



SOUTHERN CALIFORNIA PUBLIC POWER AUTHORITY

Request for Information for Transmission Level Energy Storage

Issuance Date: July 15th

Response Deadline: August 29th

I. Introduction

The Southern California Public Power Authority (SCPPA), on behalf of its Member Utilities, is hereby soliciting information regarding the capabilities and qualification of individuals and firms to perform and/or provide planning, design, and deployment of energy resources, as described below in Section III.

SCPPA is interested in discovering all Respondent's capabilities related to specified Areas of Interest to make an informed decision and potentially proceed to more specific discussions or solicitations with one or more qualified Respondents to this Request for Information (RFI).

This RFI is issued with the intent to survey the industry to obtain information that provides guidance, which may be used in the preparation of an Invitation for Bid (IFB) and/or a Request for Proposal (RFP). To fully comprehend the information contained within a response to this RFI, SCPPA members may request further clarification from one or more suppliers in the form of brief verbal communication by telephone, written communication, electronic communication, or a presentation.

Responses should include ideas, information, and recommendations that could result in a clarification of the requirements, cost-saving opportunities, and the identification of potential problem areas. All responses should be concise and focused. SCPPA members will use the information generated as a result of this RFI to determine the solution to fulfill their electric needs.

Responses to this RFI are due on or before 08/29/2019 as described in Sections III and V.

II. Background

SCPPA is a joint powers authority and a public entity organized under the California Joint Exercise of Power Act found in Chapter 5 of Division 7 of Title 1 of the Government Code of the State of California, and through the SCPPA Joint Powers Agreement, for the purposes of planning, financing, developing, acquiring, constructing, operating and maintaining projects for the generation or transmission of electric energy. SCPPA also facilitates joint service contracts, at the request of its members, to aggregate like project efforts amongst its Members for the purposes of developing energy efficiency, demand response and resource procurement Programs or Projects to improve operating efficiencies and reduce costs.

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Membership of SCPPA consists of eleven cities and one irrigation district, which supply electric energy within Southern California, including the municipal utilities of the cities of Anaheim, Azusa, Banning, Burbank, Cerritos, Colton, Glendale, Los Angeles, Pasadena, Riverside, and Vernon, and the Imperial Irrigation District. The management of SCPPA is under the direction of an Executive Director who is appointed by the Board.

III. Areas of Interest

SCPPA members have expressed interest in parties qualified and experienced in the development, operation, and delivery of energy from commercially-available energy storage technologies to provide information and feedback that will assist SCPPA members in:

- 1) Determining the level of industry interest to provide an environmentally responsible alternative to the predominantly fossil fuel-based electricity generation in the LADWP's service territory.
- 2) Obtaining scheduling and cost estimates for planning and budgetary purposes.
- 3) Providing industry the opportunity to partner on developing reliable clean energy resources, technologies and potential business models.
- 4) Obtaining information on potential new technologies or approaches to maintain resource adequacy and supply reliable electricity to the City of Los Angeles bulk electric power system at a competitive rate.

Timeline / Schedule*

SCPPA RFI for Transmission Level Energy Storage Selection Process	
Schedule of Requirements	Target Date(s)
Issue RFI	07/15/2019
Question and Answers Cutoff	08/05/2019
Responses Due	08/29/2019
Review of Responses	09/03/2019-09/30/2019

*Timeline/Schedule is subject to change.

IV. Information Submission Required Elements

1. Transmittal Letter Content:

- a) A brief statement of the Respondent's understanding of the services and products being requested and considered, as well as any physical or legal limitations or constraints that may exist in allowing the Respondent to provide such service and/or products.
- b) Legal name of Individual or Firm (Respondent) with physical street address, telephone and FAX numbers with the name(s), respective position(s)/title(s) and e-mail address(es) of all individuals authorized to represent the Respondent.

2. Information Statement to describe your firm's:

- a) experience in performing or providing the services and products within Areas of Interest as referenced above and as may be applicable to this RFI;

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- b) organizational structure, management Information, and other service or product related Information, including number of years firm or individual has been in the related business;
- c) list or table of key employees including a description of their Information, experience and duties related to the services and/or products referenced within this RFI;
- d) a list of office locations where work will be performed, if different than the physical address referenced above;
- e) reliance on or use of subcontractors to perform services referenced within this RFI; and
- f) describe whether the Respondent has, within the last five years, rendered any service to SCPPA or to any of SCPPA's Members, either as a contractor or subcontractor, either under the name presented in the Transmittal letter or any other name or organization. If so, please provide details (status as prime or subcontractor, brief description of the contract, contract start and end dates, the contract administrator name, and total actual contract expenditures).
- g) If the Respondent has not rendered any service within the last five years to SCPPA or to any of SCPPA's Members, then please provide as many as five (5) references of similar or related work performed within the past 3 years with the requested details described above including the counterparty for which services were provided.
- h) Respondent shall indicate any and all pending litigation that could affect the viability of Respondent's submittal, continuance of existing contracts, operation or financial stability.

3. Information required to describe your technology:

- a) Describe the type and technology of the proposed Energy Storage System (ESS). The ESS may include battery, compressed air energy storage (CAES), large pump hydro, or other technologies that are commercially available.
- b) Describe the characteristics of the ESS in terms of
 - rated power and energy capacity
 - full charge and discharge duration – minimum discharge time shall be 4 hours,
 - total response time,
 - operating temperature,
 - round trip efficiency,
 - equipment dimensions and weight,
 - and etc.
- c) Describe the maturity of the proposed technology. Briefly describe projects that utilize your proposed technology, including references if applicable. Provide performance data based on previous projects.
- d) Describe the ESS useful life, degradation, maintenance plans, and end of life recycling program.
- e) Describe the ESS operation characteristics to meet peaker unit operational functionalities.
 - Provide operating limits of the technology (i.e. state of charge limitations)
 - Provide technology's capability in autonomous functions that are simultaneously active and can be prioritized in case of conflict. At a minimum:
 - a. Frequency Response (Real Power)
 - b. Fault Response (Reactive Power)
 - c. Voltage Control (Reactive Power)
 - d. State of Charge Management
 - Provide stacked benefit graph of ESS applications.
- f) Describe the ESS physical sizing flexibility to fit in the following area. (Refer to Attachment A for locations' layout).
 - Available LADWP Facilities and required minimum MWh including degradation:
 - a. Scattergood Generating Station – 1,761 MWh

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- b. Harbor Annex – 508 MWh
- c. Haynes Generating Station – 4,669 MWh
- d. Valley Generating Station – 2,087 MWh
- Provide maximum MWh that can be fitted in these areas.
- Allocate space for interconnection equipment in layouts proposed in Attachment A. Possible interconnection voltage to be 138KV at Scattergood and Harbor and 230KV at Haynes and Valley Generating Station.
- Describe ESS project high level costs.
- Provide proposed ESS earliest commercial operation for each project.
- g) List local, state, and federal building and fire codes and permits required for each project.
- h) Describe any environmental impact of the ESS and any required environmental compliance (CEQA, etc).
- i) Provide general warranty information for the useful life of the ESS.

V. Information Submission Delivery Requirements

One (1) electronic copy of your submittal should be delivered no later than 4:00 pm PST on 08/29/2019 to: e-mailed to TransmissionEnergyStorageRFI@scppa.org

One (1) hard copy of your submittal can or may also be delivered to the address below no later than the time and date referenced above, but hard-copy submittal is not required.

Southern California Public Power Authority
Attention: Transmission Level Energy Storage RFI
1160 Nicole Court
Glendora, California 91740

No contact should be made with the Board of Directors, any committee or working group representatives, or SCPPA Participating Members concerning this RFI.

All information received by SCPPA in response to this RFI is subject to the California Public Records Act and may be subject to the California Brown Act and all submissions may be subject to review in the event of an audit.

VI. Submittal Terms and Conditions

1. SCPPA reserves the right to cancel this RFI at any time, reject any and all submittals and to waive irregularities.
2. SCPPA shall determine at its sole discretion the value of any and/or all submittals.
3. Submittals may be sub-divided or combined with other submittals, at SCPPA's sole discretion.
4. SCPPA shall perform an initial screening and evaluation to identify and eliminate any submittals that are not responsive to the request for Information, do not meet the minimum requirements set forth in the request for Information or are otherwise deemed, at SCPPA's sole discretion, unable to provide dependable and reliable services.
5. SCPPA reserves the right to submit supplementary follow-up questions or inquiries to request clarification of information submitted and to request additional information from any one or more of the Respondents.

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6. SCPPA reserves the right, without qualification and in its sole discretion, to accept or reject any or all submittals for any reason without explanation to the Respondent, or to subsequently make an award to one or more Respondent(s), who, in the opinion of SCPPA, will provide valued service and/or products to SCPPA and its Members.
7. SCPPA may decline to enter into any potential engagement agreement or contract with any Respondent, terminate negotiations with any Respondent, or to abandon the RFI process in its entirety.
8. Those Respondents who provide Qualification submittals agree to do so without legal recourse against SCPPA, its Members, their directors, officers, employees and agents for rejection of their submittal(s) or for failure to execute or act on their submittal for any reason.
9. SCPPA shall not be liable to any Respondent or party in law or equity for any reason whatsoever for any acts or omissions arising out of or in connection with this request for submittals.
10. SCPPA shall not be liable for any costs incurred by any Respondents in preparing any information for submission in connection with this RFI process or any and all costs resulting from responding to this RFI. Any and all such costs whatsoever shall remain the sole responsibility of the Respondent.
11. SCPPA may require certain performance assurances from Respondents prior to entering into negotiations for a proposed project. Such assurances may potentially include a requirement that Respondents provide some form of performance security.
12. Either SCPPA collectively or Members individually may respond to or enter into negotiations for services related to a submittal. SCPPA is not responsible or liable for individual Members interactions with the Respondent which are not entirely conducted through SCPPA or at SCPPA's option or election to engage the Respondent as defined within the Terms and Conditions herein.
13. Submission of a submittal constitutes acknowledgement that the Respondent has read and agrees to be bound by the terms and specifications of this RFI and any addenda subsequently issued prior to the due date for a submittal.
14. Information in this RFI is accurate to the best of SCPPA's knowledge but is not guaranteed to be correct. Respondents are expected to complete all of their due diligence activities prior to entering into any final contract negotiations with SCPPA.
15. SCPPA reserves the right to reject any submittal for any reason without cause. SCPPA reserves the right to enter into relationships with more than one Respondent, can choose not to proceed with any Respondent with respect to one or more categories of services, and can choose to suspend this RFI or to issue a new RFI that would supersede and replace this RFI.

Additional Considerations for Submittal

1. **Response Preparations:** Submittals should be prepared simply and economically, without the inclusion of unnecessary promotional materials. Information should be submitted on recycled paper that has a minimum of thirty percent (30%) post-consumer recycled content and duplex copied (double-sided pages) where possible and applicable.
2. **Insurance, Licensing, or other Certification:** If selected subsequently to provide service(s) and/or product(s) related to the Areas of Interest in this RFI, the Respondent and each of its known subcontractors will be required to maintain sufficient insurance, licenses, or other required certifications for the type of work being performed. SCPPA or its Members may require specific insurance coverage to be established and maintained during the course of work and as a condition of award or continuation of contract.
3. **Non-Discrimination/Equal Employment Practices/Affirmative Action Plan:** If selected subsequently to provide service(s) and/or product(s) related to the Areas of Interest in this RFI, the Respondent and

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each of its known subcontractors may be required to complete and file an acceptable Affirmative Action Plan. The Affirmative Action Plan may be set forth in the form required as a business practice by the Department of Water and Power of the City of Los Angeles, SCPPA's largest Member.

4. **Living Wage Ordinance:** If selected subsequently to provide service(s) and/or product(s) related to the Areas of Interest in this RFI, the Respondent may be required to comply with the applicable provisions of the City of Los Angeles Living Wage Ordinance and the City of Los Angeles Service Contract Workers Retention Ordinance. The Living Wage Ordinance provisions are found in Section 10.36 of the Los Angeles City Administrative Code; and the Service Contract Workers Retention Ordinance are found in Section 10.37 of the Los Angeles Administrative Code.
5. **Prevailing Wage Rates:** If selected, the Respondent will be required to conform to prevailing wage rates applicable to the location(s) where any work is being performed. Workers shall be paid not less than prevailing wages pursuant to determinations of the Director of Industrial Relations as applicable in accordance with the California Labor Code. To access the most current information on effective determination rates, Respondent shall contact:

Department of Industrial Relations
Division of Labor Statistics and Research
PO Box 420603, San Francisco, CA 94142-0603
Division Office Telephone: (415) 703-4780
Prevailing Wage Unit Telephone: (415) 703-4774
Web: <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>

6. **Child Support Policy:** If selected subsequently to provide service(s) and/or product(s) related to the Areas of Interest in this RFI, the Respondent may be required to comply with the City of Los Angeles Ordinance No. 172401, which requires all contractors and subcontractors performing work to comply with all reporting requirements and wage earning assignments and wage earning assignments relative to court ordered child support.
7. **Supplier Diversity:** Respondents shall take reasonable steps to ensure that all available business enterprises, including Small Business Enterprises (SBEs), Disadvantaged Business Enterprises (DBEs), Women-Owned Business Enterprises (WBEs), Minority-Owned Business Enterprises (MBEs), Disabled Veteran Business Enterprises (DVBES), and other Business Enterprises (OBEs), have an equal opportunity to compete for and participate in the work being requested by this RFP. Efforts to obtain participation of these business enterprises may reasonably be expected to produce a twenty-five percent (25%) participation goal for SBEs. For the purpose of this RFP, SCPPA's Supplier Diversity program is modeled after that of the Los Angeles Department of Water and Power. Further information concerning the Supplier Diversity Program may be obtained from the Supply Chain Services Division of the Los Angeles Department of Water and Power.

ATTACHMENT A- Aerial Map

The following maps depict the potential areas for Energy Storage System Projects within various LADWP's Generating Stations. The proposed ESS shall fit in the designated areas shown in this attachment. All given dimensions are approximate, and availability of these designated areas are subject to change. Please recommend a layout of the ESS along with means of interconnecting and clearly label all major equipment and provide dimensions.



Scattergood Generating Station: Proposed locations and approximate dimensions

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Harbor Annex: Proposed locations and approximate dimensions



Haynes Generating Station: Proposed locations and approximate dimensions



Valley Generating Station: Proposed locations and approximate dimensions