

**CALIFORNIA ENERGY COMMISSION**

1516 Ninth Street, MS 45  
Sacramento, California 95814

Main website: [www.energy.ca.gov](http://www.energy.ca.gov)



**2013 Building Energy Efficiency Standards,  
California Code of Regulations, Title 24,  
Parts 1 and 6**

**Docket No. 12-BSTD-01  
Approval: 16-0729**

**APPROVAL BY THE EXECUTIVE DIRECTOR OF THE PUBLIC DOMAIN  
NONRESIDENTIAL COMPLIANCE SOFTWARE CBECC-COM 2013-3E**

The Executive Director hereby approves CBECC-Com 2013-3e as the public domain alternative calculation method for demonstrating performance compliance with the nonresidential provisions of the *2013 Building Energy Efficiency Standards, California Code of Regulations, Title 24, Part 6*, and associated administrative regulations in Part 1, Chapter 10 (Standards).

The Warren-Alquist State Energy Resources Conservation and Development Act, Public Resources Code sections 25000 et seq., 25402.1, subd. (b), requires the California Energy Commission to, among other things, establish a process for certifying calculation methods for demonstrating compliance with its building energy efficiency standards.

CBECC-Com 2013-3e incorporates additional functionality and corrections to the revised compliance manager that was approved by the Executive Director on December 22, 2016, as part of the Application Programming Interface in the 2013 Public Domain California Building Energy Code Compliance - Nonresidential (CBECC-Com) software, Version 3d. CBECC-Com 2013-3e incorporates the following functional changes and corrections:

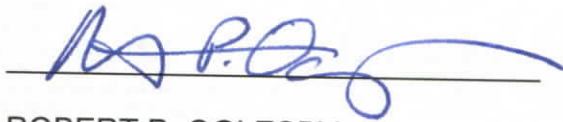
- Upgrade of simulation engine to EnergyPlus 8.5
- Addition of partial compliance options for the Existing plus Addition compliance type
- Incorporation of the residential CSE engine for domestic hot water heating for high-rise residential and hotel/motel occupancies
- Added new input screen to support high-rise residential dwelling unit modeling
- Added new capability to model Single Packaged Vertical Units
- Added new capability to model air-to-air heat recovery (intake and relief exchange within a common air-handler)
- Added capability to specify fixed seating for nonresidential occupancies

- Added capability for user to specify load ranges for chiller staging
- Reporting updates to include new capability and bug fixes as required
- Various bug fixes

In approving CBECC-Com Version 3b, the Energy Commission directed the Executive Director to take all actions reasonably necessary to ensure that CBECC-Com is maintained and revised to accurately estimate the energy use of nonresidential buildings and demonstrate compliance with the *2013 Building Energy Efficiency Standards*.

In addition to increasing functionality and solving concerns from the building industry, addressing these issues does not significantly affect compliance with the *2013 Building Energy Efficiency Standards*.<sup>1</sup> Therefore, this update is not required to be approved by the Energy Commission<sup>2</sup> and Versions 3b, 3c, 3d, as well as Version 3e, are valid for permit applications.

Information for obtaining CBECC-Com Version 3e will be posted on the Energy Commission's 2013 Standards website for approved computer compliance programs: [www.energy.ca.gov/title24/2013standards/2013\\_computer\\_prog\\_list.html](http://www.energy.ca.gov/title24/2013standards/2013_computer_prog_list.html).



ROBERT P. OGLESBY  
Executive Director

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

<sup>2</sup> See Residential Alternative Calculation Method Approval Manual, May 2012, Pub. No. CEC-400-2012-007-CMF-REV, § 1.2.4, p. 1-3, available at: [www.energy.ca.gov/2012publications/CEC-400-2012-007/CEC-400-2012-007-CMF-REV.pdf](http://www.energy.ca.gov/2012publications/CEC-400-2012-007/CEC-400-2012-007-CMF-REV.pdf).