

DOCKETED

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Project Title:	2016 Residential and Nonresidential Software and Related ACM Reference Manuals
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Document Title:	RESOLUTION OF THE CALIFORNIA ENERGY COMMISSION APPROVING THE 2016 PUBLIC DOMAIN RESIDENTIAL COMPLIANCE SOFTWARE CBECC-RES 2016.3
Description:	RESOLUTION NO: 17-0712-1b
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Organization:	California Energy Commission
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STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

2016 Building Energy Efficiency Standards,
California Code of Regulations, Title 24,
Parts 1 and 6

Docket No. 16-BSTD-04

RESOLUTION OF THE CALIFORNIA ENERGY COMMISSION
APPROVING THE 2016 PUBLIC DOMAIN
RESIDENTIAL COMPLIANCE SOFTWARE
CBECC-RES 2016.3.0

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, the 2016 public domain California Building Energy Code Compliance – Residential software, CBECC-Res 2016.2.1, estimates energy consumed by residential buildings under Public Resources Code Section 25402.1, Subdivision (a), for demonstrating compliance with the performance-based residential provisions of the *2016 Building Energy Efficiency Standards*, California Code of Regulations, Title 24, Parts 1, Chapter 10, and 6; and

WHEREAS, as described in the CBECC-Res 2016.3.0 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 2016.3.0 to ensure it meets the requirements, specifications, and criteria for building energy models set forth in the *2016 Alternative Calculation Method Approval Manual* (ACM Approval Manual), CEC-400-2015-039-CMF (June 2015).

THEREFORE, the Energy Commission approves CBECC-Res 2016.3.0 for estimating energy consumed by residential buildings as specified in Public Resources

Code Section 25402.1, Subdivision (a), and for demonstrating compliance with the performance-based residential provisions of the *2016 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 2016 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 *2016 Building Energy Efficiency Standards* for permit applications made on or after October 25, 2017; and

THEREFORE, pursuant to the ACM Approval Manual, Sections 1.3.1 and 1.5.1, the Energy Commission rescinds its approval of the alternative calculation methods (also known as computer compliance programs) EnergyPro Version 7.1 and Right-Energy Title 24, Versions 2.1 and 2.2, which incorporate the previously approved CBECC-Res 2016.2.1 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 *2016 Building Energy Efficiency Standards*; and

THEREFORE, the private software vendors of the alternative calculation methods identified above must integrate the CBECC-Res 2016.3.0 compliance manager software and provide the Energy Commission with an updated copy of the software and user manual within 45 days, by Monday, September 11, 2017, under the ACM Approval Manual, Section 1.2.1, to have approved software for demonstrating compliance with the performance-based residential provisions of the *2016 Building Energy Efficiency Standards* for permit applications made on or after October 25, 2017; 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 2016.3.0 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:

- Posting information on the Energy Commission's public website as to how to obtain CBECC-Res 2016.3.0;
- Ensuring that CBECC-Res 2016.3.0 and the *2016 Residential Alternative Calculation Method (ACM) Reference Manual* are maintained and revised to accurately estimate the energy use of residential buildings, including correcting functional and analytical errors, and incorporating software modules that address compliance options and additional building systems, assemblies and construction materials; and
- Reviewing and approving updates to the venter software, consistent with Section 1.3 of the ACM Approval Manual.

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 adopted at a meeting of the California Energy Commission held on July 12, 2017.

AYE: Douglas, McAllister, Hochschild, Scott

NAY: None

ABSENT: Weisenmiller

ABSTAIN: None

Original Signed by:

Cody Goldthrite
Secretariat