

Attachment 1:

Proposed Revisions to the Technical Resource Manual and Deemed Savings Table

- This Attachment describes proposed revisions to the Technical Resource Manual (TRM) and Deemed Savings Table. These documents were submitted as part of the Ameren Missouri 2025-2027 MEEIA Cycle, as Appendix F (Deemed Savings Table) and Appendices G, H, I (TRM Volumes 1-3), on January 30, 2025 in EO-2023-0136 and approved on April 9, 2025.

The purpose of this update is to:

- Incorporate Evaluation, Measurement, & Verification (EM&V) results from PY2024.
- Add variations of existing measures to capture historical baseline and/or SEER combinations, including nine Air Source Heat Pump (ASHP) multi-family (MF) measures and two MF Air-Conditioning (AC)/ heat pump tune-up options.
- Clean-up identified inconsistencies or slight modifications found in recent TRM efforts.

A description of these changes is provided below. The measure changes have been analyzed for cost effectiveness. To aid in Stakeholder review, all updates are included in the TRM and Deemed Savings table in track changes with redlines. Within the Microsoft Excel workbook that serves as the basis for the Deemed Savings tables, this includes:

- New changes included in red text.
- Modifications to existing text in red and strikethrough (~~change~~).
- A revision change log included in columns "V" through "YY" denoted input values by applicable revision date.

Revisions based on PY2024 Results:

Updated to reflect plan year 2024 evaluations results, as provided by ADM Associates. Applicable input values have been updated within the MEEIA 2025-27 Deemed Savings Table (Appendix F) and corresponding TRM (Appendices G, H, & I). Examples include updates to items such as the following:

- Update various inputs to the engineering algorithms used by the evaluator to calculate first year savings and based upon program tracking data and surveys. Examples of these updates include variables such as Hours of Use (HOU) for commercial lighting, residential & commercial heating and cooling capacities/efficiencies, and results of the analysis of AMI data for residential DR energy and demand savings.
- Modify Income-Eligible (IE) tune-up measure naming conventions to clearly identify tune-ups with refrigerant charge vs refrigerant check and clean up inputs based upon feedback from the evaluator. Added two MF options of existing measures for consistency across the air conditioner and heat pump tune-up measure options.
- Update/add SEER values for commercial "single package or split AC_DX>760BTU" based on PY2024 program data from ADM.

New Measures/Updates to Existing Measures

- Add custom measure ID for PAYS program for implementation tracking & reporting.
- Add persistence factor input to dirty filter alarms.
- Update select SEER & HSPF values for geothermal & ASHP.
- Add nine multi-family ASHP measures based on PY2024 program data to fill gaps of SEER and baseline specific equipment present in a single-family (SF) option.

- Add Electric Vehicle Charging measure for Residential Demand Response.

Clean-up items

- Clean up naming conventions to consistently identify all instances of smart/learning/advanced thermostats as "smart thermostats" throughout Appendices F, H, & I. Some basic "programmable" thermostat options remain for IE offerings where wi-fi and internet may not be available.
- Clean up the "Program/Channel" designations in Appendix F to better align with implementation. For example: using IE as a channel instead of MF and SF to allow implementers to use a MF measure in place of a SF, where they know the HVAC unit capacity is smaller to improve accuracy of reported savings and avoid creating a large amount of additional SF measures for a slightly different market segment with near identical inputs for energy savings as MF.
- Update ENERGY STAR® references for commercial cooking measures and update/add related source documents.