

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. 15-0513-5**

**RESOLUTION OF THE ENERGY COMMISSION
APPROVING REVISIONS TO THE 2013 PUBLIC DOMAIN
RESIDENTIAL COMPLIANCE SOFTWARE
CBECC-RES VERSION 4**

WHEREAS, the Warren-Alquist State Energy Resources Conservation and Development Act, Public Resources Code sections 25000 et seq., 25402.1, subdivision (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; and

WHEREAS, on September 11, 2013, the Energy Commission approved the 2013 Public Domain California Building Energy Code Compliance – Residential (CBECC-Res) software, Version 1.0, for estimating energy consumed by residential buildings under Public Resources Code section 25402.1, subdivision (a), and for demonstrating compliance with the performance-based residential provisions of the 2013 Building Energy Efficiency Standards, California Code of Regulations, Title 24, Parts 1, Chapter 10, and 6; and

WHEREAS, the Energy Commission subsequently approved revisions to CBECC-Res, and revoked approval of previous versions, under California Code of Regulations, Title 24, Part 1, Chapter 10, sections 10-109 and 10-110; and

WHEREAS, CBECC-Res has been further revised as reflected in Version 4 to incorporate a major change to the Compliance Manager, new rulesets that allow modeling boilers for hydronic space heating, as well as adding greater functionality, correcting analytical errors, and correcting reporting errors associated with additions and alterations; and

WHEREAS, as described in the CBECC-Res Summary of Residential ACM Tests presented to the Energy Commission along with this Proposed Resolution, staff of the Energy Commission has reviewed and tested CBECC-Res, Version 4, to ensure it meets the requirements, specifications, and criteria for building energy models set forth in the Residential Alternative Calculation Method Approval Manual, CEC-400-2012-007-CMF-REV (April 2014);

THEREFORE, the Energy Commission approves CBECC-Res, Version 4, for estimating energy consumed by residential buildings under Public Resources Code section 25402.1, subdivision (a), and for demonstrating compliance with the performance-based residential provisions of the 2013 Building Energy Efficiency Standards, California Code of Regulations, Title 24, Parts 1 and 6; and

THEREFORE, the Energy Commission rescinds its approval of previous versions of CBECC-Res for estimating energy consumed by residential buildings under Public Resources Code section 25402.1, subdivision (a), and demonstrating performance compliance with the performance-based residential provisions of the 2013 Standards for permit applications made on or after August 1, 2015; and

THEREFORE, pursuant to the 2013 Residential Alternative Calculation Method Approval Manual, May 2012, CEC-400-2012-007-CMF-REV, sections 1.2.2 and 1.4, the Energy Commission rescinds its approval of the Alternative Calculation Methods (also known as computer compliance programs) EnergyPro Version 6.3, 6.4, and 6.5 and Right-Energy Title 24 V 1.1, 1.2, and 1.3, which incorporate the previous version of the CBECC-Res Compliance Manager for estimating energy consumed by residential buildings under Public Resources Code section 25402.1, subdivision (a), and demonstrating compliance with the performance-based residential provisions of the 2013 Standards for permit applications made on or after August 1, 2015; and

THEREFORE, the vendors of the Alternative Calculation Methods identified above must integrate the CBECC-Res Version 4 Compliance Manager Software and provide the Commission with an updated copy of the software and user manual within 45 days, by Friday, June 26, 2015, under the 2013 Residential Alternative Calculation Method Approval Manual, May 2012, CEC-400-2012-007-CMF-REV, sections 1.2.2 to have approved software for demonstrating compliance with the performance-based residential provisions of the 2013 Standards for permit applications made on or after August 1, 2015; and

THEREFORE, the Energy Commission directs the Executive Director to review and approve updates to the Alternative Calculation Methods identified above that integrate the CBECC-Res Version 4 Compliance Manager software; and

THEREFORE, the Energy Commission directs the Executive Director to take, on behalf of the Energy Commission, all actions reasonably necessary to implement this resolution, including but not limited to:

- (a) Posting information on obtaining CBECC-Res, Version 4, on the Energy Commission's publicly-accessible internet web site;
- (b) Continuing to ensure CBECC-Res is maintained and revised as necessary to accurately estimate the energy use of residential buildings and demonstrate compliance with the 2013 Building Energy Efficiency Standards for buildings, including by
 - (i) Correcting functional and analytical errors,
 - (ii) Incorporating software modules that address additional compliance options approved by the Energy Commission, and additional building systems, assemblies, and construction materials,
 - (iii) Rescinding approval of previous versions of CBECC-Res when updates are made, and

- (iv) Rescinding approval of previously-approved versions of alternative calculation methods that do not include the most recent updates to CBECC-Res when updates are made to CBECC-Res, in accordance with the criteria and procedures for public participation in section 1.4 of the 2013 Residential Alternative Calculation Method Approval Manual.

Date: May 13, 2015

CERTIFICATION

The undersigned Secretariat to the Commission does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly approved at a meeting of the California Energy Commission held on May 13, 2015.

AYE: Weisenmiller, Douglas, McAllister, Hochschild, Scott
NAY: None
ABSENT: None
ABSTAIN: None



Harriet Kallemeyn,
Secretariat