California Energy Commission
November 18, 2026 Business Meeting
Backup Materials for Imperial Irrigation District

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

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

CALIFORNIA ENERGY COMMISSION

PROPOSED RESOLUTION: Imperial Irrigation District

RESOLUTION NO: 26-1118-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 CER-26-004 with Imperial Irrigation District for a $7,111,984 grant. This project will enhance the energy reliability and resilience of the communities in the Winterhaven area by deploying a long duration energy storage system at the district's hydroelectric facility located on the Quechan Tribe of the Fort Yuma Indian Reservation; 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 18 day of November 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 November 18, 2026.

Kim Todd
Secretariat

STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION

CEC-270 (Revised 01/2026)

GRANT REQUEST FORM (GRF)

A. New Agreement Number

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

New Agreement Number: CER-26-004

B. Division Information

1. Division Name: ERDD
2. Agreement Manager: Tanner Kural
3. MS-:None
4. Phone Number: 916-776-0783

C. Recipient's Information

1. Recipient's Legal Name: Imperial Irrigation District

D. Title of Project

Title of project: Longer Duration Energy Storage for Community Energy Reliability and Resilience (LDES for CERR)

E. Term and Amount

1. Start Date: 1/4/2027
2. End Date: 4/30/2032
3. Amount: $7,111,984.00

F. Business Meeting Information

1. Are the ARFVTP agreements $75K and under delegated to Executive Director? No
2. The Proposed Business Meeting Date: October 19, 2026
3. Consent or Discussion? Consent
4. Business Meeting Presenter Name: Tanner Kural
5. Time Needed for Business Meeting: N/A
6. The email subscription topic is: Community Energy Reliability and Resilience Investment (CERRI) Program.

Project Description:

Imperial Irrigation District. Proposed resolution approving agreement CER-26-004 with Imperial Irrigation District for a $7,111,984 grant and adopting staff's recommendation that this action is exempt from CEQA. This project will enhance the energy reliability and resilience of the communities in the Winterhaven area by deploying a long duration energy storage system at the district's hydroelectric facility located on the Quechan Tribe of the Fort Yuma Indian Reservation. (CERRI funding) Contact: Tanner Kural

G. California Environmental Quality Act (CEQA) Compliance

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

   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:

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

a) Agreement **IS** exempt?

Yes

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:

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

Yes

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

The proposed project will consist of the construction of a 1MW/10hours continuous discharge long duration energy storage (LDES) system (91 ft x 44 ft x 18 ft) at the district's hydroelectric facility located on the Quechan Tribe of the Fort Yuma Indian Reservation. The LDES technology utilizes carbon-based active species in an innovative architecture with the material property advantages of both solid electrode batteries and liquid flow batteries. The non-lithium-ion, organic battery chemistry is thermally stable, nonflammable, and emits no toxic emissions. The system will consist of 100 to 200 battery modules arranged on racks within a powerhouse building.

The LDES system will be installed in a 7,000 sq. ft. powerhouse building along with accessory structures, including a 1,800 sq. ft. customer distribution substation and a 0.25 mile distribution line that connects the LDES system to an existing 13.8-kV bus at the adjacent Pilot Knob Hydroelectric Power Plant Facility substation. The Pilot Knob Hydroelectric Facility that will serve as the project site is on lands held in trust for the Quechan Tribe of Indians as part of the Fort Yuma Indian Reservation. The tribe has approved the proposed project in a Letter of Commitment dated August 5, 2025.

Vehicle trips associated with the construction of the project will be temporary and the operation of the LDES system will result in a negligible number of regular operational trips for maintenance. Best Management Practices will be followed during installation and operation of the LDES system. Therefore, no adverse effects to offsite air or water quality will occur as a result of the project. The installation and operation of the LDES system would not substantially degrade the

existing visual character or quality of off-reservation visual resources, as the structures will be 3,600 ft away from off-reservation land and will not be visually obtrusive.

This project is covered by the Common Sense Exemption under 14 CCR 15061 (b) (3) that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA. This project will take place on tribal land, but off-reservation impacts must still be evaluated under Government Code section 12012.101(b)(2), but this project is exempt under the "common sense" CEQA exemption because the proposed project will not:

- construct on or alter any off-reservation land;
- impact local air quality;
- use groundwater resources or otherwise impact any off-reservation water resources;
- build additional transportation infrastructure;
- generate additional traffic volumes from commercial activities of the Casino;
- increase, once the project is complete, ambient noise beyond the existing commercial activities; or
- degrade the visual character or quality of off-reservation views, including those of scenic resources or objects of aesthetic significance.

Compared with the current supply of energy, the proposed project will improve energy resiliency for Tribal facilities and the local electric grid, as well as reduce overall energy demand on the local energy provider and lower fossil fuel usage and greenhouse gas (GHG) emissions. Because the proposed project will improve air quality and reduce GHG emissions, and does not provide for any physical changes outside of the Indian reservation, it can be seen with certainty that there is no possibility that the proposed project may have a significant effect on the off-reservation environment. Based on all these factors, the proposed project meets the CEQA "common sense" exemption.

The project does not involve impacts on any particularly sensitive environment; will not impact an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies; does not involve any cumulative impacts of successive projects of the same type in the same place that might be considered significant; does not involve unusual circumstances that might have a significant effect on the environment; will not result in damage to scenic resources within a highway officially designated as a state scenic highway; the project site is not included on any list compiled pursuant to Government Code section 65962.5; and the project will not cause a substantial adverse change in the significance of a historical resource. Therefore, none of the exceptions to categorical exemptions listed in CEQA Guidelines section 15300.2 apply to this project and this project will not have a significant effect on the environment.

b) Agreement **IS NOT** exempt.
IMPORTANT: consult with the legal office to determine next steps.

No

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”?

Yes

I. Subcontractors

List all Subcontractors listed in the Budget (s) (major and minor). 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	CEC Funds	Match Funds
Subrecipients of the Recipient		
CMBlu Energy Inc.	$ 4,123,652	**$**5,819,898
Electric Power Research Institute, Inc.	$ 89,450	**$**110,550
Pacific Northwest National Laboratory	$ 89,450	**$**110,550
Subrecipients of CMBlu Energy Inc.		
Rubicon Professional Services, LLC	$2,229,774	$2,755,746

J. Vendors and Sellers for Equipment and Materials/Miscellaneous

List all Vendors and Sellers listed in Budget(s) for Equipment and Materials/Miscellaneous. Insert additional rows if needed. If no vendors or sellers to report, enter “No vendors or sellers to report” and “0” to funds. **Delete** any unused rows from the table.

Vendor/Seller Legal Company Name	CEC Funds	Match Funds
Vendors of the Recipient		
TBD - Testing and Certification	**$**0	**$**225,000
Open Systems International, Inc.	**$**7,156	**$**8,844
TBD- Contractor	**$**67,087	**$**82,913

TBD - General Contractor # 2	**$**89,450	**$**110,550
TBD - General Contractor # 3	**$**89,450	**$**110,550
Vendors of CMBlu Energy Inc.		
CleanTech Strategies	$178,900	$221,100
Premier Global Logistics, LLC	$78,269	$96,731
Vendors of Rubicon Professional Services, LLC		
Plump Engineering, Inc.	$179,193	$220,227
TBD – Land Surveyor	$32,962	$40,738
TBD – Site Civil Construction Vendor	$453,064	$559,936
TBD – Site Electrical Vendor	$614,969	$760,031
TBD – Steel and Polyfilm Moisture Barrier Vendor	$624,361	$771,639
TBD – Site Thermal Management Vendor	$134,175	$165,825
TBD – General Liability Insurance for Design Phase	$11,181	$13,819
TBD – General Liability Insurance for Construction Phase	$33,544	$41,456

K. 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
Quechan Tribe of the Fort Yuma Indian Reservation, California

L. 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
FED	24-25	303.890	$ 7,111,984

TOTAL Amount: $ 7,111,984

R&D Program Area: N/A

Explanation for "Other" selection Not applicable

Reimbursement Contract #: Not applicable

Federal Agreement #: Not applicable

M. Recipient's Contact Information

1. Recipient's Administrator/Officer

Name: Sabrina Barber

Address: 333 E Barioni Blvd

City, State, Zip: Imperial, CA 92251-1773

Phone: 760-482-3686

E-Mail: scbarber@IID.com

2. Recipient's Project Manager

Name: Eduardo Diaz

Address: 333 E Barioni Blvd

City, State, Zip: Imperial, CA 92251-1773

Phone: 760-482-3357

E-Mail: ediaz@IID.com

N. Selection Process Used

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

Selection Process	Additional Information
Competitive Solicitation #	GFO-23-312r2
First Come First Served Solicitation #	Not applicable
Other	Not applicable

O. Attached Items

1. List all items that should be attached to this GRF 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	CEC 105, Questionnaire for Identifying Conflicts	Yes
4	Recipient Resolution	No
5	Awardee CEQA Documentation	No

Approved By

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

Agreement Manager: Tanner Kural

Approval Date: 8/25/2026

Office Manager: Alex Horangic

Approval Date: 8/28/2026

Deputy Director: Alex Horangic for Jonah Steinbuck

Approval Date: 08/28/2026

Exhibit A
Scope of Work
Imperial Irrigation District (IID)

I. TASK ACRONYM/TERM LISTS

A. Task List

Task #	CPR[1]	Task Name
1		General Project Tasks
2		Detailed Planning
3	X	Design and Digital Configuration
4	X	Construction and Commissioning
5	X	Testing, Validation, and Operational Performance
6		Engagement
7		Workforce Development

B. Acronym/Term List

Acronym/Term	Meaning
ADMS	Advanced Distribution Management System
CAM	Commission Agreement Manager
CAO	Commission Agreement Officer
CBA	Collective Bargaining Agreement: Also referred to as "bargaining agreement" and sometimes known as a "labor-management agreement" or "union contract." These terms refer to an agreement between an employer and a union establishing wages, hours, and other terms and conditions of employment for employees in the bargaining unit represented by the union.
CBO	Community Based Organization
CEC	California Energy Commission
CERRI	Community Energy Reliability and Resilience Investment
Contractor	A legal entity contracted by the prime or Subrecipient to provide goods and/or services within normal business operations, provides similar goods or services to many different purchasers, operates in a competitive environment, provides goods or services that are ancillary to the operation of the CERRI Program.
CPR	Critical Project Review
DBA	Davis-Bacon Act
DOE	U.S. Department of Energy
DOL	U.S. Department of Labor
LCPTracker	Third-party electronic payroll compliance software application for the Davis-Bacon Act.
LDES	Long Duration Energy Storage
MW	Megawatt
MWh	Megawatt-hour
OPA	Operational Performance Assessment
OSHA	Occupational Safety and Health Administration: A federal organization under DOL to ensure safe and healthful working conditions free from unlawful retaliation.

[1] Please see subtask 1.3 in Part III of the Scope of Work (General Project Tasks) for a description of Critical Project Review (CPR) Meetings.

Acronym/Term	Meaning
PK Hydro	Pilot Knob Power Plant hydroelectric facility
Recipient	Imperial Irrigation District
ROVI	Rapid Operational Validation Initiative by U.S. Department of Energy, used to support test data collection for rapid validation of emerging energy storage technologies.
SCADA	Supervisory Control and Data Acquisition control system architecture
SOH	State of Health
WD	Wage Determination: A WD is the list of basic hourly wage rates and fringe benefit rates for each classification of laborers and mechanics ("labor classification") in a predetermined geographic area for a particular type of construction, as established by the DOL Wage and Hour Division. The WD identifies the specific information to be loaded into LCPtracker for a particular project. In some cases, the WD is known at award and in others at a later time. In cases where there is a CBA or a WD is not available in SAM.gov, a separate process exists via Office of General Counsel (OGC)/DOL for conformance/conversion to a specific WD for the project/prime recipient (DOE BIL DBA guidance on conformance is forthcoming). Note that this process can take up to 60 days.
QPR	Quarterly Progress Report

II. PURPOSE OF AGREEMENT, PROBLEM/SOLUTION STATEMENT, AND GOALS AND OBJECTIVES

A. Purpose of Agreement

The purpose of this Agreement is to fund the design, installation, commissioning, and operation of a battery energy storage system at Imperial Irrigation District (Recipient)'s Pilot Knob Power Plant hydroelectric facility (PK Hydro) intended to enhance reliability and resilience and associated grid obligations of the Recipient and the communities of the Winterhaven area, including the Fort Yuma Quechan Indian Tribe.

B. Problem/ Solution Statement

Problem

The Recipient is a public power and water utility serving 163,000 customers in Southern California presently with 1,125 megawatts (MW) of generating capacity and 2,500MW by 2035, and is modernizing its grid amidst increased demand for and supply of electricity, complex state requirements, regional transmission, and economic and policy requirements. This drives a strong need for reliable, dispatchable power generated from a range of resources, some variable, creating a strong need for grid-scale energy storage.

The Recipient, as an operating utility, must meet certain grid obligations with supplied grid services such as frequency regulation, energy shifting, and load shedding. This project supports each of these and creates an extensible foundation for rapid expansion of the resource capacity. Additionally, extreme heat scenarios are quite common and increasing in frequency and duration. Load factor for the Recipient is near 40% so extreme heat and loading requires overbuild of resources or storage of energy for future use.

Solution
The Recipient will deploy a nominal 1MW/10hours continuous discharge long duration energy storage (LDES) system. The LDES technology utilizes carbon-based active species in an innovative architecture with the advantages of both solid batteries (such as lithium-ion) and liquid batteries (flow batteries).

This project is designed to advance the commercial viability of non-lithium -duration energy storage technologies by deploying an LDES to the PK Hydro. The system will provide at least ten-hour discharge to partially cover the lack of power during generation gaps, frequency response, resilient power for a Quechan Tribe community, energy storage for overgeneration during low-demand periods to strategically dispatch it during high-demand period, and variable generation smoothing.

C. Goals and Objectives of the Agreement

Agreement Goals
The goals of this Agreement are to:

- Provide safe and reliable energy to communities with high wildfire risk.
- Improve infrastructure resilience to support California's energy policies.
- Successfully demonstrate
  - Enhanced reliability:
    - Provide a 10+ hr discharge to partially cover power gaps during generation gaps.
    - Provide frequency response grid services for system reliability.
    - Smooth variable generation such as solar to improve power quality and reliability.
  - Enhanced resiliency:
    - Store overgeneration during low-demand periods for use during peak.
    - Strategically dispatch stored energy during high-demand periods.
    - Provide resilient resources for the Quechan Tribe community.

Community Benefits
This Agreement will result in the community benefits of **increased employment, lower electricity costs, decreased outage frequency, and increased access to emergency services** by implementing a comprehensive engagement strategy that ensures equitable and lasting benefits for the Quechan Tribe and surrounding communities in Winterhaven, California. By providing outage-preparedness workshops, the project will strengthen resilience for critical facilities such as health, education, and emergency response centers, reducing outage impacts and ensuring continued access to essential services.

The project will further deliver benefits through quarterly community forums and outreach events that embed tribal perspectives in project planning and provide transparent updates on progress. Educational programming at schools and community centers will increase energy literacy and raise awareness of resilience solutions, while targeted workforce outreach—including apprenticeships and internships—will expand employment pathways in the energy sector. Together, these activities not only ensure that LDES directly supports local resilience needs, but also create enduring economic, social, and energy security benefits for frontline communities.

Exhibit A
Scope of Work
Imperial Irrigation District (IID)

Workforce Development

The project will expand energy career opportunities in Imperial County by establishing inclusive, high-quality pathways into the LDES sector. Workforce development efforts will focus on members of the Quechan Tribe and local communities, ensuring equitable access to training and permanent jobs.

Goals:

- **Increase participation of tribal and local residents** in energy careers through targeted outreach and recruitment.
- **Create durable, high-quality career pathways** by combining on-the-job training with union-supported apprenticeship and pre-apprenticeship programs.
- **Support reskilling and upskilling** for veterans and transitioning workers through technical certification and safety training.
- **Retain a skilled workforce** by providing prevailing wages, benefits, and strong occupational protections, with subcontractors required to demonstrate commitments to labor standards and local hiring.
- **Strengthen regional economic resilience** by building a long-term energy talent pipeline aligned with the Recipients apprenticeship programs, union partners, and regional training providers.

This approach ensures workforce development directly supports project activities and provides lasting benefits to local communities.

These activities will build a durable regional talent pipeline for energy careers, supporting entry-level and advanced skill development for direct project activities. Career awareness events introduce youth, veterans, and tribal members to energy sector opportunities under this project. This effort will include system-specific technical certifications, Occupational Safety and Health Administration (OSHA)-compliant safety training, and renewable energy instruction. Workers under this project will receive prevailing wages, benefits, and strong occupational protections. Subcontractors will demonstrate labor standards and local hiring commitments. Prioritization of local communities will increase employment, create permanent job pathways, and strengthen regional economic resilience.

Agreement Objectives

The objectives of this Agreement are to:

- **Deploy & Commission U.S. SolidFlow™ LDES:** Install a Nominal **1MW / 10 megawatt-hour (MWh) system** at the PK Hydro site to provide 10+ hours of dispatchable energy and validate a safe, long-life, non-lithium storage technology.
- **Strengthen Reliability & Resilience:** Deliver frequency response, peak shifting, and resiliency assets for the Quechan Tribe and critical facilities, reducing outage risk during extreme heat, wildfire-related Public Safety Power Shutoff events, and hydro variability.
- **Advance State Energy Goals:** Reduce reliance on fossil peaker plants, cut ~900 metric tons of CO_2 annually, and support California Senate Bill 100 and the California Energy Commission's biennial Integrated Energy Policy Report resilience priorities while enabling greater renewable integration.

- **Produce Workforce Benefits:** Embed engagement, tribal leadership participation, and workforce development programs (apprenticeships, on-the-job training, career pathways) to ensure lasting benefits for local communities.
- **Enable Replication & Scale:** Design system to support future scale-up and replication, and generate high-quality operational and economic data for ROVI to inform potential statewide adoption.

III. TASK 1 GENERAL PROJECT TASKS

PRODUCTS

Subtask 1.1 Products

The goal of this subtask is to establish the requirements for submitting project products (e.g., reports, summaries, plans, and presentation materials). Unless otherwise specified by the Commission Agreement Manager (CAM), the Recipient must deliver products as required below by the dates listed in the **Project Schedule (Part V).** All products submitted which will be viewed by the public, must comply with the accessibility requirements of Section 508 of the federal Rehabilitation Act of 1973, as amended (29 U.S.C. Sec. 794d), and regulations implementing that act as set forth in Part 1194 of Title 36 of the Federal Code of Regulations**.** All technical tasks should include product(s). Products that require a draft version are indicated by marking **"(draft and final)"** after the product name in the "Products" section of the task/subtask. If "(draft and final)" does not appear after the product name, only a final version of the product is required. With respect to due dates within this Scope of Work, **"days"** means working days.

The Recipient shall:

For products that require a draft version, including the Final Report Outline and Final Report

- Submit all draft products to the CAM for review and comment in accordance with the Project Schedule (Part V). The CAM will provide written comments to the Recipient on the draft product within 15 days of receipt, unless otherwise specified in the task/subtask for which the product is required.
- Consider incorporating all CAM comments into the final product. If the Recipient disagrees with any comment, provide a written response explaining why the comment was not incorporated into the final product.
- Submit the revised product and responses to comments within 10 days of notice by the CAM, unless the CAM specifies a longer time period, or approves a request for additional time.

For products that require a final version only

- Submit the product to the CAM for acceptance. The CAM may request minor revisions or explanations prior to acceptance.

For all products

- Submit all data and documents required as products in accordance with the following:

Instructions for Submitting Electronic Files and Developing Software:

- **Electronic File Format**

- Submit all data and documents required as products under this Agreement in an electronic file format that is fully editable and compatible with the California Energy Commission's (CEC) software and Microsoft (MS)-operating computing platforms, or with any other format approved by the CAM. Deliver an electronic copy of the full text of any Agreement data and documents in a format specified by the CAM, such as memory stick.

The following describes the accepted formats for electronic data and documents provided to the CEC as products under this Agreement, and establishes the software versions that will be required to review and approve all software products:

- Data sets will be in MS Access or MS Excel file format (version 2007 or later), or any other format approved by the CAM.
- Text documents will be in MS Word file format, version 2007 or later.
- Project management documents will be in Microsoft Project file format, version 2007 or later or any other format approved by the CAM.

- **Software Application Development**

Use the following standard Application Architecture components in compatible versions for any software application development required by this Agreement (e.g., databases, models, modeling tools), unless the CAM approves other software applications such as open-source programs:

- Microsoft ASP.NET framework (version 3.5 and up). Recommend 4.0.
- Microsoft Internet Information Services (IIS), (version 6 and up) Recommend 7.5.
- Visual Studio.NET (version 2008 and up). Recommend 2010.
- C# Programming Language with Presentation (UI), Business Object and Data Layers.
- SQL (Structured Query Language).
- Microsoft SQL Server 2008, Stored Procedures. Recommend 2008 R2.
- Microsoft SQL Reporting Services. Recommend 2008 R2.
- XML (external interfaces).

Any exceptions to the Electronic File Format requirements above must be approved in writing by the CAM. The CAM will consult with the CEC's Information Technology Services Branch to determine whether the exceptions are allowable.

MEETINGS

Subtask 1.2 Kick-off Meeting

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

The Recipient shall:

- Attend a "Kick-off" meeting with the CAM, the Commission Agreement Officer (CAO), and any other CEC staff relevant to the Agreement. The Recipient will bring its Project Manager and any other individuals designated by the CAM to this meeting. The administrative and technical aspects of the Agreement will be discussed at the meeting. Prior to the meeting, the CAM will provide an agenda to all potential meeting participants. The meeting may take place in person or by electronic conferencing (e.g., Microsoft Teams), with approval of the CAM.

The administrative portion of the meeting will include discussion of the following:
- Terms and conditions of the Agreement;
- Invoicing and auditing procedures;
- Administrative products (subtask 1.1);
- CPR meetings (subtask 1.3);
- Match fund documentation (subtask 1.7);
- Permit documentation (subtask 1.8);
- Subcontracts (subtask 1.9); and
- Any other relevant topics.

The technical portion of the meeting will include discussion of the following:
- The CAM's expectations for accomplishing tasks described in the Scope of Work;
- An updated Project Schedule;
- Technical products (subtask 1.1);
- Progress reports (subtask 1.5);
- Monthly Call (subtask 1.5.1);
- Final Report (subtask 1.6);
- Any other relevant topics.

- Provide *Kick-off Meeting Presentation* to include but not limited to:
  - Project overview (i.e., project description, goals and objectives, technical tasks, expected benefits)
  - Project schedule that identifies milestones
  - List of potential risk factors and hurdles, and mitigation strategy

- Provide an *Updated Project Schedule, Match Funds Status Letter,* and *Permit Status Letter*, as needed to reflect any changes in the documents.

The CAM shall:
- Designate the date and location of the meeting.
- Send the Recipient a *Kick-off Meeting Agenda*.

Recipient Products:
- Kick-off Meeting Presentation
- Updated Project Schedule *(if applicable)*
- Match Funds Status Letter (subtask 1.7) *(if applicable)*
- Permit Status Letter (subtask 1.8) *(if applicable)*

CAM Product:
- Kick-off Meeting Agenda

Subtask 1.3 Critical Project Review (CPR) Meetings
The goal of this subtask is to determine if the project should continue to receive CEC funding, and if so whether any modifications must be made to the tasks, products, schedule, or budget. CPR meetings provide the opportunity for frank discussions between the CEC and the Recipient. As determined by the CAM, discussions may include project status, challenges, successes, report preparation, and progress on Engagement and Workforce Development

activities. Participants will include the CAM and the Recipient and may include the CAO and any other individuals selected by the CAM to provide support to the CEC.

CPR meetings generally take place at key, predetermined points in the Agreement, as determined by the CAM and as shown in the Task List on page 1 of this Exhibit. However, the CAM may schedule additional CPR meetings as necessary. The budget will be reallocated to cover the additional costs borne by the Recipient, but the overall Agreement amount will not increase. CPR meetings generally take place at the CEC, but they may take place at another location, or may be conducted via electronic conferencing (e.g., Microsoft Teams) as determined by the CAM.

The Recipient shall:

- Prepare and submit a *CPR Report and/or presentation* based on the CAM's determination for each CPR meeting that: (1) discusses the progress of the Agreement toward achieving its goals and objectives; and (2) includes recommendations and conclusions regarding continued work on the project.
- Attend the CPR meeting.
- Present the CPR Report or presentation and any other required information at each CPR meeting.

The CAM shall:

- Determine the location, date, and time of each CPR meeting with the Recipient's input.
- Send the Recipient a *CPR Agenda* with a list of expected CPR participants in advance of the CPR meeting. If applicable, the agenda will include a discussion of match funding and permits.
- Conduct and make a record of each CPR meeting. Provide the Recipient with a schedule for providing a Progress Determination on continuation of the project.
- Determine whether to continue the project, and if so whether modifications are needed to the tasks, schedule, products, or budget for the remainder of the Agreement. If the CAM concludes that satisfactory progress is not being made, this conclusion will be referred to the Deputy Director of the Energy Research and Development Division, and this may result in project delays, including a potential Stop Work Order, while the CEC determines whether the project should continue.
- Provide the Recipient with a *Progress Determination* on continuation of the project, in accordance with the schedule. The Progress Determination may include a requirement that the Recipient revise one or more products.

Recipient Products:

- CPR Report(s) and/or Presentation(s)

CAM Products:

- CPR Agenda(s)
- Progress Determination

Subtask 1.4 Final Meeting

The goal of this subtask is to complete the closeout of this Agreement.

The Recipient shall:

- Meet with CEC staff to present, as applicable, project outcomes, findings, conclusions, and recommendations. The final meeting must be completed during the closeout of this Agreement. This meeting will be attended by the Recipient and CAM, at a minimum. The meeting may occur in person or by electronic conferencing (e.g., Microsoft Teams), with approval of the CAM.

  The technical and administrative aspects of Agreement closeout will be discussed at the meeting, which may be divided into two separate meetings at the CAM's discretion.
  - The technical portion of the meeting will involve the presentation of project results, benefits, performance metrics, challenges experienced, and recommended next steps (if any) for the Agreement. The CAM will determine the appropriate meeting participants.
  - The administrative portion of the meeting will involve a discussion with the CAM and the CAO of the following Agreement closeout items:
    - Disposition of any procured equipment.
    - The CEC's request for specific "generated" data (not already provided in Agreement products).
    - Any "Surviving" Agreement provisions such as repayment provisions and confidential products.
    - Final invoicing and release of retention.
- Prepare a *Final Meeting Agreement Summary* that documents any agreement made between the Recipient and Commission staff during the meeting.
- Prepare a *Schedule for Completing Agreement Closeout Activities* if deemed necessary by the CAM.
- Prepare a Tangible Personal Property Report (SF-428) if deemed necessary by the CAM.
- Prepare a Tangible Personal Property Report: Final Report (SF-428-B) if deemed necessary by the CAM.
- Prepare a Tangible Personal Property Report: Disposition Request / Report (SF-428-C) if deemed necessary by the CAM.
- Provide copies of *All Final Products* on a USB memory stick, or via a secure File Transfer Protocol (FTP) site, organized by the tasks in the Agreement.

Products:
- Final Meeting Agreement Summary *(if applicable)*
- Schedule for Completing Agreement Closeout Activities *(if applicable)*
- Tangible Personal Property Report (SF-428) *(if applicable)*
- Tangible Personal Property Report: Final Report (SF-428-B) *(if applicable)*
- Tangible Personal Property Report: Disposition Request / Report (SF-428-C) *(if applicable)*
- All Final Products

MONTHLY CALL, REPORTS AND INVOICES

Subtask 1.5 Project Management Reports and Invoices

The goals of this subtask are to: (1) periodically verify that satisfactory and continued progress is made towards achieving the project objectives of this Agreement; and (2) ensure that invoices contain all required information and are submitted in the appropriate format.

Exhibit A
Scope of Work
Imperial Irrigation District (IID)

The Recipient shall:

- Submit a *Quarterly Progress Report* (QPR) to the CAM. Each progress report must:
  - Detail progress made on all Agreement activities as specified in the Scope of Work for the preceding quarter, including baseline budget and incurred cost, milestones (as defined in the Project Schedule), build metrics, and risk management activities.
  - QPRs must be submitted no later than 15 days after the end of the Federal Fiscal Quarter.
  - See the Quarterly Progress Report Format Attachment and Instructions for the required specifications:
    - Quarterly Progress Report Instructions: https://www.energy.ca.gov/media/9027
    - Quarterly Progress Report Template: https://www.energy.ca.gov/media/9028
- Submit a monthly or quarterly *Invoice* that follows the instructions in the "Payment of Funds" section of the terms and conditions, including a financial report on Match Funds and in-state expenditures.
- If necessary, submit a waiver for all project materials noncompliant with Build America, Buy America (BABA) requirements. For all BABA compliant project materials, submit a BABA certification to demonstrate proof of compliance. A BABA certification letter must show proof of BABA compliance and includes the:
  - Official Company Letterhead: Include company name and logo, contact information (address, phone number, email)
  - Project Name, Location, and Agreement Title, for easy identification of the particular project. match
  - Product Name: Provide the specific name of the piece of equipment.
  - Product Identifier: Reference the specific product ID (e.g. SKU, PSC, or NAICS code).
  - Product Description: What it is or what it does.
  - Location of Final Manufacturing Processes: City & State
  - Certification that the manufactured product(s) shipped/provided to the subject project is/are in full compliance with the Build America, Buy America Act requirement as mandated in the Infrastructure Investment and Jobs Act (IIJA) Pub. L. No. 117-58, §§ 70901-52 (and applicable federal regulations). Certification that this/these product(s) meet(s) the 55 percent component cost test, where the cost of components that are mined, produced, or manufactured in the United States is greater than 55 percent of the total cost of all components; and final manufacturing occurred in the United States.

Products:

- Quarterly Progress Reports
- Invoices
- BABA Waiver (if applicable)
- BABA Certification (if applicable)

Subtask 1.5.1 Monthly Calls

The goal of this task is to have calls at least monthly between the CAM and Recipient to verify that satisfactory and continued progress is made towards achieving the objectives of this Agreement on time and within budget.

The objectives of this task are to verbally summarize activities performed during the reporting period, to identify activities planned for the next reporting period, to identify issues that may affect performance and expenditures, to verify match funds are being proportionally spent concurrently or in advance of CEC funds or are being spent in accordance with an approved Match Funding Spending Plan, to form the basis for determining whether invoices are consistent with work performed, and to answer any other questions from the CAM. Monthly calls might not be held on those months when a quarterly progress report is submitted or the CAM determines that a monthly call is unnecessary.

The CAM shall:

- Schedule monthly calls.
- Provide questions to the Recipient prior to the monthly call.
- Provide call summary notes to Recipient of items discussed during call.

The Recipient shall:

- Review the questions provided by CAM prior to the monthly call
- Provide verbal answers to the CAM during the call.

Product:

- Email to CAM concurring with call summary notes.

Subtask 1.5.2 Davis-Bacon Act Reporting Compliance

The goal of this subtask is to ensure compliance with federal Davis-Bacon Act (DBA) requirements. BIL Title XI, Section 41101, applies wage rate requirements under DBA for construction, alteration, or repair work on Bipartisan Infrastructure Law (BIL) activities. This means that laborers and mechanics performing construction, alteration or repair on BIL projects shall be paid wages at the rates not less than those prevailing on similar projects in the locality as determined by the Secretary of Labor. In the case of a multi-phase project, DBA and associated compliance activities would not be triggered until the start of construction. Please review the Bipartisan Infrastructure Law Davis Bacon Act Compliance Using LCP Tracker with Monitoring and Reporting Guidance for BIL DBA Funding Recipients (https://www.energy.gov/sites/default/files/2024-02/BIL%20DBA%20Compliance%20using%20LCPtracker%20-%20External%20Guidance%20Final_0.pdf) for more information.

The Recipient shall:

- Submit proposed Wage Determination(s) (WD) or Collective Bargaining Agreement(s) (CBA) for set-up information in LCPtracker for prime recipient and all Subrecipients and

contractors to the CAM as soon as possible and no later than one month prior to start of construction.
    - Notify the CAM if the recipient has a CBA.
    - A CBA will need a separate process of being sent to Department of Labor (DOL) for conformance/conversion to a specific WD for the project/prime.
- Provide access to LCPtracker for Subrecipients and subcontractors.
    - Including verification of identity.
- Ensure that all DBA/prevailing wage requirements flow down to Subrecipients and subcontractors.
- Submit weekly payrolls to LCPtracker.
- Monitor all subject weekly payroll submissions (subs and contractors).
- Ensure compliance with weekly payroll submissions and work with Subrecipients/subcontractors to correct submissions as needed.
- Submit Semi-Annual DBA Enforcement Reports in accordance with deadlines set by DOE.
- Notify CAM of any concerns with DBA compliance.
- Ensure that all Subrecipients and contractors submit proposed WD(s) or CBA(s).

Products:
- Proposed WD(s) or CBA(s) submitted to LCPtracker
- Weekly payrolls submitted to LCPtracker
- Semi-Annual DBA Enforcement Report

Subtask 1.6 Final Report
The goal of this subtask is to prepare a comprehensive Final Report that describes the original purpose, approach, and results of the work performed under this Agreement. When creating the Final Report Outline and the Final Report, the Recipient must use the CEC Style Manual provided by the CAM.

Subtask 1.6.1 Final Report Outline

The Recipient shall:
- Prepare a *Final Report Outline* in accordance with the *Energy Commission Style Manual* provided by the CAM.

Recipient Products:
- Final Report Outline (draft and final)

CAM Products:
- Energy Commission Style Manual
- Comments on Draft Final Report Outline
- Acceptance of Final Report Outline

Subtask 1.6.2 Final Report

The Recipient shall:
Prepare a *Final Report* for this Agreement in accordance with the approved Final Report Outline, Energy Commission Style Manual, and Final Report Template provided by the

CAM. Report elements that may be required are as follows:
    - Cover page
    - Credits page on the reverse side of cover with legal disclaimer
    - Acknowledgements page
    - Preface
    - Abstract, keywords, and citation page
    - Table of Contents
    - Executive summary
    - Body of the report
    - References
    - Glossary/Acronyms
    - Bibliography
    - Appendices
  - Attachments
  - Submit a draft of the report to the CAM for review and comment. The CAM will provide written comments to the Recipient on the draft product within 15 days of receipt.
  - Incorporate all CAM comments into the *Final Report*. If the Recipient disagrees with any comment, provide a *Written Responses to Comments* explaining why the comments were not incorporated into the final product.
- Submit the revised *Final Report* electronically with any Written Responses to Comments within 10 days of receipt of CAM's Written Comments on the Draft Final Report, unless the CAM specifies a longer time period or approves a request for additional time.

Products:
- Draft Final Report
- Written Responses to Comments *(if applicable)*
- Final Report

CAM Product:
- Written Comments on the Draft Final Report

MATCH FUNDS, PERMITS, AND SUBCONTRACTS

Subtask 1.7 Match Funds

The goal of this subtask is to ensure that the Recipient obtains any match funds planned for this Agreement and applies them to the Agreement during the Agreement term.

While the costs to obtain and document match funds are not reimbursable under this Agreement, the Recipient may spend match funds for this task. The Recipient may only spend match funds during the Agreement term, either concurrently or prior to the use of Community Energy Reliability and Resilience Investment Program funds. Match funds must be identified in writing, and the Recipient must obtain any associated commitments before incurring any costs for which the Recipient will request reimbursement.

The Recipient shall:
- Prepare a Match Funds Status Letter that documents the match funds committed to this Agreement. Provide within the letter:
  - A list of the match funds that identifies:
    - The amount of cash match funds, their source(s) (including a contact name,

address, and telephone number), and the task(s) to which the match funds will be applied.
    - The amount of each in-kind contribution, a description of the contribution type (e.g., property, services), the documented market or book value, the source (including a contact name, address, and telephone number), and the task(s) to which the match funds will be applied. If the in-kind contribution is equipment or other tangible or real property, the Recipient must identify its owner and provide a contact name, address, telephone number, and the address where the property is located.
    - If different from the solicitation application, provide a letter of commitment from an authorized representative of each source of match funding that the funds or contributions have been secured.
- At the Kick-off meeting, discuss match funds and the impact on the project if they are significantly reduced or not obtained as committed. Match funds will be included as a line item in the Quarterly Progress Reports and will be a topic at CPR meetings.
- Provide a *Supplemental Match Funds Notification Letter* to the CAM of receipt of additional match funds.
- Provide a *Match Funds Reduction Notification Letter* to the CAM if existing match funds are reduced during the Agreement. Reduction of match funds may trigger a CPR meeting, or, if federal requirements are violated by the reduction, cancellation of the Agreement.
- Complete a *Match Funds Spending Plan* that outlines how CEC and match funds, per budget category, will be spent over the term of the agreement.

Products:
- Match Funds Status Letter
- Supplemental Match Funds Notification Letter *(if applicable)*
- Match Funds Reduction Notification Letter *(if applicable)*
- Match Funds Spending Plan

Subtask 1.8 Permits
The goal of this subtask is to obtain all permits required for work completed under this Agreement in advance of the date they are needed to keep the Agreement schedule on track. Permit costs and the expenses associated with obtaining permits are not reimbursable under this Agreement, with the exception of costs incurred by University of California recipients. Permits must be identified and obtained before the Recipient may incur any costs related to the use of the permit(s) for which the Recipient will request reimbursement.

The Recipient shall:
- Prepare a *Permit Status Letter* that documents the permits required to conduct this Agreement. If no permits are required at the start of this Agreement, then state this in the letter. If permits will be required during the Agreement, provide in the letter:
    - A list of the permits that identifies: (1) the type of permit; and (2) the name, address, and telephone number of the permitting jurisdictions or lead agencies.
    - The schedule the Recipient will follow in applying for and obtaining the permits.
- The list of permits and the schedule for obtaining them will be discussed at the Kick-off meeting (subtask 1.2), and a timetable for submitting the updated list, schedule, and copies of the permits will be developed. The impact on the project if the permits are not

obtained in a timely fashion or are denied will also be discussed. If applicable, permits will be included as a line item in progress reports and will be a topic at CPR meetings.
- If during the Agreement additional permits become necessary, then provide the CAM with an *Updated List of Permits* (including the appropriate information on each permit) and an *Updated Schedule for Acquiring Permits*.
- Send the CAM a *Copy of Each Approved Permit*.
- If during the Agreement permits are not obtained on time or are denied, notify the CAM within 5 days. Either of these events may trigger a CPR meeting.

Products:
- Permit Status Letter
- Updated List of Permits *(if applicable)*
- Updated Schedule for Acquiring Permits *(if applicable)*
- Copy of Each Approved Permit *(if applicable)*

Subtask 1.9 Obtain and Execute Subcontracts and Agreements with Site Hosts
The goals of this subtask are to: (1) procure and execute subcontracts and site host agreements, as applicable, required to carry out the tasks under this Agreement; and (2) ensure that the subcontracts and site host agreements are consistent with the Agreement terms and conditions and the Recipient's own contracting policies and procedures.

The Recipient shall:
- Execute and manage subcontracts and coordinate subcontractor activities in accordance with the requirements of this Agreement.
- Execute and manage site host agreements, and ensure the right to use the project site throughout the term of the Agreement, as applicable. A site host agreement is not required if the Recipient is the site host.
- Notify the CEC in writing immediately, but no later than five calendar days, if there is a reasonable likelihood the project site cannot be acquired or can no longer be used for the project.
- Incorporate this Agreement by reference into each subcontract.
- Include any required CEC flow-down provisions in each subcontract, in addition to a statement that the terms of this Agreement will prevail if they conflict with the subcontract terms.
- Submit a *Subcontract and Site Letter* to the CAM describing the subcontracts and any site host agreement needed or stating that no subcontracts or site host agreements are required.
- If requested by the CAM, submit a draft of each *Subcontract* and any *Site Host Agreement* required to conduct the work under this Agreement.
- If requested by the CAM, submit a final copy of each executed subcontract.
- Notify and receive written approval from the CAM prior to adding any new subcontractors (see the terms regarding subcontractor additions in the terms and conditions).

Products:
- Subcontract and Site Letter
- Draft Subcontracts *(if required by the CAM)*
- Draft Site Host Agreement (*if requested by the CAM)*

- Final Subcontracts (*if requested by the CAM)*
- Final Site Host Agreement *(if requested by the CAM)*

Subtask 1.10 Project Metrics
The goal of this subtask is to finalize key performance measures for the project and report on final results in achieving those measures. The performance measures should be a combination of job creation and training, community engagement activities and events, and impact metrics that provide the most significant indicator of the project's potential success.

The Recipient shall:

- Complete and submit the *Annual Project Metrics and Impact Report* to the CAM prior to December 15 of each project year. Each Program Metrics and Impact Report must:
- Detail baseline impact metrics (performance measures), current fiscal year impact metrics (performance measures), job creation and training, workforce demographics, and community engagement activities and events.
- See the Project Metrics and Impact Report Format Attachment and Instructions for the required specifications:
    - Annual Project Metrics and Impact Report Instructions & Template: https://www.energy.ca.gov/media/9029
    - Annual Project Metrics and Impact Report Template: https://www.energy.ca.gov/media/9030
- Develop and submit a *Project Metrics Results* document describing the extent to which the Recipient met each of the initial performance metrics.
- Discuss the *Project Metrics Results* at the Final Meeting.

Products:

- Annual Project Metrics and Impact Report (submitted annually and two full reporting periods after project completion)
- Project Metrics Results

IV. TECHNICAL TASKS

TASK 2 – DETAILED PLANNING

The goal of this task is complete planning, conceptual design, early procurement, and permitting submittal.

Subtask 2.1 Refine Project Management Plan and Data Management Plan

The Recipient shall:

- Prepare a *Refined Project Management Plan*, in cooperation with the CAM, for transparent management of project execution that includes but is not limited to:
    - Project governance;
    - Roles and responsibilities;
    - Project organization;
    - Schedule, budget, and risk management;
    - Quality assurance;
    - Change management;
    - Communications protocols;
    - Decision-making processes;
    - Performance monitoring; and
    - Reporting procedures.
- Prepare a *Refined Data Management Plan*, in cooperation with CAM, for appropriate security and dissemination of project data that documents procedures including but not limited to:
    - Data collection,
    - Data validation,
    - Data storage,
    - Cybersecurity and access controls,
    - Data retention and backup,
    - Interoperability,
    - Dissemination, and
    - Long-term data stewardship.

Products:

- Refined Project Management Plan (draft and final)
- Refined Data Management Plan (draft and final)

Subtask 2.2 Identify, Finalize, and Execute All Contracts Required

The Recipient shall:

- Identify all contracts needed to complete the project and execute with the contract participants.
- Develop a *Contract Execution Report* that:
    - Identifies each contract, the contracting parties, summarizes the purpose and scope of each contract,
    - Provides execution status and key milestone dates,
    - Identifies any remaining contracts required to support project completion, and
    - Describes any material contracting issues or risks affecting project implementation.

Products:
- Contract Execution Report

Subtask 2.3 Develop a Detailed Risk and Safety Plan Including Project Risk Register

The Recipient shall:
- Create a *Risk and Safety Plan* that details risk register, risk mitigation, and safety strategy.
- Utilized the Risk and Safety Plan through the entire project to manage the project and all operational/technical risks.

Products:
- Risk and Safety Plan

Subtask 2.4 Complete Conceptual Design for LDES, Utility Interconnection, and Site Layout

The Recipient shall:
- Complete a *Conceptual Design Package* for the LDES and its integration with the utility grid that is a high-level design for scoping the detailed design with minimal barriers.

Products:
- Conceptual Design Package

Subtask 2.5 Requisition Equipment and Supplies with Long Lead Times

The Recipient shall:
- Requisition of long lead time equipment and supplies to mitigate risk by ordering as soon as reasonably possible.
- Submit a *Procurement Memo for Long Lead Time Equipment and Supplies* that includes but is not limited to:
    - Description of the equipment and supplies being requisitioned expeditiously, and
    - Which entities are procuring this equipment (whether prime recipient or subcontractor).

Products:
- Procurement Memo for Long Lead Time Equipment and Supplies

TASK 3 – DESIGN AND DIGITAL CONFIGURATION
Complete detailed engineering design, operational planning, and cybersecure digital configuration for the LDES and interconnection.

Subtask 3.1 Complete Detailed Construction and Electrical Design

The Recipient shall:
- Complete a *Site Design* to support construction and operation that includes but is not limited to:

  - Overall site layout,
  - Grading and drainage,
  - Access roads,
  - Equipment locations,
  - Foundations,
  - Utility routing,
  - Fencing,
  - Security features,
  - Stormwater management, and
  - Other necessary civil engineering elements.
- Submit an *Updated Permit Status Letter* demonstrating that all required permits have been acquired.
- Complete a *Building Design Packa*ge to support project construction and building operation, including design documentation that is not limited to:
  - Architectural,
  - Structural,
  - Mechanical,
  - Electrical,
  - Fire protection,
  - Life safety, and
  - Code compliance.
- Complete an *LDES Design Package* for project implementation that includes but is not limited to:
  - System architecture,
  - Battery equipment specifications,
  - Process flow diagrams,
  - Balance-of-plant equipment,
  - Piping and instrumentation,
  - Thermal management,
  - Monitoring and control interfaces,
  - Safety systems, and
  - Equipment layouts.
- Complete an *Electrical Infrastructure Design Package* for project construction and commissioning that includes but is not limited to:
  - One-line diagrams,
  - Equipment layouts,
  - Conductor and cable schedules,
  - Grounding design,
  - Protection and coordination studies,
  - Relay settings,
  - Communications interfaces,
  - Utility interconnection design, and
  - other necessary supporting electrical calculations.

Products:

- Site Design
- Updated Permit Status Letter
- Building Design Package
- LDES Design Package

- Electrical Infrastructure Design Package

Subtask 3.2 Complete Digital Design

The Recipient shall:

- Complete a *Controls and Cybersecurity Design Package* that includes but is not limited to:
    - Controls architecture that defines the following:
        - System control philosophy,
        - Functional architecture,
        - Control logic,
        - Operating modes,
        - Communications interfaces,
        - Device interoperability,
        - Alarm management,
        - Supervisory control functions, and
        - Interfaces with field equipment and utility control systems.
    - Cybersecurity plan that defines:
        - Cybersecurity architecture,
        - Network segmentation,
        - Authentication and access control,
        - System monitoring,
        - Incident response procedures,
        - Patch and configuration management,
        - Secure communications, and
        - Measures to protect the confidentiality, integrity, and availability of project systems and data.
- Complete a *Digital Design Package* that includes but is not limited to:
    - Digital design for the LDES communication architecture
    - How the system will integrate with Supervisory Control and Data Acquisition (SCADA) control architecture and the utility's Advanced Distribution Management System (ADMS)
    - Plan for test data flows, such as integration with the DOE's Rapid Operational Validation Initiative (ROVI).
- Prepare a *CPR Report #1* in accordance with subtask 1.3.
- Participate in a CPR Meeting.

Products:

- Controls and Cybersecurity Design Package
- Digital Design Package
- CPR Report #1

Subtask 3.3 Complete Operational Design

The Recipient shall:

- Produce an *Operational Design Package* that establishes an operational plan incorporating specifics for each use case or combination of use cases, included scenario specific plans for startup, shutdown, emergency shutoff, testing, maintenance, and remote/local operating procedures.

Products:

- Operational Design Package

TASK 4 – CONSTRUCTION AND COMMISSIONING

This task prepares the site, erects the building, installs the LDES, configures controls and cybersecurity, integrates system integration, and commissions the LDES.

The Recipient shall:

- Receive deliveries of all equipment required for project.
- Prepare the site for construction with civil engineered plans to support installed equipment, the LDES, and building.
- Complete *Site Preparation Memo* that describes work completed to prepare site, including but not limited to grading, fencing, and foundation work.
- Assemble the building that will house the LDES equipment.
- Within the building, install the LDES racks, modules, and ancillary equipment.
- Produce an *LDES Construction Completion Report* that:
    - Documents the completion of construction activities,
    - Summarizes installed equipment and major construction milestones,
    - Identifies any deviations from the approved design,
    - Confirms completion of required inspections, and
    - Demonstrates readiness to begin system commissioning.
- Install all connecting electrical infrastructure such as breakers, transformers, cables and control wiring.
- Submit an *Equipment Installation Log* that lists the electrical infrastructure installation, including but not limited to switchgear, transformers, and instrumentation.
- Configure all controls associated with interdependent systems such as SCADA/ADMS/Operator Screens and LDES.
- Configure cybersecurity measures to meet the Recipients requirements as a grid operator.
- Submit a *Controls and Cybersecurity Configuration Memo* that describes the final controls implementation, communications configuration, cybersecurity settings, software and firmware versions, network architecture, user access configuration, and any approved deviations from the Controls and Cybersecurity Design Package.
- Perform system commissioning and submit a *Commissioning Test Results and Validation Report* that includes:
    - Operational & safety training conducted
    - LDES unit test results
    - SCADA/ADMS unit test results
    - LDES and grid integration test results
    - Baseline LDES metrics for State of Health (SOH)
    - ROVI integration test results
- Prepare a *CPR Report #2* in accordance with subtask 1.3.
- Participate in a CPR Meeting.

Products:

- Site Preparation Memo
- LDES Construction Completion Report

- Equipment Installation Log
- Controls and Cybersecurity Configuration Memo
- Commissioning Test Results and Validation Report
- CPR Report #2

TASK 5 – OPERATIONS, TESTING, VALIDATION, AND PERFORMANCE ASSESSMENT
The goal of this task is to operate, maintain and validate the LDES, conduct testing to confirm performance, availability, and grid use case benefits.

The Recipient shall:

- Place the LDES into operational status and transition controls for operational algorithms and personnel.
- Establish a *Maintenance Plan* for the LDES that includes preventive and corrective maintenance procedures, inspection and testing intervals, equipment servicing requirements, spare parts strategy, personnel responsibilities, safety requirements, and procedures for updating the plan based on operational experience.
- Maintain the LDES in alignment with the Maintenance Plan and, as necessary, replace any failed or poorly performing components. Update the Maintenance Plan as appropriate. Regularly maintain *Maintenance Logs* that document all scheduled and unscheduled maintenance activities, inspections, repairs, component replacements, equipment failures, corrective actions, and maintenance observations performed during project operations.
- Develop an *Operational Test Plan* and *Operational Use Matrix* that defines operating objectives, dispatch strategies, operating procedures, performance targets, and operational constraints for the LDES, and identify each planned operational use case, its objectives, operating conditions, success criteria, performance metrics, and expected grid benefits, respectively.
- Operate the LDES in accordance with the Operational Plan, modifying the plan based on operational feedback and performance data as needed.
- Validate use cases established in the Operational Use Matrix for effectiveness and interaction.
- Establish *Initial Operational Metrics Baseline* for performance, maintenance, and operational reliability to monitor health of the battery.
- Once operations have commenced, collect performance data and disseminate to the appropriate repositories, such as the Recipients SCADA and ADMS systems and the DOE's ROVI database. Ensure that the performance data meets appropriate industry specifications for interoperability.
- Produce a *Performance Metrics Dataset and Summary Report* that summarizes operational performance, system availability, reliability, efficiency, battery SOH, maintenance history, operational events, validated use-case results, economic performance, and project metrics, including an assessment of overall project performance against project objectives.
- Conduct a Technical Economic Assessment and an Operational Performance Assessment (OPA) each year of operation during agreement term.
- Report results of the TEA and OPA in an *Annual Operational and Economic Metrics Assessment Report*.
- In the potential event that equipment fails, replace it with the same or better.

- In the potential event that equipment is performing below expectations, replace it with better equipment.
- Provide feedback to equipment manufacturer regarding any equipment challenges.
- Prepare a *CPR Report #3* in accordance with subtask 1.3.
- Participate in a CPR Meeting.

Products:

- Maintenance Plan
- Maintenance Logs
- Operational Test Plan
- Operational Use Matrix
- Initial Operational Metrics Baseline
- Performance Metrics Dataset and Summary Report
- Annual Operational and Economic Metrics Assessment Report Year 1
- Annual Operational and Economic Metrics Assessment Report Year 2
- CPR Report #3

TASK 6: ENGAGEMENT

The goal of this task is to plan and execute engagement activities and report on benefits and metrics identified in Project Metrics, Attachment 09.

The Recipient shall:

- Develop and submit an *Engagement Plan* in coordination with a community-based organization(s) or Tribe(s), which outlines the planned engagement activities and summarizes the qualitative and quantitative impacts of engagement. The plan should include a timeline, locations, role of the community-based organization(s) (CBO(s)) or Tribe(s), type of engagement and method, and any other relevant information.
- Conduct all activities listed in the *Engagement Plan* and provide a copy of any relevant *Engagement Materials* to the CAM.
    - Invite CAM to all engagement activities as an optional attendee.
- Host outage-preparedness workshops with tribal emergency response staff focused on critical Quechan facilities, such as health, education, and emergency response centers.
- Incorporate training on resilient power resources, outage response coordination, and safe energy use practices.
- Conduct quarterly forums and milestone-based engagement sessions to provide updates, invite community feedback, and strengthen transparency.
- Ensure that project design and implementation reflect local priorities, especially for resilience use cases.
- Host informational sessions at schools, community centers, and through commissioning events to highlight the role of LDES in supporting resilient energy and protection from extreme weather.
- Develop educational materials in collaboration with tribal educators to enhance energy literacy.
- Promote the Recipients apprenticeship and internship programs, such as the paid Summer Student Program, with targeted recruitment of tribal members and local community residents.

- Utilize workshops and outreach campaigns to link community members to training pathways in energy careers.
- Summarize above activities in an *Engagement Report* that includes, but is not limited to, a description of any feedback obtained from attendees and how this feedback informed the implementation of technical tasks.
- Provide at least (6) six *High Quality Digital Photographs* (minimum resolution of 1300x500 pixels in landscape ratio) of engagement activities.

Products:

- Engagement Plan (draft and final)
- Engagement Report (draft and final)
- Engagement Materials (data, presentations, photos, literature, etc.)
- High-Quality Digital Photographs

TASK 7 WORKFORCE DEVELOPMENT

The goal of this task is to develop and execute a workforce development plan that will attract, train, and retain a skilled workforce for this project through the Recipient's internal apprenticeship programs and regional training providers. This task includes offering system-specific technical certification, OSHA-compliant safety training, and renewable energy training for durable careers in the energy industry. The project will recruit with targeted outreach via career awareness events, workforce boards, community and CBO's to provide workforce development opportunities.

The Recipient Shall:

- Develop and submit a *Workforce Development Plan* which includes but is not limited to:
  - An outline of the planned activities that the recipient will conduct to support entry-level and advanced skill development for direct project activities
  - the roles of all participants and partners
  - summary of the quantitative and qualitative impacts of the activities; and
  - a timeline of activities with locations, remote options, etc.
- Implement activities identified in the Workforce Development Plan.
- Conduct outreach and recruitment with the Quechan Tribe, local workforce boards, and community-based organizations to reach surrounding community in the hiring effort for this project.
- Provide hands-on training during project construction, installation, and commissioning of the LDES, pairing trainees with experienced electricians, technicians, and engineers.
- Collaborate with local workforce development partners, including the Quechan Tribe, Imperial Valley College, local workforce development boards, community-based organizations, union partners, and other regional training providers for candidate recruitment.
- Coordinate with union partners and Imperial Valley College to connect participants to certified pathways directly relevant to this project.
- Assist with labor program development.
- Integrated career awareness information into engagement workshops to introduce youth, tribal members, and veterans to energy career opportunities.
- Summarize above activities in a *Workforce Development Report*.
- Submit copies of any *Training and Promotional Materials*.

- Provide at least (6) six *High-Quality Digital Photographs* (minimum resolution of 1300x500 pixels in landscape ratio)

Products:

- Workforce Development Plan (draft and final)
- Workforce Development Report (draft and final)
- Training and Promotional Materials
- High-Quality Digital Photographs

V. PROJECT SCHEDULE

Please see the attached Excel spreadsheet.