California Energy Commission

Energy Efficiency Technical Support 2026-Request For Proposals (RFP)
Pre-bid Conference (RFP-25-801)
December 11, 2025

Housekeeping

- Workshop is being recorded
- Request for proposal webpage: RFP-25-801 - Energy Efficiency Technical Support 2026
- Virtual participation through Zoom
  - Raise hand or Q&A feature
  - Telephone participants dial *9 to raise your hand
- Written questions to Commission Agreement Officer

  Chester Hong, chester.hong@energy.ca.gov

  Subject: RFP-25-801 Pre-bid conference

  Deadline: December 11, 2025 by 5:00 PM

Background

Clean Energy and Pollution Reduction Act (Senate Bill 350, De León, Chapter 547, Statutes of 2015)

- Affirms objective to double statewide energy efficiency savings by 2030
- Includes programs that save energy using cleaner fuels to reduce greenhouse gas emissions
- Requires cost-effective and feasible solutions that do not adversely impact public health and safety
- Updates on progress toward achieving goal incorporated in 2019 California Energy Efficiency Action Plan
- Exists in the broader policy context of building decarbonization

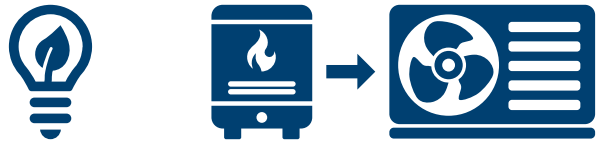
RFP-25-801 Timeline

Activity	Action Date
RFP Release	November 26, 2025
Deadline for Written Questions	December 11, 2025
Pre-Bid Conference	December 11, 2025
Distribute Questions/Answers and Addenda (if any) to RFP	December 29, 2025
Deadline to Submit Proposals by 11:59 p.m.	**January 12, 2026**
Notice of Proposed Award	February 23, 2026
Commission Business Meeting	May 8, 2026
Contract Start Date	July 1, 2026
Contract Termination Date	June 30, 2029

RFP-25-801 Purpose

The Energy Commission Seeks a Contractor to Assist in the Following Activities

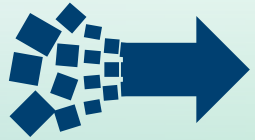
- Improve analytical methods for modeling energy efficiency and fuel substitution programs and incremental codes and standards



- Electrification potential and GHG emissions analysis

- Demand flexibility potential and scenarios analysis

- Common platform implementation support



Reference Documents (1 of 4)

Guiding Legislation and Legislative Reports	Topics
Senate Bill 350 (De León, Chapter 547, Statutes of 2015) California Energy Efficiency Action Plans and Energy Efficiency Savings Workbooks	AAEE[1] & AAFS[2]
Assembly Bill 3232 (Friedman, Chapter 373, Statutes of 2018) California Building Decarbonization Assessment (2021)	AAEE & AAFS, Demand Flexibility
Senate Bill 100 (De León, Chapter 312, Statutes of 2018) Senate Bill 100 Joint Agency Report (2021)	AAEE & AAFS, Demand Flexibility
Senate Bill 846 (Dodd, Chapter 239, Statutes of 2022) SB 846 Load Shift Goal Report (2023)	Demand Flexibility

[1]AAEE: Additional Achievable Energy Efficiency. [2]AAFS: Additional Achievable Fuel Substitution.

Reference Documents (2 of 4)

IEPR Forecast and Demand Scenarios	Topics
Integrated Energy Policy Reports (IEPR) and Forecast ▪ 2021 IEPR. See Building Decarbonization Volume 1, Pages 28-40), California Energy Demand Forecast (Volume 4, Pages 33-49 and Appendix A) ▪ 2023 IEPR	AAEE[1] & AAFS[2]
Demand Scenarios Project The scope of the project includes projections out to year 2050 for all significant energy types and associated greenhouse gas (GHG) emissions ▪ Demand Scenarios Project 2021 ▪ Demand Scenarios Project 2023	AAEE & AAFS, Demand Flexibility

[1]AAEE: Additional Achievable Energy Efficiency. [2]AAFS: Additional Achievable Fuel Substitution.

Reference Documents (3 of 4)

AAEE[1], AAFS[2], DFLEX modeling documentation	Topics
Fuel Substitution Scenario Analysis Tool (FSSAT) (2020)	AAEE & AAFS
2023 IEPR: Programs and Incremental Codes and Standards Modeling Assumptions	AAEE & AAFS
2024 IEPR: FSSAT Modeling Assumptions	AAEE & AAFS
Staff's Demand Flexibility Modeling Documentation (2025)	Demand Flexibility

Supplementary documentation	Topics
2022 California Commercial End Use Survey	AAEE & AAFS, Demand Flexibility
2019 Residential Appliance Saturation Survey	AAEE & AAFS, Demand Flexibility
CARB AB 32 Climate Change Scoping Plan	AAEE & AAFS

[1]AAEE: Additional Achievable Energy Efficiency. [2]AAFS: Additional Achievable Fuel Substitution.

Reference Documents (4 of 4)

All the above reference documents are on display and available for review in the CEC's Library.

Library hours are Monday - Friday from 8:30 a.m. to 4:30 p.m., closed for lunch 12:00-1:00 p.m. The Library is located at:

California Energy Commission
715 P Street, Third Floor
Sacramento, CA 95814
(916) 931-5326

RFP-25-801 Elements

Submission

- Proposed format, Required Documents, and Delivery

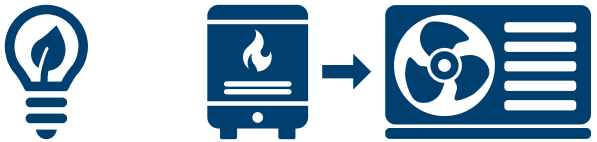
Proposed Evaluation (2 steps)

- Administrative and completeness screening
- Technical and cost evaluation of proposals (scoring scale is outlined in the RFP)

Task 1 – Contract Administration

- Includes invoicing, subcontractor management, progress reports, development of work authorizations, and final report

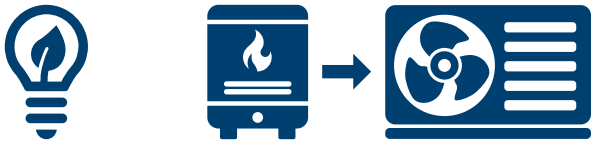
Scope of Work: Task 2 (1 of 3)



Task 2: Improve analytical methods for forecasting energy savings, impacts, and GHG reductions from energy efficiency and fuel substitution programs and incremental codes and standards

- Integration of verification methods using Evaluation, Measurement, and Verification (EM&V) reports from utilities and individual customer billing and metered data when available
- Integration of the California Technical Forum's eTRM (Electronic Technical Resource Manual) for documentation and all applicable measures
- Evaluation of the extent to which more granular historic Energy Efficiency (EE) data can be obtained from the CPUC and other sources for use in developing demand forecasts

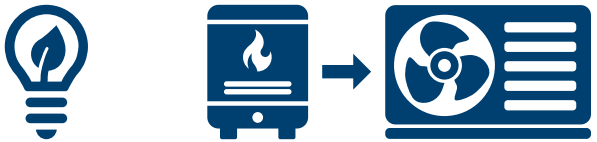
Scope of Work: Task 2 (2 of 3)



Task 2: Improve analytical methods for forecasting energy savings, impacts, and GHG reductions from energy efficiency and fuel substitution programs and incremental codes and standards

- Evaluation of the extent to which more geographically disaggregated data can be analyzed to reflect localized impacts such as those resulting from CCA and Regional Energy Network (REN) programs and local ordinances
- Evaluation of potential savings from emerging EE, electrification, and other decarbonization programs in all covered sectors
- Evaluation of new and updated potential savings from appliance and building standards at the state and federal levels
- Analyzing the impacts of changes in CPUC-regulated EE and other decarbonization programs resulting from CPUC's recent policy decisions

Scope of Work: Task 2 (3 of 3)



Task 2: Improve analytical methods for forecasting energy savings, impacts, and GHG reductions from energy efficiency and fuel substitution programs and incremental codes and standards

- Assessing the current programmatic hourly analysis and offering recommendations to incorporate improved load shapes, customer meter/billing data, and program data
- Assessing the long-term outlook for building and appliance standards beyond a 2030 time horizon
- Analyze and compare data sets obtained from decarbonization program installations or other available sources with individual customer billing and metered data

Scope of Work: Task 3 (1 of 3)

Task 3: Electrification potential and GHG emissions analysis

- Identify methods to improve the current CEC Fuel Substitution Scenario Analysis Tool (FSSAT)
- Detail the combined saturation of electrification measures, particularly the number of heat pumps installed, from Programs and incremental Codes and Standards (PiCS) Additional Achievable Fuel Substitution (AAFS) scenarios and FSSAT scenarios
- Propose performance improvements to staff's decarbonization modeling tools, products, and analyses using the CEC's Advanced Metering Infrastructure (AMI) data
- Identify the implications of the costs of decarbonization when considering the near- and long-term impacts from decarbonization efforts on electric and (renewable) gas rates and the infrastructure costs occurring at and outside the scope of a building

Scope of Work: Task 3 (2 of 3)

Task 3: Electrification potential and GHG emissions analysis

- Identify improvements in understanding electrification measure impacts with additional geographic granularity
- Incorporate any proposed changes to energy demand forecasting practices within the CEC
- Review and propose methods to quantify the benefits of decarbonization, with a focus on equity indicators
- Identify methods to enhance the analysis and characterization of electrification policies on new and existing buildings in the near and long term
- Identify and implement methods to improve the ability to observe hourly load impacts from electrification and the potential of load management strategies

Scope of Work: Task 3 (3 of 3)

Task 3: Electrification potential and GHG emissions analysis

- Prepare a modeling structure that improves the analysis of the long-term costs of electrification and considers efficiency and cost improvements stemming from market transformation
- Identify leakage components in the natural gas system that should be considered volumetric, constant, and thus predicted by fuel combustion in buildings connected to the natural gas distribution system
- Analyze how measures that mitigate non-combustion GHG sources reduce GHG emissions and change energy demand impacts
- Identify improvements in the modeling of added cooling load for heat pumps installed in buildings without prior access to air conditioning
- Prepare a comprehensive review of existing energy demand models

Scope of Work: Task 4 (1 of 2)

Task 4: Demand flexibility potential and scenarios analysis

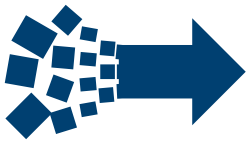
- Enhance an existing load flexibility and demand response scenario analysis tool
- Continue developing and improving the iterative interaction of demand flexibility tools with CEC supply modeling tools
- Develop new or enhance existing demand flexibility scenario tools
- Develop end-use load shapes informed by possible load-shifting and -shedding in the future
- Develop additional functionality for the demand flexibility tool
- Explore further developing the demand flexibility tool to fulfill any future legislative requirements

Scope of Work: Task 4 (2 of 2)

Task 4: Demand flexibility potential and scenarios analysis

- Improve tool outputs that could be leveraged by other CEC forecasting and scenario analysis efforts
- Update the calculation of end-user operational costs using hourly outputs, time-of-use rates, and additional emerging rate designs
- Pilot the use of interval meter data to create control groups for third-party demand response programs

Scope of Work: Task 5



Task 5: Common Platform implementation support

- Organize, Manage, and Integrate Data
  - Enhance the Common Platform's ontology and knowledge base
  - Integrate unstructured data sources (e.g., memos, reports, audio)
- Develop Models and Modeling Framework
  - Enhance predictive capabilities and automate complex modules
  - Incorporate collaborative quality assurance and quality control
  - Investigate how to leverage data from the Common Platform
  - Create opportunities to enhance productivity and collaboration

Evaluation Criteria

- The Maximum Points Available under this RFP are 100
- Minimum Passing Score is 70 (70%)

Scoring Scale

- Technical Approach (25 Points)
- Team Qualifications, Capabilities, and Resources (20 Points)
- Previous Work Products (10 Points)
- Specific Team Qualifications: Demand Forecasting (5 Points)
- Specific Team Qualifications: Energy Efficiency Analysis (5 Points)
- Specific Team Qualifications: Fuel Substitution (5 Points)
- Total Expected Labor Cost (30 Points)

Submitting Proposals

- Proposal format, required documents, and delivery are found in Section III (starting on page 18) of this RFP (RFP-25-801)
- The method of delivery for this solicitation is the CEC Grant Solicitation System, available at https://gss.energy.ca.gov/. This online tool allows applicants to submit their electronic documents to the CEC prior to the date and time specified in this solicitation.
- Deadline to Submit Proposals by 11:59 p.m. on January 12, 2026

Grounds to Reject a Proposal

Grounds to reject a proposal can be found on pages 42-43 of Application Manual

Confidential Information

No confidential information should be submitted (page 39 of Application Manual)

Submitting Questions

- During the RFP process, questions of clarification about this RFP must be directed to the Contracts Officer (Chester Hong, Commission Agreement Officer). You may ask questions at the Pre-Bid Conference, and you may submit written questions via mail or electronic mail. However, all questions must be received by 5:00 pm on December 11, 2025.
- The questions and answers will be posted on the Commission's website at: CEC Solicitations Webpage. RFP-25-801 - Energy Efficiency Technical Support 2026
- Any verbal communication with a Commission employee concerning this RFP is not binding on the State and shall in no way alter a specification, term, or condition of the RFP. Therefore, all communication should be directed in writing to Chester Hong, Commission Agreement Officer.

Contact Information

Chester Hong, Commission Agreement Officer
California Energy Commission
715 P Street, MS-18
Sacramento, California 95814
Telephone: (916) 890-4694
E-mail: chester.hong@energy.ca.gov

Questions?

Brian Samuelson (Brian.Samuelson@energy.ca.gov) &
Cynthia Rogers (Cynthia.Rogers@energy.ca.gov)
Advanced Electrification Analysis Branch
Energy Assessments Division