This page may be used to draft the required content, paste documents authored by others, or be replaced with existing documents as needed.

Please refer to the *Attachment 00 – Solicitation Manual* for detailed information and instructions, including but not limited to the following sections:

III. Application Format, Required Documents and Delivery

1. REQUIRED FORMAT FOR AN APPLICATION
2. METHOD FOR DELIVERY
3. PAGE LIMITATIONS
4. APPLICATION CONTENT
5. Project Narrative
6. Scope of Work

Provide a detailed description of the technical aspects of the proposed project, covering:

1. **Physical Space**

Applications will be evaluated on the degree to which the project site proposal:

* Will be located in California.
* Is sized to accommodate testing for at minimum twelve large EVSE and four vehicles.
* Will include spaces for multi-party testing and indoor meetings.
* Is capable of fully powering and testing a 150 kW charger, at minimum, with higher scores for facilities with higher power capacity.
* Includes plans for interconnecting the bidirectional charging infrastructure to the grid.
* (Optional) Describes plans to accommodate medium- and heavy-duty vehicles, with bonus points awarded for projects with this accommodation.

1. **Interoperability Testing**

Applications will be evaluated on the degree to which the applicant:

* Procures 12 or more “resident” EVSEs to support charge-vehicle testing, of which:
  + At least 5 are AC EVSE.
  + At least 6 are DC EVSE.
  + At least 7 different manufacturers are represented.
  + Across all EVSE, at least 2 V2G Root Certificate Authorities (Public Key Infrastructures) used to enable Plug and Charge are represented.
* Across all resident EVSE:
  + Certifies all EVSE for OCPP 2.0.1 or later before being made available for testing at Charge Yard.
  + Demonstrates CharIN CCS Extended or ISO 15118 conformance through a comparable test program before being made available for testing at Charge yard.
* Procures and commissions on-site test tools, including but not limited to charger/vehicle emulators and grid emulators.
  + Charge Yard must include test tools that, at minimum, support ISO 15118 testing for products using the J1772/CCS or J3400/NACS connector.
  + Test tools must be capable of simultaneously testing multiple ports for multi-port EVSE.
  + The facility may optionally offer ISO 15118 conformance and certification services using these tools.

1. **Operations & Governance**

Applications will be evaluated on the degree to which the applicant:

* Provides on-site technical support (for example, test technicians and test engineers).
* Supports semi-public and private testing, including confidentiality and security processes.
* Supports testing between visiting vehicles and resident EVSE.
* Describes plans to ensure cost recovery and financial sustainability, including any fees for use, subscription fees, testing event fees, testing and certification services, and so on. Applicants must commit to 5 years of operation and provide detailed plans of how to reach 10 years of operation.
* Describes plans to assemble an advisory committee consisting of at least two of each of the following entity types unless otherwise noted:
  + EV manufacturers
  + Charge station operators or charging network providers
  + Public key infrastructure providers
  + Utilities (only 1 entity required)
* Describes plans to implement:
  + A standard set of test cases for ISO 15118-2 that validate a product’s ISO 15118-2 implementation.
  + A standard set of test cases for ISO 15118-20 that validate a product’s ISO 15118-20 implementation.
    - The above test cases shall include those validating Plug and Charge, scheduled charging, and bidirectional charging.
  + A standardized method, tool, certification, and/or program with which to run the above test cases.
* During the project term, describes plans to:
  + Host at least 3 on-site interoperability testing events per year.
  + Host at least 2 on-site events per year that do not include testing.

1. **Standardized Testing Protocols**

Applications will be evaluated on the degree to which the applicant demonstrates detailed plans for:

* Achieving the availability of a standard set of test cases for ISO 15118-2.
* Achieving the availability of a standard set of test cases for ISO 15118-20.
* Achieving the availability of a standard set of test cases for OCPI 2.2.1 or subsequent versions.
* Achieving a standardized method, tool, certification, and/or program for running the aforementioned test cases.

Each of the above plans should:

* Specify collaboration with relevant industry bodies and entities.
* Outline how the applicant will contribute to and leverage existing industry efforts.
* Detail the scope and coverage of the intended test cases, including Plug and Charge and scheduled charging.

1. **Bidirectional Charging**

Applications will be evaluated on the degree to which the applicant:

* Provides the capability for automakers and charging providers to test end-to-end bidirectional charging. This must include the ability to install and test a complete bidirectional charging setup for both grid interactive and islanded operation.
* Support testing with other distributed energy resources, energy management systems, or similar complementary technologies.
* Describes how Charge Yard bidirectional charging programming will convene industry, mature the development of bidirectional standards, and support utility buy-in.

1. **Data Collection, Reporting, Dashboard**

Applications will be evaluated on the degree to which the applicant submits detailed plans to:

* Collect comprehensive data on all testing with on-site test tools and resident EVSE.
* Identify and track common implementation errors, misunderstandings, and other non-conformities.
* Identify and track common implementation errors, misunderstandings, and other non-conformities from industry collaboration events.
* Collect data during industry collaboration events (including all on-site interoperability testing events and V2X testing events).

1. **Industry Collaboration Events**

Applications will be evaluated on the degree to which the applicant submits detailed plans to:

* Host at least three on-site interoperability testing events per year. The annual V2X testing event counts towards the required number of testing events.
* Host or co-host at least two on-site events per year that do not include testing.

1. **Project Budget**

Applications will be evaluated on the degree to which:

* The proposed project budget is justifiable and reasonable relative to the project goals, objectives, and tasks defined in the scope of work.
* The proposed project minimizes administrative and overhead costs for reimbursement.
* The proposed match funding commitments are documented, verifiable, and necessary to support the successful completion of the project.

1. **Overall Cost Effectiveness**

Applications will be evaluated on the overall cost effectiveness of the project using the below formula, where Score % is the percentage score for this criterion and TC is the total project cost (sum of match and CEC shares).

Score % = -100 / (1 + exp(-.000001\*(TC-5000000))) + 100

1. **Financial Sustainability**

Applications will be evaluated on the proposed business model and ability to sustain operations beyond the 5-year performance period without additional funding from the CEC.

1. **Match Share**

Applications will be evaluated on the degree to which:

* The proposed project budget includes at least 35 percent total match share.

1. **Team Experience & Qualifications**

Applications will be evaluated on the degree to which:

* The qualifications, experience, and capabilities of the project team provide confidence in the team’s ability to successfully meet all Charge Yard project requirements (see Section B).
* The qualifications, experience, and capabilities of the project team provide confidence in the team’s ability to successfully launch and operate Charge Yard, including past the project term.
* The applicant has a demonstrated history of successfully completing infrastructure projects including the ability to establish site control, obtain equipment and materials, and deploy resources to expedite project completion.
* The applicant demonstrates that it has the confidence of the electric vehicle and charging industries, and a history of successfully convening these industries.
* If applicable, the applicant describes past performance on prior CEC awards, including timeliness, project execution, communication, and project success.

Notes: *Ensure the proposed project and components meet the requirements listed in Section II.B Project Requirements of the Solicitation Manual.*