

STATE OF CALIFORNIA

**Energy Resources Conservation
And Development Commission**

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

**Docket No. 12-BSTD-01
Resolution No. 14-1121**

**APPROVAL BY THE EXECUTIVE DIRECTOR OF THE PUBLIC DOMAIN
CALIFORNIA BUILDING ENERGY CODE COMPLIANCE (CBECC-RES) VERSION 3B
RESIDENTIAL COMPLIANCE SOFTWARE**

The Executive Director hereby approves CBECC-Res Version 3b as the public domain alternative calculation method for demonstrating performance compliance with the residential 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 Energy Commission to, among other things, establish a process for certifying calculation methods for demonstrating compliance with its building energy efficiency standards.

CBECC-Res Version 3b incorporates additional functionality and corrections to the revised compliance manager that was previously approved by the Energy Commission on August 27, 2014, as part of the Application Programming Interface in the 2013 Public Domain California Building Energy Code Compliance - Residential (CBECC-Res) Software, Version 3. CBECC-Res Version 3b adds the following functional changes:

- Allows modeling multiple attics (a feature needed for additions that may include a radiant barrier, while the existing building does not),
- Allows modeling underground (or below grade) walls and floors,
- Allows modeling of room air conditioners and heat pumps, and
- Includes documentation of the California Advanced Homes Program (CAHP) single family and multi-family calculations.

Corrections made by Version 3b include:

- Allowing mass wall thickness greater than 12 inches,

- Preventing modeling ducted systems without ducts,
- Identifying non-central heating devices, such as wall furnaces, and their appropriate efficiencies (versus calling them all heaters with a default efficiency),
- Correcting heat pump sizing issue in climates with small cooling loads,
- Correctly identifying multi-family space conditioning equipment in a manner compatible with HERS rater requirements which apply to each dwelling unit, and
- Correcting miscellaneous CF1R reporting issues.

In approving CBECC-Res Version 3 on August 27, the Energy Commission 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 2013 Building Energy Efficiency Standards for buildings, including correcting functional errors.

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.¹

Information for obtaining CBECC-Res Version 3b 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.



Robert P. Oglesby
Executive Director

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