

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

**RECOMMENDATION BY THE EXECUTIVE DIRECTOR TO THE ENERGY
COMMISSION TO APPROVE ENERGYPRO VERSION 6.5
NONRESIDENTIAL COMPLIANCE SOFTWARE**

The Executive Director of the California Energy Commission (Energy Commission) recommends that the Energy Commission approve EnergyPro Version 6.5 as an alternative calculation method for demonstrating compliance with the performance approach of 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).

Section 10-109(c)(2) of the Standards authorizes the Energy Commission to approve non-public domain computer programs as an alternative calculation method that building permit applications may then use to demonstrate compliance with the Standards.

Pursuant to section 10-109(c)(2), the applications for approval of Alternative Calculation Methods must include documentation demonstrating the nonresidential software meets the requirements, specifications, and criteria in the Nonresidential Approval Manual. The Nonresidential Approval Manual requires Alternative Calculation Method software to incorporate the Compliance Manager from the nonresidential public domain compliance software. California Building Energy Code Compliance Commercial (CBECC-Com) is the nonresidential public domain compliance software approved by the Energy Commission and contains the Compliance Manager that Nonresidential Alternative Calculation Methods are required to incorporate. The Compliance Manager contains an element known as the CBECC-Com Application Program Interface (API).

As allowed by the 2013 Standards, an application has been submitted to approve EnergyPro v6.5 as an alternative calculation method for demonstrating performance compliance with the nonresidential provisions of the Standards. Pursuant to Section 10-110 of the Standards, the Executive Director of the California Energy Commission has determined that the application is complete with all of the supporting information required in Section 10-109 of the Standards.

Executive Director Recommendation
to Approve EnergyPro v6.5 as
Nonresidential Compliance Software

Energy Commission staff has reviewed the application and has tested EnergyPro v6.5. EnergyPro v6.5 software uses the simplified geometry two dimensional option of the CBECC-COM API to generate the building definition used to calculate the performance compliance budgets. Therefore this version of the software cannot model additional daylighting credits beyond the mandatory requirements and it cannot model the shading of windows and glazed doors. Supporting documentation and computer runs that demonstrate EnergyPro v6.5 meets the requirements have been included in the backup materials to the agenda item, where the Energy Commission will consider whether to approve EnergyPro v6.5, for the April 08, 2015 Business Meeting. Energy Commission staff has determined that EnergyPro v6.5 meets the requirements, specifications, and criteria set forth in the Nonresidential Alternative Calculation Method Approval Manual, CEC-400-2012-006-CMF-REV (April 2014), as required by California Code of Regulations, Title 24, Part 1, Chapter 10, Section 10-109(c)(2).

Pursuant to subsection (e) of Section 10-110 of the Standards, the complete application package, any additional information considered by the Executive Director, and this Recommendation shall be considered at the April 08, 2015 meeting, which is the next business meeting after the submission of this Recommendation.

Therefore, the Executive Director recommends the California Energy Commission approve EnergyPro v6.5 as an alternative calculation method for demonstrating compliance with the performance approach of the nonresidential provisions of the 2013 Standards.

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Executive Director