

# ENERGY STAR<sup>®</sup> Medical Imaging Equipment

## Draft 1 Specification

Stakeholder Meeting

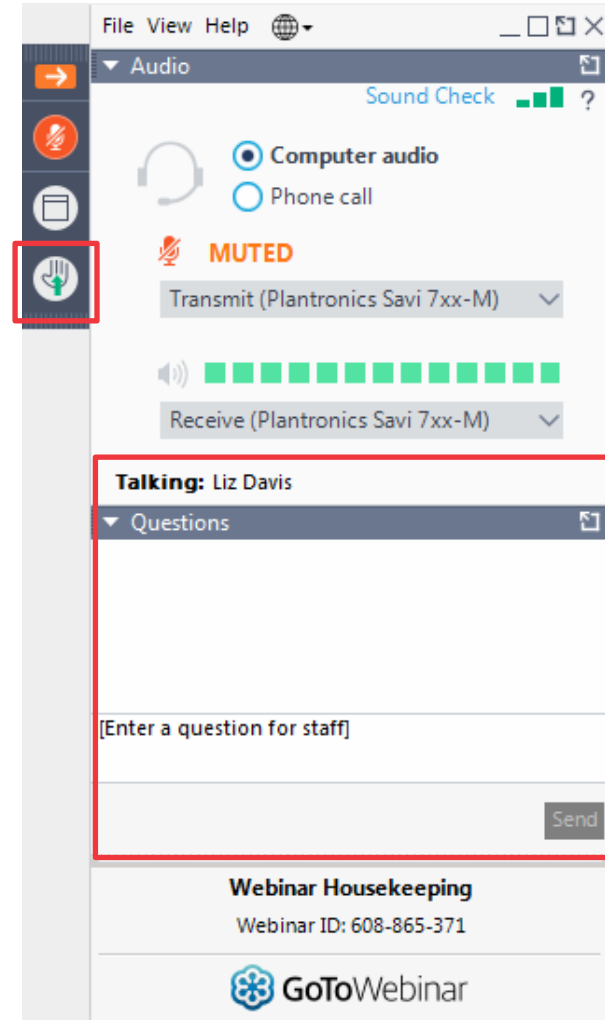
June 14, 2023



## Webinar Participation

- Please mute yourself when you are not speaking (use local mute or dial \*6)
- Feel free to ask questions at any time

Submit written comments to  
[medicalimaging@energystar.gov](mailto:medicalimaging@energystar.gov) by  
**July 7, 2023**





## Meeting Agenda

1. Introductions
2. Definitions
3. Scope
4. Certification Criteria
5. Testing Considerations
6. Timeline and Next Steps



## Introductions

**Ryan Fogle, EPA**

[Fogle.Ryan@epa.gov](mailto:Fogle.Ryan@epa.gov)

**John Clinger, ICF**

[John.Clinger@icf.com](mailto:John.Clinger@icf.com)

**Jeremy Domm**

[jeremy.domm@ee.doe.gov](mailto:jeremy.domm@ee.doe.gov)

# ENERGY STAR Specification Development Process





## Definitions - General

- EPA did not receive specific feedback on ways to update the existing definitions that EPA is referencing.
  - As such, EPA has retained these definitions in Draft 1.
  - EPA remains open to adjusting definitions as needed in Draft 2 if additional feedback is provided with the suggested edits along with justification for them.
- In addition, EPA has noted that some definitions in the scope exclusion section are not currently defined in the specification.
  - EPA encourages stakeholders to provide any industry accepted definitions that may exist to help define these excluded categories to help certification bodies clearly identify products that are in and out of scope.



## Definitions – Product Family

- EPA has also proposed a definition for product family, a concept often used in ENERGY STAR specifications to reduce testing burden and reporting complexity for model lines with many individual unique models.
  - EPA welcomes feedback on whether the characteristics identified in the Draft 1 specification proposal sufficiently cover differences in product lines that do not notably alter the product's function and/or energy use.
  - There are instances in which energy use variation can be permissible within a product family so long as the model tested for ENERGY STAR certification, also known as the representative model, is the highest energy consuming model within the product family.



## Scope - Inclusions

- EPA received stakeholder feedback that it should only focus on one product area in Version 1.0, but this feedback didn't specify *which* product category to focus on nor provide a full explanation of why products currently covered by COCIR aren't appropriate to be covered by this specification.
  - As a result, EPA continues to propose broad requirements across the categories listed in both COCIR and the proposed ENERGY STAR scope to highlight products with effective power management capabilities.
  - These requirements only apply during non-active product operation and therefore have no impact on patient care.





## Scope - Exclusions

- EPA received stakeholder feedback supporting the removal of Cyberknife and Linear Accelerators from scope that was initially proposed in the discussion guide.
- Stakeholders also requested that combined modality products be removed from scope, which EPA is proposing to accept given their added complexity.
  - EPA remains open to reviewing and considering these products in the future if further interest and test method development allows.



## Certification Criteria

- EPA has proposed four key requirements for certification that center around the availability and accessibility of functional power management. These include:
  1. Product power management: Ability of product to auto power down to a lower power mode (at least 20% reduction in energy use) within 30 minutes after reentering ready to scan mode.
    - Products are encouraged to enter any even lower power modes after any inactivity lasting 1 hour or longer if available.
  2. Computing power management: Any computing products sold with the medical imaging product must enter low power or sleep mode within 30 minutes of inactivity.
    - This aligns with existing certification criteria for ENERGY STAR computers, but acknowledges that some hardware sold with these products may be custom in nature so ENERGY STAR certification of them is not possible.



## Certification Criteria

3. Display power management: Any external displays sold with the medical imaging product must enter low power or sleep mode within 30 minutes of inactivity.
  - This aligns with existing certification criteria for ENERGY STAR displays, but acknowledges that some hardware sold with these products may be custom in nature so ENERGY STAR certification of them is not possible.
4. Power management availability and reporting: All power management features applicable in #1-3 above must be enabled as-shipped. In addition, documentation about power management use must be provided:
  - Through physical or electronic documentation; and
  - A web link on the partner's website that shows power management features of their product



## Testing Considerations

- EPA has clarified that all configurations certified as ENERGY STAR must continue to meet criteria through subsequent firmware, software or other changes to the product.
- DOE has also clarified in the test method document that testing for ENERGY STAR certification must be performed with all applicable power management features enabled.



## Timeline and Next Steps

- EPA continues to work towards completing this specification by the end of 2023.
- EPA is currently planning that the Draft 2 specification is targeted for release in late Q3, with a Final Draft specification in mid Q4 and a final specification in late Q4 of 2023.



## Questions

**Ryan Fogle**

[Fogle.Ryan@epa.gov](mailto:Fogle.Ryan@epa.gov)

202-343-9153

**John Clinger**

[John.Clinger@icf.com](mailto:John.Clinger@icf.com)

215-967-9407

**Jeremy Domm**

[jeremy.domm@ee.doe.gov](mailto:jeremy.domm@ee.doe.gov)

202-586-9870

Stakeholders are encouraged to provide written comments for consideration to [medicalimaging@energystar.gov](mailto:medicalimaging@energystar.gov) by July 7, 2023.