



**California Energy Commission
June 22, 2026 Business Meeting
Backup Materials for Eagle Rock Analytics, Inc.**

The following backup materials for the above-referenced agenda item are available in this PDF packet as listed below:

1. Proposed Resolution
2. Contract Request Form
3. Scope of Work

CALIFORNIA ENERGY COMMISSION

PROPOSED RESOLUTION: Eagle Rock Analytics, Inc.

RESOLUTION NO: 26-0622-XX

RESOLVED, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the CEC approves Agreement 800-25-008 with Eagle Rock Analytics, Inc. for a \$400,000 contract to provide technical support on processing and translating climate datasets, evaluating demand and supply modeling approaches, preparation of technical documentation, and miscellaneous analytical assistance in California; and

FURTHER BE IT RESOLVED, that the Executive Director or their designee shall execute the same on behalf of the CEC.

APPROVED AND ADOPTED this 22 day of June 2026, by the following vote:

AYE:

NAY:

ABSENT:

ABSTAIN:

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 approved and adopted by affirmative vote of the CEC at a meeting held on June 22, 2026.

Kim Todd
Secretariat



CONTRACT REQUEST FORM (CRF)

A. New Agreement Number

IMPORTANT: New Agreement # to be completed by Contracts, Grants, and Loans Office.

New Agreement Number: 800-25-008

B. Division Information

1. Division Name: Energy Assessments Division
2. Agreement Manager: Lakemariam Worku
3. MS-“Not Applicable”
4. Phone Number: 916-940-5472

C. Contractor’s Information

1. Contractor’s Legal Name: Eagle Rock Analytics, Inc.

D. Title of Project

Title of project: Improvements to Modeling Climate Data in Demand Forecasting

E. Term and Amount

1. Start Date: June 22, 2026
2. End Date: June 30, 2028
3. Amount: \$373,391.00

F. Business Meeting Information

1. Operational agreement to be approved by Executive Director? No
2. Are the ARFVTP agreements \$75K and under delegated to Executive Director? No
3. The Proposed Business Meeting Date: 06-22-2026
4. Consent or Discussion? Consent
5. Business Meeting Presenter Name: Lakemariam Worku
6. Time Needed for Business Meeting: N/A
7. The email subscription topic is: Energy Topics, Climate Change Issues Topics

Project Description:

Eagle Rock Analytics Inc. Proposed resolution approving Agreement 800-25-008 with Eagle Rock Analytics Inc. for a \$373,391.85 contract to provide technical support on processing and translating climate datasets, evaluating demand and supply modeling approaches, preparation of technical documentation, and miscellaneous analytical assistance. (General Funding) Contact: Lakemariam Worku

G. California Environmental Quality Act (CEQA) Compliance

1. Is Agreement considered a “Project” under CEQA?

No

If yes, skip to question 2.

If no, complete the following (PRC 21065 and 14 CCR 15378) and explain why Agreement is not considered a “Project”:

Agreement will not cause direct physical change in the environment or a reasonably foreseeable indirect physical change in the environment because: work under contract is to provide technical support to CEC staff to improve the use of climate data in electricity and gas demand and supply models.



2. If Agreement is considered a “Project” under CEQA answer the following questions.

a) Agreement **IS** exempt?

No

Statutory Exemption?

No

If yes, list PRC and/or CCR section number(s) and separate each with a comma. If no, enter “None” and go to the next question.

PRC section number: None

CCR section number: None

Categorical Exemption?

No

If yes, list CCR section number(s) and separate each with a comma. If no, enter “None” and go to the next question.

CCR section number: None

Common Sense Exemption? 14 CCR 15061 (b) (3)

No

If yes, explain reason why Agreement is exempt under the above section. If no, enter “Not applicable” and go to the next section.

“Not applicable”

b) Agreement **IS NOT** exempt.

IMPORTANT: consult with the legal office to determine next steps.

Yes

If yes, answer yes or no to all that applies. If no, list all as “no” and “None” as “yes”.

Additional Documents	Applies
Initial Study	No
Negative Declaration	No
Mitigated Negative Declaration	No
Environmental Impact Report	No
Statement of Overriding Considerations	No
None	Yes

H. Is this project considered “Infrastructure”?

No

I. Subcontractors

List all Subcontractors listed in the Budget (s). Insert additional rows if needed. If no subcontractors to report, enter “No subcontractors to report” and “0” to funds. **Delete** any unused rows from the table.

Subcontractor Legal Company Name	Budget
C Infinity Solutions LLC	\$ 40,000



Subcontractor Legal Company Name	Budget
Energy and Environmental Economics, Inc. (E3)	\$ 20,000
Electric Power Research Institute, Inc. (EPRI)	\$ 74,271

J. Key Partners

List all key partner(s). Insert additional rows if needed. If no key partners to report, enter “No key partners to report.” **Delete** any unused rows from the table.

Key Partner Legal Company Name
No Key partners to report

K. Budget Information

Include all budget information. Insert additional rows if needed. If no budget information to report, enter “N/A” for “Not Applicable” and “0” to Amount. **Delete** any unused rows from the table.

Funding Source	Funding Year of Appropriation	Budget List Number	Amount
General	2025-2026	800.100	\$\$373,391.00

TOTAL Amount: \$\$373,391.00

R&D Program Area:

Explanation for “Other” selection

Reimbursement Contract #:

Federal Agreement #:

L. Contractor’s Contact Information

1. Contractor’s Administrator/Officer

Name: Owen Doherty

Address: 3669 57th Street

City, State, Zip: Sacramento, CA, 95820

Phone: 631-766-7406

E-Mail : owen@eaglerockanalytics.com

2. Contractor’s Project Manager

Name: Owen Doherty

Address: 3669 57th Street

City, State, Zip: Sacramento, CA, 95820

Phone: 631-766-7406

E-Mail: owen@eaglerockanalytics.com



M. Selection Process Used

There are three types of selection process. List the one used for this CRF.

Selection Process	Additional Information
Competitive Solicitation #	RFP-25-803, 8 bids
Non Competitive Bid (<i>Attach DGS-GSPD-09-007</i> https://www.dgs.ca.gov/PD/Forms)	“Not Applicable”
Exempt	“Not Applicable”

N. Contractor Entity Type

Contractor Entity Type	Yes or No?
Private Company (<i>including non-profits</i>)	Yes
CA State Agency (<i>including UC and CSU</i>)	No
Government Entity (<i>i.e. city, county, federal government, air/water/school district, joint power authorities, university from another state</i>)	No

O. Is Contractor a certified Small Business (SB), Micro Business (MB) or Disabled Veterans Business Enterprise (DVBE)?

The contractor is a certified: SB

P. Civil Service Considerations

- a. Not Applicable (Agreement is with a CA State Entity or a membership/co-sponsorship)? No
- b. Public Resources Code 25620, et seq., authorizes the Commission to contract for the subject work. (PIER) No
- c. The Services Contracted: Yes

If no, go to the next question. If yes, which of the following applies to the contract? More than one can apply, list each answer choice, and separate them with a comma:

- are not available within civil service



- cannot be performed satisfactorily by civil service employee
- are of such a highly specialized or technical nature that the expert knowledge, expertise, and ability are not available through the civil service system

The following applies to the contract: “are of such a highly specialized or technical nature that the expert knowledge, expertise, and ability are not available through the civil service system”.

- d. The Services are of such an urgent, temporary, or occasional nature that the delay to implement under civil service would frustrate their very purpose?

“Urgent”.

Justification:

Work for this contract is highly specialized and technical nature that the expert knowledge, expertise, and ability are not available through the civil service system. In addition, the work requires extensive computational resources which CEC does not have at this time.

Q. Payment Method

1. Is the payment method Reimbursement, Advanced Payment, or Other?

“Reimbursement”

If Other, explain:

2. If Reimbursement, is it in arrears based on Itemized Monthly, Itemized Quarterly, Flat Rate, or One-time?

“Itemized monthly”

R. Retention

Is Agreement subject to retention? Yes.

If Yes, Will retention be released prior to Agreement termination? Yes

S. Justification of Rates

Based on expected hours by task and classifications required to perform the tasks.

T. Disabled Veteran Business Enterprise Program (DVBE)

Provide requested additional information.

1. Exempt (Interagency/Other Government Entity) No.
2. Meets DVBE Requirements DVBE Yes.
Amount: \$ 40,000 DVBE %:10
3. Is the Contractor Certified DVBE or Subcontracting with a DVBE? If subcontracting with a DVBE, provide the name of the DVBE company. If none applies, enter “Not Applicable”.

C Infinity Solutions LLC

4. Contractor selected through CMAS or MSA with no DVBE participation No.
5. Requesting DVBE Exemption (attach CEC 95) No.

U. Miscellaneous Agreement Information



1. Will there be Work Authorizations? No.
2. Is the contractor providing confidential information? No.
3. Is the contractor going to purchase equipment? No.
4. What is the check frequency of the progress reports? Monthly, Quarterly, or Other? If Other, please provide explanation.

Monthly

5. Will a final report be required? Yes.
6. Is the Agreement, with amendments, longer than three years? If yes, why?
No

V. The following items should be attached to this CRF (as applicable)

List all items that should be attached to this CRF by entering "Yes" or "No".

Item Number	Item Name	Attached
1	Exhibit A, Scope of Work/Schedule	Yes
2	Exhibit B, Budget Detail	Yes
3	DGS-GSPD-09-007, NCB Request	No
4	CEC 95, DVBE Exemption Request	No
5	Awardee CEQA Documentation	No
6	Resumes	Yes
7	CEC 105, Questionnaire for Identifying Conflicts	Yes

Approved By

Individuals who approve this form must enter their full name and approval date in the MS Word version.

Agreement Manager:

Approval Date: Lakemariam Workie 4/29/2026

Office Manager:

Approval Date: Heidi Javanbakht 4/29/2026

Deputy Director:

Approval Date: Alessia Gutierrez 4/29/2026

SCOPE OF WORK

TASK LIST

Task #	Task Name
1	Agreement Management
2	Climate Data Processing and Model Input Development
3	Modeling Approaches Review, Stochastic Dataset Development, and Technical Support
4	Workshops, Stakeholder Engagement, and Communication Support
5	Miscellaneous Technical Support (10% Contingency)

ACRONYMS/GLOSSARY

Specific acronyms and terms used throughout this scope of work are defined as follows:

Acronym/Word	Definition
CAO	Commission Agreement Officer
CAM	Commission Agreement Manager
GCM	Global Climate Model
WRF	Weather Research and Forecasting
CEC	State Energy Resources Conservation and Development Commission or as commonly called, the California Energy Commission
EAD	Energy Assessments Division
LOCA2-Hybrid	Localized Constructed Analogs Version 2.0
IEPR	Integrated Energy Policy Report
CAISO	California Independent System Operator
HDD	Heating Degree Days
CDD	Cooling Degree Days

BACKGROUND

California's electricity system is undergoing a transformative transition toward zero-carbon energy, with major implications for electricity supply, demand, operations, infrastructure, and long-term planning. As climate change accelerates, the electricity system will face increasing stress from heat waves, storms, wildfires, and climate-driven variability in weather patterns. These factors influence hourly load patterns, distributed energy resources, system reliability, and grid planning decisions across multiple time horizons.

Senate Bill (SB) 1389 (Bowen, Chapter 568, Statutes of 2002) requires the CEC to prepare a biennial Integrated Energy Policy Report (IEPR). As required by Public Resources Code 25301(a), the report contains "assessments and forecasts of all aspects of energy industry supply, production, transportation, delivery and distribution, demand and prices." These robust assessments are essential in electric grid system planning and electricity procurement, informing the CAISO Transmission Planning Process, California Public Utilities Commission (CPUC) Integrated Resource Planning, Distribution Planning Process, and Resource Adequacy work, along with other reliability studies such as the SB 100 Joint State Agency

Report. The assessments require forecasts estimating the impacts of future weather and climate projections on annual and hourly energy demand. In the 2023 IEPR, CEC began analyzing and leveraging Global Climate Models (GCMs) data to estimate climate trends and incorporate them into the forecast. In the 2024 IEPR cycle, a workshop on July 30, 2024 featured presentations by CEC staff and contractors on the development of downscaled, bias-corrected projections over California at a 3-kilometer by 3-kilometer spatial resolution and translating the projections into inputs to be used in the forecast to calculate impacts on annual and hourly demand. While the 2023 forecast used hourly output from four Weather Research and Forecasting (WRF) models localized to specific weather stations used within the CEC's forecast models, four additional WRF model runs became available during the 2024 cycle. Staff compared the two vintages of model runs, and the potential impacts of using the new model results which suggest a significantly warmer climate. These findings result in higher electricity loads if used in the forecast. The 2024 and 2025 IEPR cycles have continued to use the initial WRF run data, but work has continued to understand potential ways to incorporate the new WRF model data. This includes analyzing impacts on peak demand, and average level of heating degree days (HDD) and cooling degree days (CDD) from the initial and new WRF runs.

To meet California's energy goals and enhance the way that the energy demand forecast accounts for climate change, there is an urgent need to incorporate improved climate data, downscaled projections, and advanced modeling techniques into electricity and gas demand forecasting, system planning tools, and resilience analyses. This contract is intended to provide technical expertise, climate-data processing, and modeling support aligned with ongoing interagency research efforts to continue the work on improving methods for preparing GCM data inputs for use in the CA energy demand forecast.

The selected contractor will:

1. Process and translate climate datasets (WRF, LOCA2-Hybrid, and related downscaled products) into hourly, model-ready inputs suitable for energy system planning tools.
2. Support evaluation and refinement of modeling approaches, including the creation of stochastic datasets, energy demand forecast models, and analysis of approaches used by state agencies and research partners.
3. Prepare technical documentation, reports, slides, and outreach materials, and support coordination with multiple stakeholder groups.
4. Provide technical troubleshooting, miscellaneous analytical assistance, and ongoing support as directed by the Contract Agreement Manager (CAM).

This effort will strengthen statewide analytic capabilities for integrating climate variability, climate extremes, electrification trends, distributed energy resources, and load-modifying behaviors into energy sector planning.

GENERAL REQUIREMENTS OR GOALS AND OBJECTIVES

TASK 1: General Requirements or Goals and Objectives

TASK 1.1 KICK-OFF MEETING

The goal of this task is to establish the lines of communication and procedures for implementing this Agreement.

The Contractor shall:

Attend a “kick-off” meeting with the CAM, and the Commission Agreement Officer (CAO). The meeting will be held virtually. The Contractor shall include their Project Manager, Contracts Administrator, Accounting Officer, and others designated by the CAM in this meeting. The administrative and technical aspects of this Agreement will be discussed at the meeting.

- If necessary, prepare an updated Schedule of Deliverables based on the decisions made in the kick-off meeting

The CAM shall:

- Arrange the meeting including scheduling the date and time
- Provide an agenda to all potential meeting participants prior to the kick-off meeting

Deliverables:

- An Updated Schedule of Deliverables (if applicable)

TASK 1.2 INVOICES

Expected General Classifications: Accountant, Analyst, Scientist, Engineer, Project Manager, Director

The Contractor shall:

- Prepare invoices for all reimbursable expenses incurred performing work under this Agreement in compliance with the Exhibit B of the Terms and Conditions of the Agreement. Invoices shall be submitted with the same frequency as progress reports (task 1.4). Invoices must be submitted to the Energy Commission’s Accounting Office.

Deliverables:

Invoices

TASK 1.3 MANAGE SUBCONTRACTORS

The goal of this task is to ensure quality products, to enforce Subcontractor Agreement provisions, and in the event of failure of the Subcontractor to satisfactorily perform services, recommend solution(s) to resolve the problem(s).

Expected General Classifications: Project Manager, Director

The Contractor shall:

Manage and coordinate Subcontractor activities. The Contractor is responsible for the quality of all Subcontractor work and the CEC will assign all work to the Contractor. If the Contractor decides to add new Subcontractors, they shall 1) comply with the Terms and Conditions of the Agreement, and 2) notify the CAM who will follow the Energy Commission’s process for adding or replacing Subcontractors.

TASK 1.4 PROGRESS REPORTS

The goal of this task is to periodically verify that satisfactory and continued progress is made towards achieving the objectives of this Agreement.

Expected General Classifications: Project Manager, Director

The Contractor shall:

Prepare progress reports which summarize all Agreement activities conducted by the Contractor for the reporting period, including an assessment of the ability to complete the Agreement within the current budget and any anticipated cost overruns. Each progress report is due within 15 calendar days after the end of the reporting period. The CAM will provide the format for the progress reports.

Deliverables:

Monthly Progress Reports

TASK 1.5 FINAL REPORT

Expected General Classifications: Project Manager, Director

The goal of this task is to prepare a comprehensive written final report that describes the original purpose, approach, results, and conclusions of the work completed under this Agreement. The final report shall be prepared in language easily understood by the public or layperson with a limited technical background.

The final report must be completed before the termination date of the Agreement in accordance with the schedule of deliverables.

The final report shall be a public document. If the Contractor has obtained confidential status from the CEC and will be preparing both a public and a confidential version of the final report, the Contractor shall perform the following subtasks for both the public and confidential versions of the final report.

Deliverables:

- Draft Reports
- Final Reports

TASK 2: CLIMATE DATA PROCESSING AND MODEL INPUT DEVELOPMENT

The purpose of this task is to provide support and continue ongoing work to expand and enrich the consideration of climate change within the CEC's long-term energy demand forecast. The contractor shall review and consider current CEC demand forecast products, methods, inputs, constraints, and data formats. The contractor shall review and consider publicly available climate-related datasets and analytic tools, including, but not limited to, resources available on the Cal-adapt platform. The contractor will work with CEC staff to translate climate model outputs into correlated datasets usable as demand forecast and supply model inputs. The contractor shall build off the currently used methods and perform novel analyses of climate data which address challenges in forecasting future weather such as, without limitation, accounting for increased occurrences of heat waves, snowpack and water availability, wildfires, and other climate impacts on energy demand in California. Work includes, but is not limited to:

- Preparing correlated, climate-impacted projections of key weather-related energy supply and demand model inputs, including, but not limited to, heating- and cooling-degree-days, temperature, windspeed, cloud cover, solar irradiance, and water availability
- Analyzing and comparing large data sets of weather-related variables including, but not limited to, historical weather-station data, climate model outputs, and CEC demand model inputs
- Identifying, diagnosing, and resolving issues of bias within climate-impacted CEC demand model inputs
- Recommending and documenting refinements to existing strategies for incorporating climate projections into the CEC's annual and hourly electricity demand modeling and into the CEC's daily gas demand modeling

Deliverables:

- Climate-impacted supply and demand model inputs
- Technical memos summarizing analyses, discoveries and methods
- Code used to conduct the climate data analyses

TASK 3: MODELING APPROACHES REVIEW, STOCHASTIC DATASET DEVELOPMENT, AND TECHNICAL SUPPORT

The purpose of this task is to review current forecast modeling methods and to find novel approaches to incorporating climate model projections into CEC forecast models that currently do not use climate data. CEC staff seek to produce distributions of correlated, climate-impacted hourly profiles for weather-sensitive components of the demand forecast (stochastic datasets) such as photovoltaic (PV) generation and Additional Achievable Fuel Substitution (AAFS) models. Additionally, CEC staff seek to produce distributions of correlated, climate-impacted hourly profiles for wind generation. Under the direction of the CAM, the contractor shall focus efforts on specific segments of the forecast. The contractor shall also review and consider factors including, but not limited to, dependent use cases and stakeholder guidance in order to identify modeling improvement opportunities that promote alignment across inter-agency modeling efforts and with industry best practices. The contractor shall review current CEC methods, identify strategies for developing climate-impacted stochastic data sets, and develop corresponding climate-impacted forecast model inputs consistent with work done under Task 2. Activities include, without limitation:

- Reviewing structural and methodological aspects of CEC models
- Identifying and documenting strategies for incorporating climate projections into CEC forecast models
- Producing model inputs and supporting documentation

Deliverables:

- Climate-impacted supply and demand model inputs
- Accompanying code and technical documentation
- Technical memos on model reviews and findings

TASK 4: WORKSHOPS, STAKEHOLDER ENGAGEMENT, AND COMMUNICATION SUPPORT

The purpose of this task is to provide support at internal and external meetings and workshops. Such meetings may include but are not limited to: management and Commissioner briefings, Integrated Energy Policy Report (IEPR) workshops, Demand Analysis Working Group (DAWG) meetings, and informal discussions with stakeholders. Under the direction of the CAM, the contractor shall develop slide decks, briefing memos, reports, and responses to stakeholder inquiries that communicate the work performed under this contract. The contractor shall also present at workshops, technical meetings, and participate in working groups as directed by the CAM. All materials will be reviewed by the CAM before being posted online or shared with stakeholders. The contractor shall support outreach, stakeholder engagement, and communication activities, including, without limitation:

- Preparing workshop slides, technical briefings, and presentation materials
- Presenting at 2 IEPR workshops and 2 technical meetings as directed (e.g. DAWG)
- Participating in climate-related working groups (e.g. CDAWG)
- Drafting reports, technical memos, and responses to stakeholder inquiries

Deliverables:

- Workshop slide decks
- Written technical materials and meeting summaries
- Draft and final report sections as assigned

TASK 5: MISCELLANEOUS TECHNICAL SUPPORT (10% CONTINGENCY)

The purpose of this task is to provide support on an ad-hoc basis for additional climate data tasks as directed by the CAM. The contractor shall provide additional analytical support, modeling assistance, climate data interpretation, or related tasks as directed by the CAM. These tasks may include urgent or ad-hoc technical analyses.

Deliverables:

- Technical memos or datasets as assigned by the CAM
- Corresponding analytical code as assigned by the CAM (if applicable)