



STATE OF CALIFORNIA

CONTRACT REQUEST FORM (CRF)

CEC-94 (Revised 12/2019)

CALIFORNIA ENERGY COMMISSION

A) Agreement # 800-22-001 (to be completed by CGL office)

B) Division	Agreement Manager:	MS-	Phone
800-Energy Assessments	Nicholas Janusch	22	916-891-8519

C) Contractor's Legal Name	Federal ID #
The Board of Trustees of the Leland Stanford Junior University	94-1156365

D) Title of Project
Energy Modeling Forum Affiliates Program

E) Term and Amount

Start Date	End Date	Amount
August /10 /2022	June / 30 / 2023	\$25,000

F) Business Meeting Information

☐ Operational agreement (see CAM Manual for list) to be approved by Executive Director

☐ ARFVTP agreements \$75K and under delegated to Executive Director

Proposed Business Meeting Date 08 / 10 / 2022 ☒ Consent ☐ Discussion

Business Meeting Presenter NA Time Needed: NA minutes

Please select one list serve. Select

Agenda Item Subject and Description:

The Board of Trustees of the Leland Stanford Junior University-Proposed resolution approving Agreement 800-22-001 with The Board of Trustees of the Leland Stanford Junior University for a \$25,000 one-year contract for the CEC to be a member of the Energy Modeling Forum (EMF) Affiliates Program. The purpose of the membership is to participate in an energy-environmental network of experts and modelers working on the EMF 37 High Electricity Futures study, which seeks to explore the opportunities, limitations, trade-offs, and robustness of results associated with high electrification in North America. (ERPA funding). Contact: Nicholas Janusch

G) California Environmental Quality Act (CEQA) Compliance

1. Is Agreement considered a "Project" under CEQA?

☐ Yes (skip to question 2) ☒ No (complete the following (PRC 21065 and 14 CCR 15378)):

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 is a membership.

2. If Agreement is considered a "Project" under CEQA:

a) ☐ Agreement **IS** exempt.

☐ Statutory Exemption. List PRC and/or CCR section number:



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☐ Categorical Exemption. List CCR section number:☐ Common Sense Exemption. 14 CCR 15061 (b) (3) Explain reason why Agreement is exempt under the above section:b) ☐ Agreement **IS NOT** exempt. (consult with the legal office to determine next steps)

Check all that apply

☐ Initial Study☐ Negative Declaration☐ Mitigated Negative Declaration☐ Environmental Impact Report☐ Statement of Overriding Considerations**H) List all subcontractors (major and minor) and equipment vendors: (attach additional sheets as necessary)**

Legal Company Name:	Budget
	\$ 0.00
	\$ 0.00
	\$ 0.00

I) List all key partners: (attach additional sheets as necessary)

Legal Company Name:

J) Budget Information

Funding Source	Funding Year of Appropriation	Budget List Number	Amount
Funding Source ERPA	22/23	100.022	\$25,000
Funding Source			\$
Funding Source			\$
Funding Source			\$
Funding Source			\$

R&D Program Area: Select Program Area TOTAL: \$25,000

Explanation for "Other" selection

Reimbursement Contract #:

Federal Agreement #:

K) Contractor's Contact Information**1. Contractor's Administrator/Officer**

Name: John P. Weyant

Address: Huang Engineering
Center, Room 260, 475 Via Ortega,
Second Floor, Stanford UniversityCity, State, Zip: Stanford, CA
94305-4121

Phone: (650) 723-0645

E-Mail: weyant@stanford.edu

2. Contractor's Project Manager

Name: John P. Weyant



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Address: Huang Engineering
Center, Room 260, 475 Via Ortega,
Second Floor, Stanford University

CALIFORNIA ENERGY COMMISSION

City, State, Zip: Huang Engineering
Center, Room 260, 475 Via Ortega,
Second Floor, Stanford University

Phone: (650) 723-0645

E-Mail: weyant@stanford.edu

L) Selection Process Used

- ☐ Solicitation Select Type Solicitation #: - - # of Bids: Low Bid ☐ No ☐ Yes
☐ Non Competitive Bid (Attach DGS-GSPD-09-007 <https://www.dgs.ca.gov/PD/Forms>)
☒ Exempt Select Exemption (see instructions)

M) Contractor Entity Type

- ☒ Private Company (including non-profits)
☐ CA State Agency (including UC and CSU)
☐ Government Entity (i.e. city, county, federal government, air/water/school district, joint power authorities, university from another state)

N) Is Contractor a certified Small Business (SB), Micro Business (MB) or DVBE?

If yes, check appropriate box(es): ☐ SB ☐ MB ☐ DVBE

O) Civil Service Considerations

- ☒ Not Applicable (Agreement is with a CA State Entity or a membership/co-sponsorship)
☐ Public Resources Code 25620, et seq., authorizes the Commission to contract for the subject work. (PIER)
☐ The Services Contracted:
☐ are not available within civil service
☐ cannot be performed satisfactorily by civil service employees
☐ 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 Services are of such an:
☐ urgent
☐ temporary, or
☐ occasional nature
that the delay to implement under civil service would frustrate their very purpose.

Justification:

P) Payment Method

1. ☒ Reimbursement in arrears based on:
☐ Itemized Monthly ☐ Itemized Quarterly ☐ Flat Rate ☒ One-time
2. ☐ Advanced Payment
3. ☐ Other, explain:

Q) Retention

Is Agreement subject to retention? ☒ No ☐ Yes

If Yes, Will retention be released prior to Agreement termination? ☐ No ☐ Yes

R) Justification of Rates



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Membership dues are set by the organization. Dues are consistent for entities at this membership level.

S) Disabled Veteran Business Enterprise Program (DVBE)

1. ☐ Exempt (Interagency/Other Government Entity)
2. ☐ Meets DVBE Requirements DVBE Amount:\$ 0 DVBE %:
 - a. ☐ Contractor is Certified DVBE
 - b. ☐ Contractor is Subcontracting with a DVBE: Name of DVBE Company
3. ☐ Contractor selected through CMAS or MSA with no DVBE participation
4. ☒ Requesting DVBE Exemption (attach CEC 95)



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T) Miscellaneous Agreement Information

1. Will there be Work Authorizations? ☒ No ☐ Yes
2. Is the Contractor providing confidential information? ☒ No ☐ Yes
3. Is the contractor going to purchase equipment? ☒ No ☐ Yes
4. Check frequency of progress reports
☐ Monthly ☐ Quarterly ☒ None
5. Will a final report be required? ☒ No ☐ Yes
6. Is the Agreement, with amendments, longer than three years? If yes, why? ☒ No ☐ Yes

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

- | | | |
|---|---|--|
| 1. Exhibit A, Scope of Work | <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> Attached |
| 2. Exhibit B, Budget Detail | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Attached |
| 3. DGS-GSPD-09-007, NCB Request | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> Attached |
| 4. CEC 95, DVBE Exemption Request | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Attached |
| 5. CEQA Documentation | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> Attached |
| 6. Resumes | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> Attached |
| 7. CEC 105, Questionnaire for Identifying Conflicts | | <input checked="" type="checkbox"/> Attached |

Nicholas Janusch
Agreement Manager

6/28/2022
Date

Nicholas Janusch

Heidi Javanbakht
Office Manager

6/28/2022
Date

Heidi Javanbakht

Aleecia Gutierrez
Deputy Director

6/28/2022
Date

Amanda Poletti for Aleecia Gutierrez

Exhibit A
Interagency Agreement

Scope of Work

The purpose of this Agreement is for the Energy Commission to be a member of Stanford University's Energy Modeling Forum (EMF) Affiliates Program. The EMF brings together leading experts and decisionmakers from government, industry, universities, and other research organizations to study important energy and environmental issues. The EMF provides a non-partisan platform for leading experts and advisors.

The EMF is currently working on the High Electricity Futures study, which aims to understand the potential role for electrification under economy-wide decarbonization pathways in important economic sectors—transportation, buildings, and industry. Much of the deep decarbonization literature points to the decarbonization of the power sector followed by the electrification of the economy, but there is a lack of consensus on the ultimate potential for electrification, and rate at which it can be implemented given technical, behavioral, and economic limits – and competition from other promising emission mitigation options. This study is being designed to explore the opportunities, limitations, trade-offs, and robustness of results associated with high electrification in North America. Since the initial launch of the study, net-zero emissions targets have gained significant policy relevance. A major motivation for this study is to improve the modeling community's ability to analyze net-zero pathways.

Major issues and questions for this study include:

- What roles do the transportation, buildings, and industry sectors play in reaching economy-wide net-zero emissions goals?
 - How do differing pathways for technology, behavioral change, and complimentary policies impact sectoral pathways in deep decarbonization scenarios?
 - How do carbon management technologies impact net-zero scenarios?
 - Can we improve how economy-wide and energy system models represent these deep decarbonization pathways through exchanges between modeling groups and sectoral experts?
- To what extent can the transportation, buildings, and industrial sectors be electrified, particularly in the context of policies to achieve deep decarbonization and “net-zero” emissions? How might technological and behavioral change, decarbonization efforts alter the extent of electrification?
 - Beyond decarbonization efforts, what are the key drivers of electrification in the transportation, buildings, and industrial sectors?
 - How might the availability of other decarbonization options such as carbon management and low-carbon fuel sources (e.g., biofuels or hydrogen in various forms) compete with electricity to moderate the extent of electrification?
- What are the implications of high electrification scenarios on the energy system and economic and environmental outcomes in North America in reference projections and across a range of decarbonization scenarios?
- How does technological change in the power sector shape electrification pathways?

Exhibit A
Interagency Agreement

The study is designed to engage all energy and economy-wide models as well as sectoral and technology experts forming study groups focused on transportation, industry, buildings, and carbon management.

The Energy Assessments Division will benefit from EMF membership through discussions with leading experts in the field, knowledge of a range of different models to help with forecasts and energy planning, and policy-evaluation frameworks meant to improve public policy. Other benefits include an annual conference, access to a broad range of contacts, professional interactions with Stanford faculty, staff, and students, access to research results, and feedback on modeling assumptions.

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: The Board of Trustees of the Leland Stanford Junior University

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

RESOLVED, that the CEC approves Agreement 800-22-001 with the Board of Trustees of the Leland Stanford Junior University for a \$25,000 one-year contract for the CEC to be a member of the Energy Modeling Forum (EMF) Affiliates Program. The purpose of the membership is to participate in an energy-environmental network of experts and modelers working on the EMF 37 High Electricity Futures study which seeks to explore the opportunities, limitations, trade-offs, and robustness of results associated with high electrification in North America; and

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

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 adopted at a meeting of the CEC held on August 10, 2022.

AYE:

NAY:

ABSENT:

ABSTAIN:

Liza Lopez

Secretariat