

Energy Saving Product Review Worksheet

Issue, summary of concern and any claims:

- *What problem, concerns or issues does this device solve or address?*
- *How exactly does this system save energy?*

Background

- *What are the operating costs associated with the device?*
- *Describe the manufacturer recommended application(s) for the device?*
- *Where has it been demonstrated successfully?*
- *Describe the type of facilities in which the device or technology can be implemented?*
- *Describe any manufacturer performance guarantees and/or warranties.*

Energy efficiency and generation claims

- *In detail, describe the normal sequence of operation of the existing system or device that is modified by the proposed system.*
- *In detail, describe the normal sequence of operation of the device.*
- *Select the energy savings that this device provides:*
 - Reduces the connected capacity of a load on a system.*
 - Reduces system errors or waste.*
 - Reduces the run time of a system/device through system controls.*
 - Increases the per unit efficiency of a device.*

 - Modifies an existing system to increase system efficiency.*
 - Implements lightweight or composite materials to reduce energy costs.*
 - Implements alternative energy solutions.*

 - Shift of process to off-peak hours.*
 - An increase in process throughput or a decrease in process time.*
- *Describe how the system performs in various operating conditions.*
- *Show the calculations and/or diagrams which demonstrate/prove energy savings.*
- *Describe a typical systems financial benefit, or simple payback, using the first cost divided by the first year energy cost savings.*

Independent certifications

- *Has the system received any product certifications? If so, check all that apply.*
 - ARI (Air-Conditioning and Refrigeration Institute)*
 - FCC (Federal Communications Commission)*
 - IEEE (Institute of Electrical and Electronics Engineers)*
 - NEC (National Electrical Code)*
 - NEMA (National Electric Manufacturers Association)*
 - NFRC (National Fenestration Rating Council)*
 - UL (Underwriter's Laboratories)*

- ANSI (American National Standards Institute)*
- ASTM (American Society for Testing Materials)*
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- *Are any applications for product testing or certification pending? If so, check all that apply.*

Testing Standard

- ARI (Air-Conditioning and Refrigeration Institute)*
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- *Has the device ever failed a certification test? If yes, give the name and contact information for the test facility.*

Energy savings performance evaluation by an independent third party

- *What nationally required test methods apply to this system?*
- *Have any tests of the device undergone a peer review?*
- *Who conducted the field test or independent lab tests? (Please provide peer contact information and/or lab contact information below.)*
- *If there are not any nationally recognized test standards for the device, describe the testing conditions prescribed by the testing body or independent association.*
- *Describe any test conditions prescribed by the manufacturer.*
- *Describe how the test conditions were similar to the normal sequence of operation described above.*
- *What standards were used for testing the device?*

Testing Standard

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- NEMA (National Electric Manufacturers Association)*
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- UL (Underwriter's Laboratories)*
- SAE (Society of Automotive Engineers)*
- ANSI (American National Standards Institute)*
- ASTM (American Society for Testing Materials)*
- Other*

- *What facility conducted certification testing?*
 - Destuch Operational Tests?*
 - UL (Underwriter's Laboratories)*
 - NFRC (National Fenestration Rating Council)*

- Intertech Testing Services*
- Other*

- *How is the facility accredited?*
 - NVLAP (National Voluntary Laboratory Accreditation Program)*
 - ETL Testing Laboratories*
 - Other*