

DOCKETED

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**2019 Building Energy Efficiency Standards,
California Code of Regulations, Title 24,
Parts 1 and 6**

**Docket: 19-BSTD-01
Approval: 22-110422**

**APPROVAL BY THE EXECUTIVE DIRECTOR OF
PUBLIC DOMAIN RESIDENTIAL (CBECC-RES 2019.2.1) AND
NONRESIDENTIAL (CBECC-COM 2019.2.1) COMPLIANCE SOFTWARE**

The executive director hereby approves California Building Energy Code Compliance (CBECC) software, CBECC-Res 2019.2.1 and CBECC-Com 2019.2.1, as the public domain alternative calculation methods for demonstrating performance compliance with the residential (CBECC-Res) and nonresidential (CBECC-Com) provisions of the *2019 Building Energy Efficiency Standards*, California Code of Regulations, Title 24, Parts 1 and 6 (Energy Code).

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

CBECC-Res 2019.2.1 contains the following functional changes and corrections:

- Added the ability to model equipment with new seasonal energy efficiency ratio two (SEER2), energy efficiency ratio two (EER2), and heating seasonal performance factor two (HSPF2) ratings
- Implementation of dual-panel hollow wall modeling as outlined in the [BamCore Prime Wall Exceptional Method Compliance Option Staff Report](https://www.energy.ca.gov/publications/2020/bamcore-prime-wall-exceptional-method-compliance-option) at <https://www.energy.ca.gov/publications/2020/bamcore-prime-wall-exceptional-method-compliance-option> at <https://www.energy.ca.gov/publications/2020/bamcore-prime-wall-exceptional-method-compliance-option>
- User interface improvements and corrections
- Enhancements and fixes to source code and ruleset as needed for software enhancements and bug fixes

CBECC-Com 2019.2.1 contains the following functional changes and corrections:

- Added the ability to model equipment with new seasonal energy efficiency ratio two (SEER2), energy efficiency ratio two (EER2), and heating seasonal performance factor two (HSPF2) ratings
- Implementation of dual-panel hollow wall modeling as outlined in the [BamCore Prime Wall Exceptional Method Compliance Option Staff Report](https://www.energy.ca.gov/publications/2020/bamcore-prime-wall-exceptional-method-compliance-option) at <https://www.energy.ca.gov/publications/2020/bamcore-prime-wall-exceptional-method-compliance-option>
- Added capability to model air-to-water heat pumps for space heating
- User interface improvements and corrections
- Enhancements and fixes to source code and ruleset as needed for software enhancements and bug fixes

When CBECC-Res 2019.2.0 and CBECC-Com 2019.2.0 were approved on September 9, 2021, the CEC directed the executive director to take action to ensure that CBECC-Res and CBECC-Com were maintained and revised to accurately 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 2019.2.0 or CBECC-Com 2019.2.0 compliance managers² and 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 schedule.

Information for obtaining CBECC-Res 2019.2.1 or CBECC-Com 2019.2.1 will be posted on the CEC's [2019 Standards website for approved computer compliance programs](https://www.energy.ca.gov/title24/2019standards/2019_computer_prog_list.html) at 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://www.energy.ca.gov/publications/2018/2019-alternative-calculation-method-approval-manual-2019-building-energy>.

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