



Technical Support For Energy Assessments

**California Energy Commission
Request for Proposals RFP-23-802
Pre-Bid Conference**

Date: April 22, 2024



Housekeeping

- Workshop is being recorded.
- Virtual participation through Zoom
 - Raise your hand or use the Q&A feature
 - Telephone participants dial *9 to raise their hands
- Written questions to the Commission Agreement Officer:
Brad Worster, Brad.Worster@energy.ca.gov
Subject: RFP-23-802 - Technical Support For Energy Assessments

Deadline: April 22, 2024, by 5:00 PM (PDT)



Agenda

- **Welcome and Introductions**
- **RFP Overview**
- **Questions and Answers**
- **Conclusion**



Purpose of RFP

- Provide technical support to the Energy Assessments Division
- Assessments and forecasts of the energy industry's supply, production, transportation, delivery and distribution, demand, and prices.
- Analytical support for developing energy policies.



Scope of Work

- Task 1 - Agreement Management
- Task 2 - Electricity System and Infrastructure Analysis
- Task 3 - Improve Energy Demand Forecasting Methods And Conduct Other Energy Demand Analyses
- Task 4 - Natural Gas Assessments And Forecasting
- Task 5 - Data Management



Task 1: Agreement Management

Sub-Tasks:

1. Kick-off Meeting
2. Prepare and Submit Invoices Monthly
3. Prepare and Submit Progress Reports Monthly
4. Work Authorizations



Task 2: Electricity System and Infrastructure Analysis

- Provide expertise and analyses on the full range of electricity system resources, including fossil generation, solar, wind, energy storage, hydropower, geothermal, nuclear, and technologies using low-carbon fuels, such as renewable natural gas and hydrogen.
- Conduct analysis on resource plans for load serving entities in the California Independent System Operator and publicly owned utility territories to characterize trends and identify potential excesses or shortfalls in resource availability to meet system reliability requirement and state clean energy policies.
- Provide expertise and analyses on electric system reliability, including developing new or using existing CEC models to evaluate electric system reliability and risks to reliability at different time scales, such as imminent summer conditions, and longer outlooks (e.g., five-, ten-, and fifteen-year timescales).



Task 2: Electricity System and Infrastructure Analysis (Continued)

- Support tracking and evaluation of electricity system trends and issues across the western United States for their potential impact on California.
- Provide expertise on demand flexibility to support reliability and state clean energy goals.
- Provide support in analyzing current potential and future threats to energy systems (electricity, natural gas, and petroleum) in California to support CEC's emergency response role.
- Provide support in developing reports and presentations on electric system supply and reliability analyses for audiences of different technical levels.



Task 3: Improve Energy Demand Forecasting Methods and Conduct Other Energy Demand Analyses

- Provide objective and independent expert assistance to make recommendations for improvements in or modifications to electricity, natural gas, and transportation energy demand forecasting methods, models, and data availability.
- Recommend and implement a methodology to develop hourly load shapes for different geographic zones throughout the Western Electricity Coordinating Council region.
- Transfer or migrate energy demand models to modern platforms such as R or Python.
- Conduct energy use surveys or interviews. Provide analysis of information gathered during surveys or interviews and develop inputs to the forecasting models for the residential, commercial building, industrial, agricultural, and transportation sectors.



Task 3: Improve Energy Demand Forecasting Methods and Conduct Other Energy Demand Analyses (Continued)

- Provide analysis and data collection in support of efforts related to building and appliance standards, building electrification, energy efficiency and demand side programs and energy demand.
- Assess the impacts of climate change on energy demand and the uncertainty around energy demand. Assess drought impacts on the agricultural sector energy demand.
- Evaluate retail electricity and natural gas price forecasting methodologies for residential, commercial, industrial, and transportation sectors incorporating input variables used in developing the electricity demand forecast.
- Provide analytical support for sensitivity analysis and exploratory modeling to identify key uncertainties regarding customer demand and resources.
- Evaluate the potential future adoption, structure, and impact of new tariff rates on energy consumption and peak including time-of-use tariffs.
- Provide staff with training on forecasting methods and models, and other analytical techniques or methods that could be used to improve the CA Energy Demand Forecast.



Task 3: Improve Energy Demand Forecasting Methods and Conduct Other Energy Demand Analyses (continued)

- Analyze energy and travel demand impact of California's transportation decarbonization goals and strategies, such as electrification, shared and micro mobility, sustainable land use development, and alternative fuels (e.g., hydrogen).
- Develop recommendations for further geographic disaggregation of Energy Commission demand forecasts.
- Provide analysis and data collection in support of transportation energy demand forecasting.
- Provide analysis and data collection in support of developing electric vehicle charging load shapes that incorporate vehicle grid integration technologies and using EVs as battery storage.
- Identify, assess, and implement methodologies to forecast adoption of efficiency measures, building electrification measures, and demand response participation.



Task 4: Natural Gas Assessments and Forecasting

- Assessing California's gas transmission and distribution infrastructure, including gas storage facilities, pipelines, and other system components, in the context of operations, safety, and reliability.
- Assessing global, national, and local natural gas trends (including supply and prices), issues, and events and synthesizing the effects to California's natural gas market.
- Analyzing the operational interdependencies between the natural gas and electricity systems in California and west-wide.
- Hydraulic modeling methods for assessing gas system operations under various gas demand scenarios and making findings and recommendations.



Task 4: Natural Gas Assessments and Forecasting (Continued)

- Analyzing low carbon fuels, such as renewable natural gas and hydrogen, and their potential role in the state's efforts to decarbonize the natural gas system.
- Developing reports and presentations on natural gas system supply and reliability analyses for audiences of different technical levels.



Task 5: Data Management

- Provide technical support with the development and implementation of systems needed to organize, manage, and present large volumes of energy data stored in the data warehouse.
- Provide technical support in the development and implementation of data visualizations including tables, queries, views, scripts, reports, and other tools.
- Provide technical support to help facilitate working groups relevant to database structures, program requirements, and form development.
- Provide technical support, training, and best practices for cloud database management.



Eligible Bidders

- Bidders must meet all solicitation requirements.
- Private entities, non-profit organizations, and public sector entities that meet the solicitation requirements.
 - Private sector entities must agree to the Energy Commission's standard terms and conditions.
 - The University of California or the U.S. DOE National Laboratories must use either the standard or the pre-negotiated terms and conditions.
 - Public entities may participate as subcontractors if they cannot meet requirements or agree to the terms.
- All corporations, LLCs and LPs are required to register and be in good standing with the California Secretary of State.



Proposal Requirements

Proposals Consists of two Sections

Section 1: Administrative Response

- Cover Letter
- Table of Contents
- Contractor Status Form
- Darfur Contracting Act Form
- Small Business Certification (If applicable)
- Completed Disabled Veteran Business Enterprise form
- Bidder Declaration form GSPD-05-105
- Contractor Certification Clauses
- TACPA Forms
- Iran Contracting Act Form
- CA Civil Rights Laws Certification

Section 2: Technical Proposal and Cost Proposal

- Approach to Tasks in Scope of Work
- Organizational Structure
- Approach to Managing Work – Program Management
- Client References
- Previous Work Products (Optional)
- Budget Forms



Evaluation Process

- Stage One: Administrative and Completeness Screening
- Stage Two: Technical and Cost Evaluation of Proposals
 - The Maximum Points Available under this RFP are 100
 - Minimum Passing Score is 70%



Scoring

Technical	Possible Points
Approach to Tasks in the Scope of Work	55
Organization Structure	5
Approach to Managing Work – Program Management	10
Total	70

Cost Criteria	Possible Points
Total Expected Labor Costs (Cost Points)	15
Cost Justification (Cost Points)	5
Total	30



Disabled Veteran Business Enterprise (DVBE) Requirements

- This RFP is subject to mandatory certified DVBE participation of at least three percent (3%).
- Two Methods to Meet DVBE Participation Requirement
 1. If Bidder is a DVBE, then Bidder has satisfied the participation requirements if it commits to performing at least 3% of the contract with the Bidder's firm, or in combination with other DVBE(s).
 2. If Bidder is not a DVBE, Bidder can satisfy the requirement by committing to use certified DVBE Subcontractors for at least 3% of the contract.



How To Submit The Proposals

Method of submission is the Energy Commission 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.
- Electronic files must be in Microsoft Word and Excel Office Suite formats unless originally provided in the solicitation in another format.
- Attachments requiring signatures may be scanned and submitted in PDF format.
- Completed Budget Forms, Attachment 7, must be in Excel format.

Deadline to Submit Proposals **by 11:59 p.m.** on May 3, 2024



Tentative Key Activities and Dates

ACTIVITY	ACTION DATE
RFP Release	April 12, 2024
Deadline for Written Questions is 5:00 p.m. (PDT)	April 22, 2024
Pre-Bid Conference	April 22, 2024
Distribute Questions/Answers and Addenda (if any) to RFP	April 26, 2024
Deadline to Submit Proposals by 11:59 p.m.	May 3, 2024
Notice of Proposed Award	May 10, 2024
Commission Business Meeting	June 12, 2024
Contract Start Date	August 30, 2024
Contract Termination Date	August 30, 2027



Questions and Answers

- Please introduce yourself by stating your name and affiliation.
- Please follow up with your question in writing to ensure that it is captured properly.
- Our **official** response will be given in writing, and we anticipate it will be posted on the funding opportunity Solicitations webpage by end of this week.
- Questions are Due by 5 PM today, April 22, 2024
- Submit written questions to Commission Agreement Officer:
 - Brad Worster: Brad.Worster@energy.ca.gov
 - Subject: RFP-23-802 - Technical Support For Energy Assessments



Whom to Contact?

Commission Agreement Officer

Brad Worster

E-mail: Brad.Worster@Energy.ca.gov



Thank You!

