| *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 Manual*[1], this update is not a major update to the CBECC-Res 2019.1.0 compliance manager[2] 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 approved computer compliance programs: https://www.energy.ca.gov/title24/2019standards/2019_computer_prog_list.html.

APPROVED:

Drew Bohan
Executive Director

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[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).