Memorandum

To: IL TRM stakeholders and interested parties

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subject: IL TRM Version 14.0 – Change impact Summary

date: 06/27/2025

**Cc:** CELIA JOHNSON, SAG

VEIC has now submitted the first draft of the version 14.0 Illinois Technical Reference Manual (TRM) to the Technical Advisory Committee (TAC).

This memo is provided as an aid for the utilities and other TAC participants to help disseminate information on the proposed updates to additional stakeholder groups who may be less involved in the TAC discussions or aware of their potential outcomes. The goal is to promote a wider high-level understanding of the proposed changes that are likely to have the highest impact on a measure’s savings and/or cost effectiveness, or require changes to how measures are implemented, in order that program implementation plans can progress with the awareness of where changes to offerings may occur.

Please note that all changes listed are still in draft and subject to continued change through the remainder of the update process, and additional high impact changes may still arise. However, this early view of the proposed changes will allow any input from the additional stakeholder groups to be provided before final decisions are made, allowing the TAC appropriate time to review, discuss, and reach consensus on the appropriate path forward.

As always, we welcome any feedback to the value of this memo and how its content could be improved to further help get the TRM related information where it needs to be. Please send any comments or questions on the content to [iltrmadministrator@veic.org](mailto:iltrmadministrator@veic.org).

| **Market** | **End Use** | **Measure Name** | **Summary of Impactful Changes** | **Potential Impact** | **Expected Utility Change** |
| --- | --- | --- | --- | --- | --- |
| All | Multiple | ENERGY STAR Programming | The EPA has indicated that the ENERGY STAR program will be ended, although to date no official announcement has been made.  Many measure reference ENERGY STAR as the minimum efficiency specification for eligibility.  In this time of uncertainty, the TAC has decided to add the following language to all measures referencing ENERGY STAR:  *“In the event that the ENERGY STAR program is ended, the last effective ENERGY STAR specification and corresponding Qualified Products List should continue to be used through the effective period of this TRM.”* | No change during 2026 but potential significant changes to program offerings if this comes to fruition. |  |
| Commercial | Multiple | Multiple | The OpenStudio models of commercial buildings used in multiple measures are being reviewed and updated. This work is ongoing and when models are finalized and calibrated, they will be re-run using TMYx climate data and key assumptions updated. | Direction of impact is likely to be variable, however generally expect estimates of cooling loads to increase and heating decrease. |  |
| Commercial | Food Service | ENERGY STAR Dishwasher | Update to measure cost and key assumptions from ENERGY STAR calculator. | Impact varies by unit type. |  |
| Commercial | HVAC | Linkage-Less Boiler Controls for Space Heating | Reduction in savings factor | Decrease in savings |  |
| Commercial | HVAC | Small Commercial Thermostats | Updates to key assumptions based on GDS Baseline Study | Increase in electric savings, decrease in gas savings. |  |
| Commercial | Lighting | Linear Delamping | Reworked measure to remove restriction to only allowing T12 and T8 fluorescent delamping and allow T5 and LED. | New measure opportunity |  |
| Commercial | Lighting | High Performance and Reduced Wattage T8 Fixtures and Lamps  And  T5 Fixtures and Lamps | Measures retired. |  |  |
| Commercial | Compressed Air | Compressed Air Leak Repair | Addition of preferred methodology for estimating CFM leakage based on ultrasonic leak detection decibel readings. | Potential implementation change |  |
| Commercial | Shell | Spring-Loaded Garage Door Hinge | Added algorithms for electric heating. Other updates resulting in savings changes | Impact varies by building type and location. |  |
| Commercial | Miscellaneous | ENERGY STAR Computers | Update to ENERGY STAR v9.0 specification | Increase in savings |  |
|  | | | | | |
| Residential | Multiple | Multiple | Assumption of percentage of homes with cooling has been updated – now significantly higher and varies by market sector.  Efficiency of existing HVAC equipment when unknown updated, depended on market sector. | Higher cooling savings for shell and certain HVAC measures. |  |
| Residential | Appliances | ENERGY STAR Air Purifier/Cleaner | Update to ENERGY STAR Version 3.0 specification and new reduced hours assumption impacting deemed savings. Update to measure costs. | Slight decrease in savings |  |
| Residential | Appliances | ENERGY STAR Dehumidifier | Update to ENERGY STAR Version 6.0 and resulting deemed savings. | Increase in savings |  |
| Residential | Appliances | ENERGY STAR and CEE Tier 2 Room Air Conditioner | Update (increase) to assumption of existing unit efficiency (currently 7.7 EER) for early replacement scenario. New assumption proposed reflects Federal Standard prior to 2014 for IQ participants (9.8 CEER) and 6/2014 – 5/2026 for non-IQ participants (10.9 CEER). | Decrease in savings |  |
| Residential | Appliances | Room Air Conditioner Recycling | Update to CEERexist assumption (as above)  Addition of separate assumptions for units from IQ participants (efficiency, hours, coincidence factor). | Decrease in savings for non-IQ participants. Increase for IQ participants. |  |
| Residential | Appliances | Residential Induction Cooking Appliances | Update to variables and measure costs. | Increase in savings and measure cost. |  |
| Residential | HVAC | Multiple | A TAC Working Group is reviewing all HVAC measure costs and will update in a future draft. | Expect all equipment cost to increase. |  |
| Residential | HVAC | Centrally Ducted Air Source Heat Pump (Central, Ductless and Portable) | Addition of furnace fan savings for electric furnaces. Update to Room AC existing efficiency assumptions. | Decrease in savings if replacing Room AC. |  |
| Residential | HVAC | Central Air Conditioning | Replacing efficient specifications from ENERGY STAR (which is being sunset in February 2026) with the Consortium for Energy Efficiency (CEE).  Update to capacity assumptions – now dependent on market sector. | Impact dependent on market sector. Decrease in savings if replacing Room AC. |  |
| Residential | HVAC | Gas High Efficiency Furnace | Update to capacity assumptions – now dependent on market sector. | Decrease in savings. |  |
| Residential | HVAC | Advanced Thermostat | Update to Heating\_Reduction assumption when existing thermostat is unknown. Now dependent on market sector. | Decrease for non-IQ single family.  Increase for multi family and IQ. |  |
| Residential | Hot Water | Heat Pump Water Heaters | Update to measure costs. | Dependent on unit type. |  |
| Residential | Lighting | LED Specialty Lamps,  LED Screw Based Omnidirectional Bulbs,  LED Fixtures | The SAG is currently discussing whether screw based lamp programs should be able to continue beyond 2025. Expect determination before second draft. | Unknown. |  |
| Residential | Shell | Multiple | Addition of savings for homes cooled by Room AC.  Increase of “Discretionary Use Adjustment” | Increase in savings and new opportunity for savings from homes with Room AC. |  |
| Residential | Shell | Air Sealing | Addition of assumption for savings from a can of spray foam. | Decrease savings from current program assumption. |  |
| Residential | Shell | Floor Insulation Above Crawlspace | New assumptions to reflect typical mobile homes construction. | Increase in savings for mobile homes. |  |

In addition, the following new measures are being proposed for inclusion for the first time in v14:

| **Market** | **End Use** | **Measure** |
| --- | --- | --- |
| Commercial | Agriculture | Indoor Agriculture Dehumidifier |
| Commercial | HVAC | CRAC/CRAH Electronically Commutated Plug Fans |
| Commercial | HVAC | Turbulators |
| Commercial | HVAC | Waterless HVAC Condensate Trap |
| Commercial | Shell | Efficient Windows |
| Commercial | Miscellaneous | Virtual Commissioning (VCx) |
| Commercial | Miscellaneous | Solar as Energy Efficiency \* |
| Residential | Appliances | Residential Refrigerator Seal Replacement – Provisional Measure |
| Residential | HVAC | Gas Heat Pump |
| Residential | Water Heating | Residential Solar Water Heater \* |
| Residential | Shell | Energy Efficient Doors |
| Residential | Miscellaneous | Smart Irrigation Controls |
| Residential | Miscellaneous | Light Duty Electric Vehicle \* |
| Residential | Miscellaneous | Solar as Energy Efficiency \* |

*\* Note: The inclusion of these measures in v14 of the IL TRM is dependent on the determination of its appropriateness by the IL SAG.*