





2019 Building Energy Efficiency Standards, California Code of Regulations, Title 24, Parts 1 and 6 Docket: 19-BSTD-01 Approval: 20-090120

APPROVAL BY THE EXECUTIVE DIRECTOR OF THE PUBLIC DOMAIN RESIDENTIAL COMPLIANCE SOFTWARE CBECC-RES 2019.1.3

The executive director hereby approves California Building Energy Code Compliance (CBECC) software, CBECC-Res 2019.1.3, as the public domain alternative calculation method for demonstrating performance compliance with the residential provisions of the 2019 Building Energy Efficiency Standards, California Code of Regulations, Title 24, Part 6, and associated administrative regulations in Part 1, Chapter 10 (Energy Code).

The Warren-Alquist Act, Public Resources Code sections 25000 et seq., 25402.1(b), requires the California Energy Commission (CEC) to, among other things, establish a process for certifying calculation methods for demonstrating compliance with the Energy Code.

CBECC-Res 2019.1.3 contains the following functional changes and corrections:

- SMUD Neighborhood SolarShares (NSS) Program (community solar) implementation
- Corrections to ventilation cooling fan simulation
- Ability to model a central heat pump water heater (HPWH) in multifamily buildings
- Added HVAC equipment types including packaged terminal heat pump and variants
- Northwest Energy Efficiency Alliance (NEEA) HPWH Advanced Water Heating Specification program selection expanded to include 60 new brand/model options
- Support for solar thermal systems certified by International Code Council-Solar Rating and Certification Corporation Solar Thermal Collector Certification (ICC-SRCC OG-100) and Solar Water Heater Certification (ICC-SRCC OG-300) programs
- Solar Thermal Photovoltaic (PV) Offset Credit option to apply a portion
 of the multifamily project's PV generation as a credit toward energy
 efficiency time dependent valuation (TDV) to offset the solar thermal
 system in the standard design model

- Various improvements and fixes to source code
- Various rule enhancements as needed for various bug fixes

When CBECC-Res 2019.1.0 was approved on May 15, 2019, the CEC directed the executive director to take all actions reasonably necessary to ensure that CBECC-Res is maintained and revised to accurately estimate the energy use of residential buildings and demonstrate compliance with the 2019 Energy Code.

Pursuant to the 2019 Alternative Calculation Method Approval Manual¹, this update is not a major update to the CBECC-Res 2019.1.0 compliance manager² and it qualifies as a section 1.3.2 change. Further, this update is sufficiently minor such that third-party vendors are not required to incorporate this change on any particular schedule.

Information for obtaining CBECC-Res 2019.1.3 will be posted on the CEC's 2019 Energy Code website for <u>approved computer compliance programs</u>: https://www.energy.ca.gov/title24/2019standards/2019 computer prog list.html.

APPROVED:

Drew Bohan Executive Director

¹ See 2019 Alternative Calculation Method Approval Manual, December 2018, Pub. No. CEC-400-2018-023-CMF, sections 1.3.2 and 1.4.1, pp. 8-9, available at: https://ww2.energy.ca.gov/2018publications/CEC-400-2018-023/CEC-400-2018-023-CMF.pdf.

² Cal. Code Regs., Title 24, Part 1, Ch. 10, and Part 6 (also known as the California Energy Code).