EnergyGauge USA Version 8.1.04 RELEASE NOTES

GENERAL NEW FEATURES

Version 8.1.04 is an update to version 8.1.02. Major features include IECC 2021 Performance, Update to ENERGY STAR SFNC to V3.2 Rev 13, Update to ENERGY STAR MFNC to V1.2 Rev 4.

GENERAL BUG FIXES

- On block tab, deleting a block gave a "Closet_only" not found error. This has been fixed.
- SEER2 and HSPF2 were added to preferences.
- Input summary and R405 input summary reports now includes a small number of items that were entered but not included on report: roof framing fraction, hot water heat trap, garage dimensions, air handler factory sealed or not.
- Input summary report now rounds Rvalue of Floor over garage R value so value can be seen.
- Request for rater information in preferences removed for non-rater versions.
- Removed efficiency error message when running chillers.
- Untested, unfinished galvalum and galvanized now have the emittance indicated in code/ratings
- Error checking now catches missing entries for space name under a floor
- Error checking now catches missing exposed wall area in garages
- Error checking now warns for unusually low framing fraction for frame walls
- Error checking warns about discrepancies between county and state on project tab and climate tab

FLORIDA ENERGY CODE

- Error message regarding refrigerator has been fixed for code compliance calculations where space tab did not indicate a kitchen zone.
- Florida climate zone on project page shows correctly.

ACCA Manual J and S and D

- Added a multi-report print button to save printing time.
- Manual J interior shading for medium drapes was fixed.
- Rooms without supplies addressed in Manual D.
- Fixed a bug where a split room with a duct run to one AHU was being lost when returning to Step 1.
- Returning from step 9 sometimes caused an issue- that has been fixed.

Kwik Model 3D

- A number of improvements made including one critical one to better save EnergyGauge entries when going back to KwikModel 3D.

IECC

- IECC 2021 Performance method implemented, adding to the prescriptive methods already available.
- IECC reports correctly show fail for higher than code ACH50 values
- Test for mechanical ventilation system cfm updated for 2018 IECC
- When viewing the IECC Standard Reference Home, user could be stuck on infiltration screen asking for "data entry method" when user home type is confirmed (infiltration was tested and had entered tested value). This has been fixed.
- IECC UA method requires fenestration minimum to include doors and vertical glass. Previously doors were not included.

TAX CREDIT

- No changes

HERS RATERS CHANGES

- Fixed an issue where dishwasher on loading a file may cause an error if spaces had been deleted since visiting dishwasher screen.
- IndoorAirPlus label issue during registration is fixed
- Added CO_2e for user and reference home and CO_2e savings to stored results table after registration
- Zip codes beginning with 0 will no longer give lookup error.

ENERGY STAR and DOE ZERH

- Updated ENERGY STAR SFNC to V3.2 Rev 13. The new version is required by 1/1/2025 in Florida and some other locations. See https://www.energystar.gov/partner-resources/residential-new/national-page
- Updated ENERGY STAR MFNC to V1.2 Rev 4. The new version is required by 1/1/2025 in Florida and some other locations. See https://www.energystar.gov/partner-resources/residential-new/multifamily-national-page
- Updated ENERGY STAR MFNC to V1.1 to V1.1 Rev 4. The new version is required by 1/1/2025 in some locations. See https://www.energystar.gov/partner-resources/residential-new/multifamily-national-page