

- **General:** EPA received feedback from stakeholders that products that do not adhere to safety standards may demonstrate lower power consumption, given differences in how the products are constructed. Further, EPA understands that the EVSE market has not universally adhered to safety standards. To offset any incentive for product manufacturers to forgo safety standards in the interest of saving energy, EPA proposes that EVSE manufacturers report which safety standards are met so this information can be shared with potential purchasers as part of the ENERGY STAR product finder.

Certification Requirements

To ensure consumer confidence in the ENERGY STAR label and to protect the investment of ENERGY STAR partners, EPA requires all ENERGY STAR products to be third-party certified. Products are tested in an EPA-recognized laboratory and reviewed by an EPA-recognized certification body before they can carry the label. For more information on EPA's third-party certification process, visit www.energystar.gov/3rdpartycert.

Upcoming Webinar

The exchange of ideas and information between EPA, industry, and other interested parties is critical to the success of ENERGY STAR. Stakeholder participation is key to the ENERGY STAR specification development process and is strongly encouraged. EPA plans to hold a webinar on **Thursday, September 15, 2016** to discuss the Final Draft Test Method and Draft 2 Specification. To participate in this webinar, please [register](#) prior to this date and time.

Submitting Feedback

Stakeholders are encouraged to submit any feedback to EPA on the Final Test Method and Draft 2 Specification **no later than Monday, September 26**. Comments should be submitted to EVSE@energystar.gov. All documents related to this specification development are posted on the [ENERGY STAR EVSE product development page](#).

If you have any questions about the ENERGY STAR program and this effort in particular, please contact me at Radulovic.Verena@epa.gov and (202) 343-9845 or Matt Malinowski, ICF International, at Matt.Malinowski@icfi.com and (202) 862-2693. Thank you for your support of ENERGY STAR. I look forward to continue working with you during the specification development process

Sincerely,



Verena Radulovic, Product Manager

Enclosures:

Draft ENERGY STAR EVSE Partner Commitments

Draft 2 ENERGY STAR Specification for EVSE

Draft 2 EVSE Specification Data Analysis

Draft 3 ENERGY STAR Test Method and Draft 2 Specification for EVSE Comment-Response Document
Final Draft ENERGY STAR Test Method for EVSE