



Technical Support to SB100 Modeling

**California Energy Commission
Request for Proposals- RFP 21-801
Pre-Bid Conference**

Date: March 16, 2022



Agenda

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



Purpose of RFP

- Provide technical support to the Energy Assessments Division
 - The purpose of this Request for Proposals is to select a contractor team with experience and expertise in market research and analytic methods that can provide technical assistance to the Energy Assessment Division
 - SB100 Modeling support.
 - <https://www.energy.ca.gov/programs-and-topics/topics/energy-assessment>



Scope of Work

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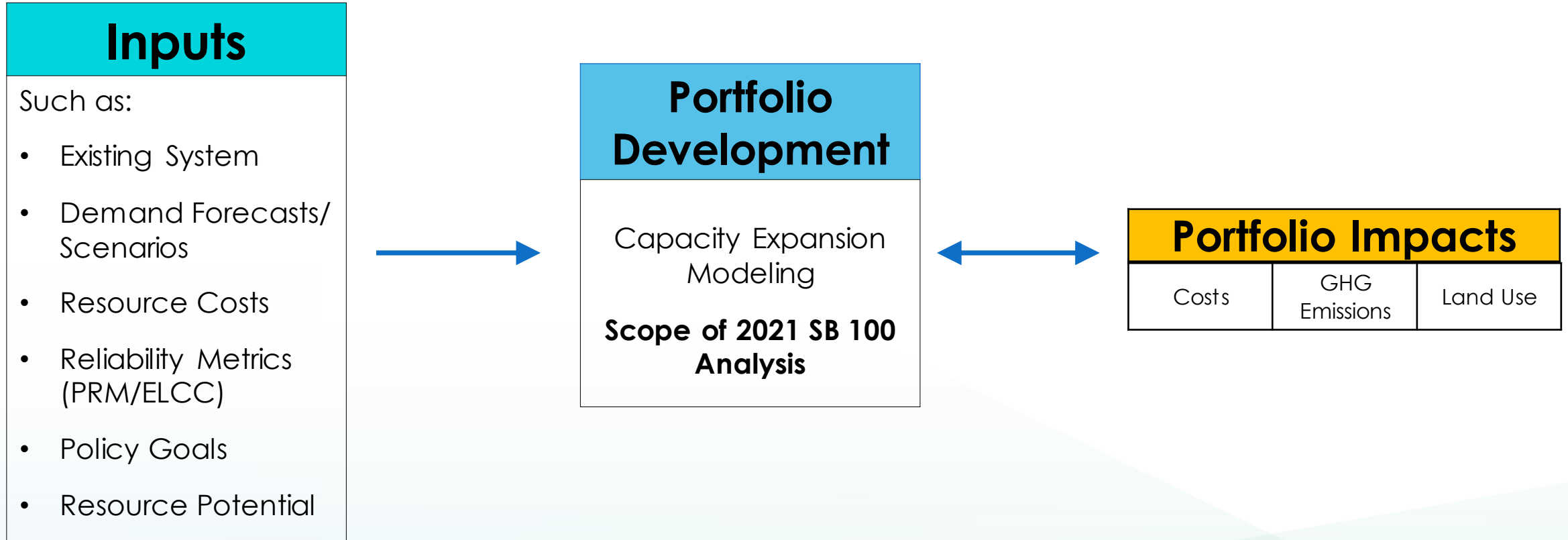


Task 1: Agreement Management

- Kick-off Meeting
- Prepare and Submit Invoices Monthly
 - Shall comply with the Exhibit B of the Terms and Conditions
- Manage Subcontractors.
- Prepare and Submit Progress Reports Monthly



2021 SB 100 Report Modeling





SB 100 Modeling Improvements

Inputs

Such as:

- Existing System
- Demand Forecasts/ Scenarios and **Weather Distributions**
- **Weather Dependent Energy Production**
- Resource Costs
- Reliability Metrics (PRM/ELCC and **LOLE**)
- Policy Goals
- **Policy Scenarios Screens (Retirements, DER, Load Flexibility, Equity, Social Costs)**
- Resource Potential
- **Land Use Screens**
- **West Wide Policies and Plans**

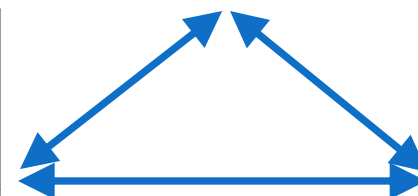


Portfolio Development

Capacity Expansion Modeling

System Dispatch

Deterministic Production Cost Modeling



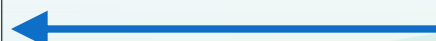
Resource Adequacy

Probabilistic Production Cost Modeling



Portfolio Impacts

Costs	GHG Emissions	Land Use
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Expertise on Models (Task 2)

- Models and analysis of interest:
 - Capacity expansion model.
 - Reliability and resource adequacy analysis.
- Key needs:
 - Identifying the right tools.
 - Buildout of the models consistent with a larger mode environment.
 - Validation of the models independently, and within the larger environment.
 - Providing information necessary to continue the use of the models



Input Expertise (Task 2)

- Better west-wide representation:
 - Improve representation of of long-term electricity needs and plans outside of California in the models.
 - Balance robust model representations with computation needs in various models.
- DER Scenarios
 - Analytical approaches to DER representation in bulk system models.
 - Support development of DER scenarios for all models.



Input Expertise (Task 2) *Continued*

- General model inputs:
 - Topics:
 - Renewable energy profiles
 - Hydroelectric characteristics
 - Load shapes not provided by the California Energy Demand for analyses.
 - Needs are for deterministic and probabilistic modeling.
 - Support with developing tools for analyzing multi-day sustained low renewable energy production events.



Eligible Bidders

- Bidders must meet all solicitation requirements.
- Private entities 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, California State University or U.S. Department of Energy 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, limited liability companies (LLCs), limited partnerships (LPs) and limited liability partnerships (LLPs) that conduct intrastate business in California are required to be registered and in good standing with the California Secretary of State prior to its project being recommended for approval at an Energy Commission Business Meeting.



Proposal Requirements

- Prime contractor will be responsible for submitting the proposal.
- Consists of Two Sections
 - Section 1 – Administrative Response
 - Section 2 – Technical and Cost Evaluation of Proposal



Section 1: Administrative Response

- Cover Letter
- Table of Contents
- Contractor Status Form
- Darfur Contracting Act Form
- Disabled Veteran Business Enterprise form
- Bidder Declaration form GSPD-05-105
- Contractor Certification Clauses
- Contractor References
- CA Civil Rights Laws Certification



Section 2: Technical Proposal

- Organizational Structure
- Relevant Experience and Qualifications
- Labor Hours by Personnel and Task
- Contractor References
- Previous Work Products
- Budget Forms



Section 2: Cost Proposal

Every Proposer must complete and include the budget forms found in Attachment 7 of the solicitation.

- Category Budget
- Direct Labor
- Fringe Benefits
- Travel
- Equipment
- Materials & Miscellaneous
- Subcontracts
- Indirect Costs and Profit



Evaluation Criteria

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



Scoring

Technical	Possible Points
Bidder's Organizational Structure	5
Bidder's Administrative Capabilities	5
Bidder and Sub-Contractor Qualifications & Team Member Experience and Capabilities by Task	10
Previous Work Products	10
Client References	5
Team Qualifications: Technical Support for SB 100 Modeling	35
Total	70
Cost	Possible Points
Total Expected Labor Costs	30
Total	30



Disabled Veteran Business Enterprise (DVBE) Requirements

“No DVBE Participation Compliance Requirement: The Energy Commission has waived this RFP from DVBE participation. Bidders are not required to include DVBEs as part of the contract team. However, if Bidder does include DVBE participation in its Bid, the DVBE Incentive will be applied.”



SMALL BUSINESS / MICROBUSINESS / NON-SMALL BUSINESS

- Small Business Preference – Certified Small Businesses or microbusinesses can claim the 5% preference when submitting a proposal.
- Non-Small Business Preference – Bidder commits to small or micro business subcontractor participation of 25% of net bid price.



How To Submit The Proposals

Method of submission is the Energy Commission Grant Solicitation System, available at: <https://gss.energy.ca.gov/>

- Due to COVID-19, hard copies will not be accepted for this solicitation.
- Files must be in Microsoft Word (.doc, .docx), Microsoft Excel (.xls, .xlsx), and Adobe PDF formats.
- Attachments that require signature: check website for most up to date signature requirements <https://www.energy.ca.gov/funding-opportunities/solicitations>
- First-time users must register as a new user to access system.
- Application documents should meet formatting requirements, and page limits specified. See individual requirements for each attachment in Section III of solicitation manual
- “How to Apply” powerpoint: <https://www.energy.ca.gov/funding-opportunities/funding-resources>



Tentative Key Activities and Dates

Deadline for Written Questions:	March 16, 2022
Distribute Questions/Answers and Addenda (if any) to RFP-21-801 :	March 18, 2022
Deadline to Submit Proposals by:	<u>5:00 p.m. March 25, 2022</u>
Notice of Proposed Award:	April 8, 2022
Anticipated Commission Business Meeting	May 11, 2022
Anticipated Contract Start Date	June 2022
Anticipated Contract Termination Date	December 2023



Questions and Answers

- Please introduce yourself by stating your name and affiliation.
- Keep questions under 3 minutes to allow time for others.
- 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 March 18, 2022.
- Questions are Due by 5 p.m. Today, March 16, 2022



Whom to Contact?

Phil Dyer

Commission Agreement Officer

715 P Street, MS-18

Sacramento, California 95814

Telephone: (916) 891-8474

E-mail: phil.dyer@energy.ca.gov



Thank You!

