



California Energy Commission

Energy Efficiency Technical Support 2023-Request For Proposals (RFP)

December 16, 2022



Housekeeping

- Workshop is being recorded.
- Request for proposal webpage:
- <https://www.energy.ca.gov/solicitations/2022-11/rfp-22-801-energy-efficiency-technical-support-2023>
- Virtual participation through Zoom
 - Raise hand or Q&A feature
 - Telephone participants dial *9 to raise your hand
- Written questions to Commission Agreement Officer:
Eilene Cary, eilene.cary@energy.ca.gov
Subject: RFP-22-801 Pre-bid conference
Deadline: December 16, 2022 by 5:00 PM



Background

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

- Doubles 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 Timeline

ACTIVITY	ACTION DATE
RFP Release	November 30, 2022
Deadline for Written Questions *	December 16, 2022
Pre-Bid Conference *	December 16, 2022
Distribute Questions/Answers and Addenda (if any) to RFP	January 6, 2023
Deadline to Submit Proposals by 5:00 p.m. *	January 20, 2023
Notice of Proposed Award	February 15, 2023
Commission Business Meeting	May 10, 2023
Contract Start Date	July 1, 2023
Contract Termination Date	June 30, 2026



RFP Purpose

The Energy Commission seeks a contractor to assist in the following activities:

- Improve analytical methods for forecasting programmatic energy efficiency savings, impacts from electrification programs, and GHG reductions from decarbonization efforts.
- Assess electrification potential and GHG emission analysis.
- Survey and model low carbon behavior to inform statewide policy improvements.
- Evaluate demand response potential and demand flexibility modeling.
- Implement a common platform roadmap and implementation plan for energy modeling.



RFP Elements

- Submission
 - Proposal Format, Required Documents, and Delivery (starts on page 21)
- Proposal Evaluation (2 steps)
 - 1) Administrative and completeness screening
 - 2) 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: Improve analytical methods for forecasting programmatic energy efficiency savings impacts from electrification programs & GHG reductions from decarbonization efforts

- Evaluation, Measurement, and Verification (EM&V).
- Electronic Technical Resource Manual (eTRM).
- CPUC's California Energy Data and Reporting System (CEDARS) database.
- Building Initiative for Low-Emissions Development (BUILD) and Technology and Equipment for Clean Heating (TECH).
- CPUC-regulated EE programs and Rolling Portfolio decision.
- Energy Efficiency hourly processes.
- Building and appliance standards beyond a 2030 time horizon, including savings decay and technology replacement.



Scope of Work

Task 3: Electrification potential and GHG emissions analysis

- Categories of leakage in the natural gas system that should be considered volumetric and consideration of methods for projecting as part of demand forecast projections.
- GHG emission consequences and energy demand impacts.
- Cost and performance analysis of existing and emerging electric technologies.
- Hourly profiles for existing electric equipment and appliances.
- Implications on long-term decarbonization goals of transportation planning and infill housing.
- Electrification impacts to allocation of load to electric system busses, including additional transmission and distribution costs, as well as avoided costs from substituting gas.



Scope of Work

Task 4: Survey and model low carbon behavior to inform statewide policy improvements

- Develop and implement a specific market-based data collection scheme to inform the behavioral model.
- Translate results of scheme to enable improved energy models.
- Propose changes to energy models within the CEC that can incorporate changes in consumer behavior.



Scope of Work

Task 5: Demand response potential and demand flexibility scenarios analysis

- Enhance an existing load flexibility and demand response scenario analysis tool.
- Update the tool to receive inputs from other CEC tools.
- Improve tool outputs that could be leveraged by other CEC forecasting and scenario analysis efforts.
- Update the calculation of end-user operational costs.
- Pilot the use of interval meter data to create control groups for third-party demand response programs.
- Publish end use load shapes informed by possible load shifting and shedding in the future.
- Develop additional functionality for the load flexibility and demand response tool.
- Update the load flexibility and demand response tool output formats.



Scope of Work

Task 6: Common platform roadmap and implementation

- Organize, Manage, and Integrate Data
- Develop Models and Modeling Framework
- Generate Case Study Workflows and Workflow Management
- Construct Case Study Scenarios and Scenario Management
- Develop Case Study Data Interaction and Visualization
- Document Case Studies and Literature
- Create Case Study Repository
- Conduct Marketing and Outreach
- Facilitate Internal and External User Interaction



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 (25 Points)
- Other Direct Costs Mark Up (5 Points)



Submitting Proposals

- Proposal format, required documents, and delivery are found in Section III (page 21) of this RFP (RFP-22-801)
- 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 5:00 p.m. on January 20, 2023



Grounds to Reject a Proposal

Grounds to reject a proposal can be found on pages 43-46 of Application Manual



Confidential Information

No confidential information should be submitted (page 41 of Application Manual).



Submitting Questions

- During the RFP process, questions of clarification about this RFP must be directed to the Contracts Officer (Eilene Cary, 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 16, 2022.
- The questions and answers will be posted on the Commission's website at: CEC Solicitations Webpage. <https://www.energy.ca.gov/solicitations/2022-11/rfp-22-801-energy-efficiency-technical-support-2023>
- 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 Eilene Cary, Commission Agreement Officer.



Contact Information

- Eilene Cary, Commission Agreement Officer
California Energy Commission
715 P Street, MS-18
Sacramento, California 95814
Telephone: (916) 776-0739
E-mail: eilene.cary@energy.ca.gov



Questions?

