

**November 13, 2019 California Energy Commission Business Meeting.
Item 8. Variable Capacity Heat Pump (VCHP) Performance Compliance Option.**

[VCHP Compliance Option Final Staff Report](#)

<https://efiling.energy.ca.gov/GetDocument.aspx?tn=230470>

[Proceeding Docket Log, containing all documents filed in this proceeding and any documents filed after this was created on November 5, 2019](#)

<https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=19-BSTD-02>

STATE OF CALIFORNIA

**STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION**

RESOLUTION OF THE ENERGY COMMISSION APPROVING INCORPORATION OF VCHP COMPUTER ALGORITHMS INTO THE ALTERNATIVE CALCULATION METHOD AND THE RESIDENTIAL CALIFORNIA BUILDING ENERGY CODE COMPLIANCE PERFORMANCE COMPLIANCE SOFTWARE, AND USE OF ASSOCIATED FIELD VERIFICATION PROCEDURES IN DEMONSTRATING COMPLIANCE WITH STANDARDS SPECIFIED IN TITLE 24 PART 6, §150.1(B)

WHEREAS, the Warren-Alquist State Energy Resources Conservation and Development Act requires the California Energy Commission to, among other things, establish a formal process for certification of compliance options for new products, materials, and calculation methods; and

WHEREAS, the Energy Commission recently completed research relating to the in-situ performance of variable capacity heat pump (VCHP) space heating and cooling equipment; and

WHEREAS, as allowed by the 2019 Building Energy Efficiency Standards (Standards),² section 10-109, staff has developed an improvement to the Residential Alternative Calculation Method (ACM) and the associated California Building Energy Code Compliance (CBECC) software performance modeling of VCHP equipment based on this research; and

WHEREAS, staff has additionally drafted field verification procedures to ensure that equipment qualifying for this improvement is installed such that its modeled performance is realized;

THEREFORE, the Energy Commission approves inclusion of the modeling improvement for VCHP equipment into the Residential ACM and the CBECC performance compliance software; and

THEREFORE, the Energy Commission approves the use of specified field verification procedures in projects qualifying for and using the improved modeling of VCHP equipment.

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 CEC held on November 13, 2019.

AYE:

NAY:

ABSENT:

ABSTAIN:

Cody Goldthrite
Secretariat