State of California

California Natural Resources Agency

M e m o r a n d u m

To: Chair and Commissioners

Date: December 2, 2022

Telephone: (916) 897-3450

From: **RJ Wichert**
Efficiency Division
California Energy Commission
715 P Street
Sacramento, CA 95814

Subject: **Approval of 2022 Energy Code Compliance Software, EnergyPro Version 9.0**

Proposed resolution approving third party compliance software EnergyPro Version 9.0, by EnergySoft LLC., as an alternative calculation method for demonstrating performance compliance with the residential, nonresidential, and multifamily provisions of the 2022 Building Energy Efficiency Standards (Energy Code).

The 2022 public domain compliance software, California Building Energy Code Compliance (CBECC) and CBECC Residential (CBECC-Res) versions 2022.2.0, were approved at the October 12, 2022, business meeting. EnergySoft incorporated the 2022.2.0 versions of CBECC and CBECC-Res compliance software into EnergyPro version 9.0 and submitted an application for approval as an alternative calculation method (ACM) as allowed by the 2022 Energy Code, California Code of Regulations, Title 24, Part 1, Chapter 10, sections 10-109(c) and 10-110.

Staff reviewed and tested EnergyPro 9.0 to ensure it meets the requirements, specifications, and criteria for building energy models set forth in the 2022 ACM Approval Manual.

Backup material for this item:

1. [EnergyPro 9.0 Nonresidential and Multifamily Ruleset Implementation Test Specifications](https://efiling.energy.ca.gov/GetDocument.aspx?tn=247992-1&DocumentContentId=82280) [https://efiling.energy.ca.gov/GetDocument.aspx?tn=247992-1&DocumentContentId=82280]

2. [EnergyPro 9.0 Nonresidential and Multifamily Sensitivity Test Results Summary](https://efiling.energy.ca.gov/GetDocument.aspx?tn=247992-2&DocumentContentId=82281) [https://efiling.energy.ca.gov/GetDocument.aspx?tn=247992-2&DocumentContentId=82281]

3. [EnergyPro 9.0 Residential Test Data Set (TDS) Results Summary](https://efiling.energy.ca.gov/GetDocument.aspx?tn=247992-3&DocumentContentId=82282) [https://efiling.energy.ca.gov/GetDocument.aspx?tn=247992-3&DocumentContentId=82282]

4. [EnergyPro 9.0 Self Certification](https://efiling.energy.ca.gov/GetDocument.aspx?tn=247992-4&DocumentContentId=82283) [https://efiling.energy.ca.gov/GetDocument.aspx?tn=247992-4&DocumentContentId=82283]

STATE OF CALIFORNIA

**STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION**

RESOLUTION APPROVING 2022 ENERGY CODE THIRD PARTY RESIDENTIAL, NONRESIDENTIAL, AND MULTIFAMILY COMPLIANCE SOFTWARE ENERGYPRO VERSION 9.0

WHEREAS, the Warren-Alquist State Energy Resources Conservation and Development Act, Public Resources Code sections 25000 et seq., 25402.1(b), requires the California Energy Commission (CEC) to, among other things, establish a process for certifying calculation methods for demonstrating compliance with its building energy efficiency standards; and

WHEREAS, as allowed by the *2022 Building Energy Efficiency Standards* (Energy Code), California Code of Regulations, Title 24, Part 1, Chapter 10, sections 10-109(c) and 10-110, an application was submitted to approve EnergyPro 9.0 as an alternative calculation method (ACM); and

WHEREAS, staff of the CEC reviewed and tested EnergyPro 9.0 to ensure it meets the requirements, specifications, and criteria for building energy models set forth in the *2022 ACM Approval Manual*, CEC-400-2022-014-CMF (August 2022).

THEREFORE BE IT RESOLVED, that the CEC approves EnergyPro 9.0, pursuant to Energy Code section 10-109, for estimating energy consumed by residential, nonresidential, and multifamily buildings as specified in Public Resources Code section 25402.1(a), and for demonstrating compliance with the performance-based residential, nonresidential, and multifamily provisions of the *2022 Energy Code*, California Code of Regulations, Title 24, Parts 1 and 6; and

FURTHER BE IT RESOLVED, that the CEC directs the executive director or their designee to take all actions reasonably necessary to implement this resolution, including as follows:

- Post information on the CEC's public website as to how to obtain EnergyPro 9.0;

- Ensure that EnergyPro 9.0, a residential, nonresidential, and multifamily ACM, is maintained and revised to accurately estimate the energy use of residential, nonresidential, and multifamily buildings; and

- Review and approve updates to vender software, consistent with Section 1 of the *2022 ACM Approval Manual*.

CERTIFICATION

The undersigned Secretariat to the CEC 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 CEC held on December 14, 2022.

AYE:
NAY:
ABSENT:
ABSTAIN:

Dated:

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Liza Lopez
Secretariat