

## CBECC-Res 2019.2.0 SP1 - Release Notes November 3, 2021

### Changes since CBECC-Res 2019.2.0 (October 6, 2021):

- correct the default & standard design PV Solar Access from 95 to 98%
- correct the minimum central HPWH tank volumes to 3 gallons per compressor output kW
- correct the IAQ message and labels to be consistent with RACM Reference Manual
- correct reporting for central HPWH in XML reporting
- fix error related to DHW systems for ADUs

### Significant changes since CBECC-Res 2019.1.3-SP1 (Sep 2020):

- Updates to IAQ/HRV modeling impacting compliance calculations:
  - replacing recovery effectiveness w/ sensible and adjusted sensible recovery efficiencies (SRE & ASRE)
  - new specification of supply air filter/inlet & HRV recovery core accessibility
  - revised fan W/CFM
  - added IAQ SRE/ASRE and fan wattage adjustment accounting for system maintenance/reliability with exception for this adjustment for systems with fault detection systems.
  - updated maximum baseline IAQ airflow to 125% of code minimum.
- Executables updated to latest (2019) version of development platform, including all third party libraries
- Addition of JA13 - DR Heat Pump Water Heaters
- Restructuring of individual and central HPWH inputs
- Northwest Energy Efficiency Alliance (NEEA) HPWH Advanced Water Heating Specification program selection expanded to 74 new brand/model options (including Tier 4) and addition of new Commercial HPWH Product selections
- Multifamily Central Heat Pump Water Heater (HPWH) - several configurations, large compressor types, loop tank options and tank locations.
- Fix for HP equipment where combination of high HSPF and low Cap17 (multi-speed units) caused simulation error
- Access to battery storage charge and discharge rates and improvements to Advanced DR Control
- Addition of new reduced PV requirements exceptions (7) Section 10-109(k) determination, and (8) Excessive snow load