

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. 14-0722-01

**RECOMMENDATION BY THE EXECUTIVE DIRECTOR TO THE ENERGY
COMMISSION TO CONDITIONALLY APPROVE ENERGYPRO VERSION 6.2
COMPLIANCE SOFTWARE**

The Executive Director of the California Energy Commission recommends that the Energy Commission approve (1) the alternate procedure or protocol for the Commission to conditionally approve, until December 31, 2014, nonresidential vendor software that does not integrate the Public Domain Compliance Manager but meets specific time dependent valuation (TDV) requirements, and (2) pursuant to the alternative procedure or protocol, approve EnergyPro Version 6.2 as an 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 Energy Commission to, among other things, establish a process for certifying calculation methods for demonstrating compliance with its building energy efficiency standards.

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

Pursuant to section 10-109(c)(2), the 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 program. California Building Energy Code Compliance Nonresidential (CBECC-Com) is the nonresidential public domain compliance program approved by the 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 .

Pursuant to section 10-109 (h) of the Standards, in addition to the procedures and protocols identified in the Alternative Calculation Method Approval Manuals and the Reference Appendices, the Commission may authorize alternative procedures and protocols that demonstrate compliance with Part 6. The Executive Director recommends the following alternative procedure or protocol to conditionally approve, until December 31, 2014, nonresidential Alternative Calculation Methods that do not integrate the CBECC-Com API.

1. The alternate procedure or protocol for the Commission to conditionally approve, until December 31, 2014, nonresidential vendor software that does not integrate the Public Domain Compliance Manager (CBECC-Com API) but meets specific time dependent valuation (TDV) requirements.

This alternative protocol only applies to the Energy Commission staff's review of an application submitted pursuant to 10-109 to approve a Nonresidential Alternative Calculation Method that does not integrate the CBECC-Com API. The application for Nonresidential Alternative Calculation Method that does not integrate CBECC-Com API shall be evaluated by using the following testing criteria for 2013 Compliance Software.

Applicant software should fulfill the passing criteria for both the baseline TDV energy comparison and the TDV energy variation tests.

Baseline TDV energy comparison tests: For each test case, baseline TDV energy results from Applicant Model must be within $\pm 15\%$ of the baseline TDV energy of Reference Method results.

TDV energy comparison tests: For each test case, the change in energy must be in the same direction as the Reference Method test case result, and must be equal to the Reference Method test case percentage change in TDV energy, plus or minus 1% of baseline TDV energy.

Any vendor software meeting these requirements and certified as compliance software under this criteria (not integrating CBECC-Com API) is valid for demonstrating compliance through December 31, 2014. After this date vendor software must integrate CBECC-Com Application Programming Interface (API) and resubmit for certification to the Energy Commission.

2. Pursuant to the alternative procedure or protocol, the Executive Director recommends approval of EnergyPro Version 6.2 as an alternative calculation method for demonstrating performance compliance with the nonresidential provisions of the Standards.

As allowed by the 2013 Standards, an application has been submitted to approve EnergyPro Version 6.2 as an alternative calculation method for demonstrating performance compliance with the nonresidential provisions of the Standards.

Staff of the Energy Commission has reviewed the application. Staff of the Energy Commission has tested EnergyPro Version 6.2 pursuant to the alternate procedure or protocol specified above to conditionally approve, until December 31, 2014, nonresidential vendor software that does not integrate the Public Domain Compliance Manager but meets specific TDV requirements.

Staff of the Energy Commission has also reviewed the application and tested EnergyPro Version 6.2 to ensure it meets all other requirements, specifications, and criteria set forth in the Nonresidential Alternative Calculation Method Approval Manual, as required by Section 10-109 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, and pursuant to the alternative procedure or protocol specified above, and recommends the California Energy Commission conditionally approve EnergyPro Version 6.2 until December 31, 2014 as an alternative calculation method for demonstrating performance compliance with the nonresidential provisions of the 2013 Standards.

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 placed on the consent calendar at the July 22, 2014 meeting, the next business meeting after the submission of this Recommendation.

Rob Oglesby
Executive Director