New Agreement # EPC-19-020 (to be completed by CGL office)

<table>
<thead>
<tr>
<th>B) Division</th>
<th>Agreement Manager:</th>
<th>MS-</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERDD</td>
<td>Katharina Gerber</td>
<td>43</td>
<td>916-327-2201</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C) Recipient’s Legal Name</th>
<th>Federal ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHER Minerals, LLC</td>
<td>84-4180674</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>D) Title of Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salton Sea Geothermal Lithium Recovery Demonstration Project</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E) Term and Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start Date</td>
</tr>
<tr>
<td>6/1/2020</td>
</tr>
</tbody>
</table>

F) Business Meeting Information

- ARFVTP agreements $75K and under delegated to Executive Director
- Proposed Business Meeting Date 5/13/2020 ☒ Consent ☐ Discussion
- Business Meeting Presenter Chuck Gentry Time Needed: 5 minutes
- Please select one list serve. EPIC (Electric Program Investment Charge)

**Agenda Item Subject and Description:**

BHER MINERALS, LLC. Proposed resolution approving agreement EPC-19-020 with BHER Minerals, LLC for a $6,000,000 grant to design, build, and commission an integrated system that includes geothermal brine pre-treatment and lithium recovery processes and adopting staff's determination that this action is exempt from CEQA. The proposed demonstration project will deploy an innovative technology at an existing geothermal power facility in Calipatria, California to cost-effectively process at least 100 gallons of geothermal brine per minute and produce a battery-grade lithium carbonate at a production cost of approximately $4,000 per tonne.

**G) California Environmental Quality Act (CEQA) Compliance**

1. Is Agreement considered a “Project” under CEQA?
   - ☒ Yes (skip to question 2)
   - ☐ No (complete the following (PRC 21065 and 14 CCR 15378)):
     
     Explain why Agreement is not considered a “Project”:

2. If Agreement is considered a “Project” under CEQA:
   
   a) ☒ Agreement IS exempt.
     
     - ☐ Statutory Exemption. List PRC and/or CCR section number:
     - ☐ Common Sense Exemption. 14 CCR 15061 (b) (3)

     Explain reason why Agreement is exempt under the above section:
     California Code of Regulations, title 14, section 15303 provides that construction and location of limited numbers of new, small facilities or structures; installation of
small new equipment and facilities in small structures; and the conversion of existing small structures from one use to another where only minor modifications are made in the exterior of the structure, are categorically exempt from the provisions of the California Environmental Quality Act. Construction under this project will entail construction of a shelter to protect the lithium extraction equipment, construction of a small laboratory which will be approximately the size of a trailer, installation of lithium extraction equipment including pumps, an air compressor, filtration equipment, and tanks to hold small amounts of brine and chemicals. The total footprint of this installation and construction will be 10,000 square feet or less. All construction and installation will be on an existing 10,000 square foot concrete pad at an existing geothermal facility. For these reasons, the proposed work will not have any significant effect on the environment and falls under section 15303.

California Code of Regulations, title 14, section 15301 provides that projects which consist of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of existing or former use, are categorically exempt from the provisions of the California Environmental Quality Act. The construction and installation described above for lithium extraction will all take place at an existing geothermal facility, specifically on an existing 10,000 square foot concrete pad in a previously disturbed lot at the facility. For these reasons, the proposed work will not have any significant effect on the environment and falls under section 15301.

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

Check all that apply

☐ Initial Study
☐ Negative Declaration
☐ Mitigated Negative Declaration
☐ Environmental Impact Report
☐ Statement of Overriding Considerations

H) List all subcontractors (major and minor) and equipment vendors: (attach additional sheets as necessary)

<table>
<thead>
<tr>
<th>Legal Company Name:</th>
<th>Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>See attached</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Legal Company Name:</th>
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</table>
J) Budget Information

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Funding Year of Appropriation</th>
<th>Budget List Number</th>
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<tr>
<td>EPIC</td>
<td>18-19</td>
<td>301.001F</td>
<td>$6,000,000</td>
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</tbody>
</table>

R&D Program Area: EGRO: Renewables
TOTAL: $6,000,000

Explanation for “Other” selection
Reimbursement Contract #:    Federal Agreement #:    

K) Recipient’s Contact Information
1. Recipient’s Administrator/Officer
   Name: Lenie Sarion
   Address: 7030 Gentry Rd
   City, State, Zip: Calipatria, CA 92233-9720
   Phone: 760-348-4060
   E-Mail: Lenie.Sarion@calenergy.com

2. Recipient’s Project Manager
   Name: Eric Besseling
   Address: 7030 Gentry Rd
   City, State, Zip: Calipatria, CA 92233-9720
   Phone: 760-550-8726
   E-Mail: EBesseling@bherenewables.com

L) Selection Process Used
   ☒ Competitive Solicitation     Solicitation #: GFO-19-303
   ☐ First Come First Served Solicitation #:

M) The following items should be attached to this GRF
   1. Exhibit A, Scope of Work     ☒ Attached
   2. Exhibit B, Budget Detail     ☒ Attached
   3. CEC 105, Questionnaire for Identifying Conflicts     ☒ Attached
   4. Recipient Resolution       ☐ N/A     □ Attached
   5. CEQA Documentation         ☐ N/A     □ Attached

___________________________ ______________
Agreement Manager Date

___________________________ ______________
Office Manager Date

___________________________ ______________
Deputy Director Date
List all subcontractors (major and minor) and equipment vendors

<table>
<thead>
<tr>
<th>Legal Company Name</th>
<th>Budget - CEC share</th>
<th>Match share</th>
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<tr>
<td>The Regents of the University of California (UC Riverside)</td>
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<td>DOE- Lawrence Berkeley National Laboratory</td>
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<td>CEERT</td>
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<td>Venture Engineering and Construction Inc.</td>
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<td>The Grant Farm, Inc., DBA Momentum</td>
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</table>
EXHIBIT A  
Scope of Work

I. TASK ACRONYM/TERM LISTS

A. Task List

<table>
<thead>
<tr>
<th>Task #</th>
<th>CPR</th>
<th>Task Name</th>
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<tbody>
<tr>
<td>1</td>
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<td>General Project Tasks</td>
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<tr>
<td>2</td>
<td>X</td>
<td>Demonstration of Lithium Recovery System</td>
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<td>3</td>
<td></td>
<td>Evaluation of Project Benefits</td>
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<tr>
<td>4</td>
<td></td>
<td>Technology/Knowledge Transfer Activities</td>
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<td>5</td>
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<td>Production Readiness Plan</td>
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B. Acronym/Term List

<table>
<thead>
<tr>
<th>Acronym/Term</th>
<th>Meaning</th>
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<tbody>
<tr>
<td>CAM</td>
<td>Commission Agreement Manager</td>
</tr>
<tr>
<td>CAO</td>
<td>Commission Agreement Officer</td>
</tr>
<tr>
<td>CPR</td>
<td>Critical Project Review</td>
</tr>
<tr>
<td>Li₂CO₃</td>
<td>Lithium Carbonate</td>
</tr>
<tr>
<td>LiCl</td>
<td>Lithium Chloride</td>
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<td>Recipient</td>
<td>BHER Minerals, LLC</td>
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<tr>
<td>System</td>
<td>Lithium recovery system that includes brine pretreatment and lithium extraction steps</td>
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<td>TAC</td>
<td>Technical Advisory Committee</td>
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<tr>
<td>Tonne</td>
<td>Metric ton (1,000 kg)</td>
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<tr>
<td>M&amp;V</td>
<td>Measurement and Verification</td>
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II. PURPOSE OF AGREEMENT, PROBLEM/SOLUTION STATEMENT, AND GOALS AND OBJECTIVES

A. Purpose of Agreement

The purpose of this Agreement is to fund, design, build, and operate an integrated, geothermal brine pre-treatment and lithium recovery demonstration system at an existing geothermal power plant in Calipatria, California. The system will process at least 100 gallons of brine per minute and demonstrate cost-effective lithium recovery with minimal environmental footprint.

B. Problem/ Solution Statement

**Problem**
Commericially viable recovery of lithium from geothermal brine resources represents a significant technological and financial challenge, but also a tremendous opportunity for California. Even the best sources of brine in the world comprise only 0.1% lithium, with the remaining 99.9% composed of low-value elements, such as sodium, magnesium, and calcium. Traditional lithium recovery

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.
EXHIBIT A
Scope of Work

comes from two sources: conventional brine evaporation ponds and hard rock (e.g., spodumene, clay) resources. Evaporation pond resources rely on inefficient, time-consuming (up to 18 months) evaporation processes with a concurrent loss of valuable water due to evaporation. Use of hard rock resources have significant environmental consequences. Significant amounts of acid and base are required to break down hard rock. Once the lithium is liberated, significant waste must be stored in tailing ponds that contain hazardous materials originally in the rock, or clay. The evaporation ponds make financial sense only for a few, anomalously high-quality brine resources in South America or in the desert east of the Sierra Nevada mountain range. As a result, there has been only one new lithium brine evaporation project in the past 25 years, despite soaring lithium demand and prices. Effective and environmentally-friendly approaches to lithium recovery from brine have not yet been commercialized.

Solution
The project will deploy a cost-effective process to extract lithium from Salton Sea geothermal brine, while minimizing environmental impact. The proposed project, if successful, will lead to lithium production of significant scale that will not require environmentally harmful tailing ponds or significant water losses due to evaporation. The system will rely on a modular technology that will enable lithium producers to optimize capital and operating costs, accelerate project startup, and unlock significant new lithium resources, while greatly minimizing environmental burdens and supporting sustainable lithium recovery.

C. Goals and Objectives of the Agreement

Agreement Goals
The goals of this Agreement are to:

- Design, build, and demonstrate all operational steps of the lithium recovery from geothermal brine at an existing geothermal power plant in Calipatria, California operated by CalEnergy Recourses LTD;
- Develop and demonstrate a lithium recovery system that will improve the economic productivity and flexibility of existing geothermal power plant facilities;
- Demonstrate, by processing at least 100 gallons of brine per minute a lithium recovery technology that has already been demonstrated and proven at the pilot scale; and
- Demonstrate the conversion of samples of extracted lithium chloride to battery-grade lithium carbonate.

Ratepayer Benefits:² This Agreement will result in the ratepayer benefits of: greater electricity reliability, lower costs, and increased safety by enabling the cost-effective production of battery-grade lithium carbonate and lithium hydroxide from lithium chloride recovered from geothermal brine. By producing and selling high-value lithium compounds, existing geothermal power plants will be able to reduce the cost of power generation by as much as 35 percent, which will enable them to stabilize ratepayer costs over long periods of time or even reduce them. The cost-effective production of lithium carbonate and lithium hydroxide from geothermal brine will also support the development of affordable, lithium-ion-based grid storage. This, in turn, will support the ability of wind and solar generation facilities—which produce power intermittently—to shift their energy

² California Public Resources Code, Section 25711.5(a) requires projects funded by the Electric Program Investment Charge (EPIC) to result in ratepayer benefits. The California Public Utilities Commission, which established the EPIC in 2011, defines ratepayer benefits as greater reliability, lower costs, and increased safety (See CPUC “Phase 2” Decision 12-05-037 at page 19, May 24, 2012, CPUC “Phase 2” Decision 12-05-037).
EXHIBIT A  
Scope of Work

Supply to the utility grid at times of excess production. In this way, the project will lead to lower-cost renewable electricity and a more reliable grid.

Additionally, by improving the economics associated with the construction and operation of geothermal power plants in California, the project will also encourage the construction of new plants, which will enable California to shift more of its baseload generation capacity to clean geothermal power and away from more carbon-intensive sources, such as nuclear and fossil-based natural gas. By reducing reliance on these sources and improving grid reliability, the proposed technology could, once commercialized, also increase ratepayer safety by reducing emissions of GHGs and toxic air pollutants, thereby improving public health. Finally, deployment of more geothermal power plants directly supports California’s legislative mandates for the transition to 100% renewable energy.

Technological Advancement and Breakthroughs: This Agreement will lead to technological advancement and breakthroughs to overcome barriers to the achievement of the State of California’s statutory energy goals by demonstrating an advanced lithium recovery technology. The Salton Sea Known Geothermal Area contains an estimated six million tons of recoverable lithium within presently available geothermal resources. Yet, significant barriers stand in the way of accessing this abundant resource and using it to achieve many of the state's statutory energy goals, including increasing the value of geothermal resources to California’s electricity system.

The major challenges for lithium production in this region relate to the harsh chemistry of the brine and the difficulty of developing a low-cost and highly selective process for lithium recovery. These challenges have to date prevented commercial deployment of conventional lithium recovery technologies. The project team will test and demonstrate a unique approach to processing this challenging brine chemistry. The technological advancements to be pursued will be 1) the development of a pre-treatment process that will prepare the incoming brine for lithium removal during the subsequent lithium recovery phase and 2) the demonstration of a lithium recovery system capable of long-term, economic recovery of lithium from pre-processed geothermal brine.

Agreement Objectives
The objectives of this Agreement are to:

- Field-demonstrate lithium recovery from Salton Sea Known Geothermal Resource Area geothermal brine at a brine processing rate of at least 100 gallons per minute;
- Demonstrate a process that an estimated production cost of less than $4,000/metric ton of lithium carbonate equivalent;
- Demonstrate potential payback / return on investment of five years or less for a commercial scale system;
- Advance the proposed lithium recovery technology to at least TRL 8;
- Minimize environmental impacts by avoiding the use of evaporation ponds;
- Demonstrate lithium recovery of >85% from raw brine to high-purity lithium carbonate; and
- Demonstrate fresh water usage below 50,000 gallons per tonne of lithium carbonate.

---

3 California Public Resources Code, Section 25711.5(a) also requires EPIC-funded projects to lead to technological advancement and breakthroughs to overcome barriers that prevent the achievement of the state’s statutory and energy goals.
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). 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:
  o 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 Energy Commission’s 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 or CD-ROM.

The following describes the accepted formats for electronic data and documents provided to the Energy Commission as products under this Agreement, and establishes the software versions that will be required to review and approve all software products:
EXHIBIT A
Scope of Work

- 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.
- Documents intended for public distribution will be in PDF file format.
- The Recipient must also provide the native Microsoft file format.
- Project management documents will be in Microsoft Project file format, version 2007 or later.

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.
- C# Programming Language with Presentation (UI), Business Object and Data Layers.
- SQL (Structured Query Language).
- 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 Energy Commission’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 Energy Commission 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., WebEx), with approval of the CAM.

The administrative portion of the meeting will include discussion of the following:
- Terms and conditions of the Agreement;
- Administrative products (subtask 1.1);
- CPR meetings (subtask 1.3);
- Match fund documentation (subtask 1.7);
- Permit documentation (subtask 1.8);
EXHIBIT A
Scope of Work

- 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 and invoices (subtask 1.5);
- Final Report (subtask 1.6);
- Technical Advisory Committee meetings (subtasks 1.10 and 1.11); and
- Any other relevant topics.

- Provide an Updated Project Schedule, List of Match Funds, and List of Permits, 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:
- Updated Project Schedule (if applicable)
- Updated List of Match Funds (if applicable)
- Updated List of Permits (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 Energy Commission 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 Energy Commission and the Recipient. As determined by the CAM, discussions may include project status, challenges, successes, advisory group findings and recommendations, final report preparation, and progress on technical transfer and production readiness activities (if applicable). 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 Energy Commission.

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 Energy Commission, but they may take place at another location, or may be conducted via electronic conferencing (e.g., WebEx) as determined by the CAM.

The Recipient shall:
- Prepare a CPR Report 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.
EXHIBIT A
Scope of Work

- Submit the CPR Report along with any other Task Products that correspond to the technical task for which the CPR meeting is required (i.e., if a CPR meeting is required for Task 2, submit the Task 2 products along with the CPR Report).
- Attend the CPR meeting.
- Present the CPR Report 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 and 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.
- 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)
- Task Products (draft and/or final as specified in the task)

CAM Products:

- CPR Agenda
- List of Expected CPR Participants
- Schedule for Providing a Progress Determination
- 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 Energy Commission staff to present project 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., WebEx), 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 findings, conclusions, 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 state-owned equipment.
EXHIBIT A
Scope of Work

- Need to file a Uniform Commercial Code Financing Statement (Form UCC-1) regarding the Energy Commission’s interest in patented technology.
- The Energy Commission’s request for specific “generated” data (not already provided in Agreement products).
- Need to document the Recipient’s disclosure of “subject inventions” developed under the Agreement.
- “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.
- Provide All Draft and Final Written Products on a CD-ROM or USB memory stick, organized by the tasks in the Agreement.

**Products:**
- Final Meeting Agreement Summary *(if applicable)*
- Schedule for Completing Agreement Closeout Activities
- All Draft and Final Written Products

**REPORTS AND INVOICES**

**Subtask 1.5 Progress 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.

The Recipient shall:
- Submit a monthly Progress Report to the CAM. Each progress report must:
  - Summarize progress made on all Agreement activities as specified in the scope of work for the preceding month, including accomplishments, problems, milestones, products, schedule, fiscal status, and an assessment of the ability to complete the Agreement within the current budget and any anticipated cost overruns. See the Progress Report Format Attachment for the recommended specifications.
- 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 Fund and in-state expenditures.

**Products:**
- Progress Reports
- Invoices

**Subtask 1.6 Final Report**
The goal of this subtask is to prepare a comprehensive Final Report that describes the original purpose, approach, results, and conclusions of the work performed under this Agreement. The CAM will review the Final Report, which will be due at least **two months** before the Agreement
EXHIBIT A
Scope of Work

end date. When creating the Final Report Outline and the Final Report, the Recipient must use the 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 Style Manual provided by the CAM. (See Task 1.1 for requirements for draft and final products.)

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

CAM Product:
• 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, Style Manual, and Final Report Template provided by the CAM with the following considerations:
  o Ensure that the report includes the following items, in the following order:
    ▪ Cover page (required)
    ▪ Credits page on the reverse side of cover with legal disclaimer (required)
    ▪ Acknowledgements page (optional)
    ▪ Preface (required)
    ▪ Abstract, keywords, and citation page (required)
    ▪ Table of Contents (required, followed by List of Figures and List of Tables, if needed)
    ▪ Executive summary (required)
    ▪ Body of the report (required)
    ▪ References (if applicable)
    ▪ Glossary/Acronyms (If more than 10 acronyms or abbreviations are used, it is required.)
    ▪ Bibliography (if applicable)
    ▪ Appendices (if applicable) (Create a separate volume if very large.)
    ▪ Attachments (if applicable)
  o Ensure that the document is written in the third person.
  o Ensure that the Executive Summary is understandable to the lay public.
    ▪ Briefly summarize the completed work. Succinctly describe the project results and whether or not the project goals were accomplished.
    ▪ Identify which specific ratepayers can benefit from the project results and how they can achieve the benefits.
    ▪ If it’s necessary to use a technical term in the Executive Summary, provide a brief definition or explanation when the technical term is first used.
EXHIBIT A
Scope of Work

- Follow the Style Guide format requirements for headings, figures/tables, citations, and acronyms/abbreviations.
- Ensure that the document omits subjective comments and opinions. However, recommendations in the conclusion of the report are allowed.
- Include a brief description of the project results in the Abstract.

- 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.
- Consider incorporating all CAM comments into the Final Report. 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 Final Report 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.
- Submit one bound copy of the Final Report to the CAM along with Written Responses to Comments on the Draft Final Report.

Products:
- Final Report (draft and final)
- Written Responses to Comments on the Draft 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 Energy Commission 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. If no match funds were part of the proposal that led to the Energy Commission awarding this Agreement and none have been identified at the time this Agreement starts, then state this in the letter.

If match funds were a part of the proposal that led to the Energy Commission awarding this Agreement, then provide in 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
EXHIBIT A
Scope of Work

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. If applicable, match funds will be included as a line item in the 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 course of the Agreement. Reduction of match funds may trigger a CPR meeting.

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

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 course of 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 course of 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 course of 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.
EXHIBIT A
Scope of Work

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

Subtask 1.9 Subcontracts
The goals of this subtask are to: (1) procure subcontracts required to carry out the tasks under this Agreement; and (2) ensure that the subcontracts are consistent with the terms and conditions of this Agreement.

The Recipient shall:
- Manage and coordinate subcontractor activities in accordance with the requirements of this Agreement.
- Incorporate this Agreement by reference into each subcontract.
- Include any required Energy Commission 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.
- If required by the CAM, submit a draft of each Subcontract required to conduct the work under this Agreement.
- Submit a final copy of the executed subcontract.
- Notify and receive written approval from the CAM prior to adding any new subcontractors (see the discussion of subcontractor additions in the terms and conditions).

Products:
- Subcontracts \textit{(draft if required by the CAM)}

\textbf{TECHNICAL ADVISORY COMMITTEE}

\textbf{Subtask 1.10 Technical Advisory Committee (TAC)}
The goal of this subtask is to create an advisory committee for this Agreement. The TAC should be composed of diverse professionals. The composition will vary depending on interest, availability, and need. TAC members will serve at the CAM’s discretion. The purpose of the TAC is to:
- Provide guidance in project direction. The guidance may include scope and methodologies, timing, and coordination with other projects. The guidance may be based on:
  - Technical area expertise;
  - Knowledge of market applications; or
  - Linkages between the agreement work and other past, present, or future projects (both public and private sectors) that TAC members are aware of in a particular area.
- Review products and provide recommendations for needed product adjustments, refinements, or enhancements.
- Evaluate the tangible benefits of the project to the state of California, and provide recommendations as needed to enhance the benefits.
- Provide recommendations regarding information dissemination, market pathways, or commercialization strategies relevant to the project products.
EXHIBIT A
Scope of Work

The TAC may be composed of qualified professionals spanning the following types of disciplines:
- Researchers knowledgeable about the project subject matter;
- Members of trades that will apply the results of the project (e.g., designers, engineers, architects, contractors, and trade representatives);
- Public interest market transformation implementers;
- Product developers relevant to the project;
- U.S. Department of Energy research managers, or experts from other federal or state agencies relevant to the project;
- Public interest environmental groups;
- Utility representatives;
- Air district staff; and
- Members of relevant technical society committees.

The Recipient shall:
- Prepare a List of Potential TAC Members that includes the names, companies, physical and electronic addresses, and phone numbers of potential members. The list will be discussed at the Kick-off meeting, and a schedule for recruiting members and holding the first TAC meeting will be developed.
- Recruit TAC members. Ensure that each individual understands member obligations and the TAC meeting schedule developed in subtask 1.11.
- Prepare a List of TAC Members once all TAC members have committed to serving on the TAC.
- Submit Documentation of TAC Member Commitment (such as Letters of Acceptance) from each TAC member.

Products:
- List of Potential TAC Members
- List of TAC Members
- Documentation of TAC Member Commitment

Subtask 1.11 TAC Meetings
The goal of this subtask is for the TAC to provide strategic guidance for the project by participating in regular meetings, which may be held via teleconference.

The Recipient shall:
- Discuss the TAC meeting schedule with the CAM at the Kick-off meeting. Determine the number and location of meetings (in-person and via teleconference) in consultation with the CAM.
- Prepare a TAC Meeting Schedule that will be presented to the TAC members during recruiting. Revise the schedule after the first TAC meeting to incorporate meeting comments.
- Prepare a TAC Meeting Agenda and TAC Meeting Back-up Materials for each TAC meeting.
- Organize and lead TAC meetings in accordance with the TAC Meeting Schedule. Changes to the schedule must be pre-approved in writing by the CAM.
EXHIBIT A
Scope of Work

- Prepare TAC Meeting Summaries that include any recommended resolutions of major TAC issues.

The TAC shall:
- Help set the project team’s goals and contribute to the development and evaluation of its statement of proposed objectives as the project evolves.
- Provide a credible and objective sounding board on the wide range of technical and financial barriers and opportunities.
- Help identify key areas where the project has a competitive advantage, value proposition, or strength upon which to build.
- Advocate on behalf of the project in its effort to build partnerships, governmental support and relationships with a national spectrum of influential leaders.
- Ask probing questions that insure a long-term perspective on decision-making and progress toward the project’s strategic goals.

Products:
- TAC Meeting Schedule (draft and final)
- TAC Meeting Agendas (draft and final)
- TAC Meeting Back-up Materials
- TAC Meeting Summaries
IV. TECHNICAL TASKS

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.

Subtask 1.1 (Products) describes the procedure for submitting products to the CAM.

TASK 2: DEMONSTRATION OF LITHIUM RECOVERY SYSTEM

The goals of this task are to complete project engineering, design, procurement, construction, commissioning, and operation of the demonstration system, as well as measurement, verification, and analysis.

Subtask 2.1 Lithium Recovery System

The goals of this subtask are to design and engineer the brine pretreatment, lithium recovery system, procure all necessary parts, equipment, and construction contracts; install the proposed integrated system.

The Recipient shall:

- Identify final system / design parameters, including minimum operating temperature, chemicals requirements, production rate of co-products, and other design parameters relevant to the lithium recovery system, including brine pretreatment.
- Design and engineer the proposed brine pretreatment and lithium recovery system, providing for its full integration into the overall facility.
- Prepare and provide a Notification of Completion of Detailed Engineering Letter. This letter shall include, but is not limited to:
  - Engineering Summary Documents
  - Summary of lessons learned in the design phase
- Prepare the System Procurement Plan that will detail the process for procurement of equipment, materials, and services. The System Procurement Plan will include, but is not limited to:
  - Description of the work and bid packages
  - Methodology for receiving and evaluating the bid proposals
- Execute the System Procurement Plan.
- Prepare and provide a System Procurement Report.
- Prepare and provide a System Execution Plan for the lithium recovery system that will outline the budget and schedule for the completion of all construction and installation activities. The System Execution Plan will include, but is not limited to:
  - List of milestones relevant to the fabrication process
  - Gantt chart and detailed project schedule
  - Risk mitigation strategy
  - Quality control and quality assurance plan
- Implement the System Execution Plan.
- Prepare and provide to the CAM a System Execution Report for the facility that will evaluate the actual construction activities compared to the System Execution Plan. The System Execution Report will include, but is not limited to:
  - Final schedule of completed milestones
  - Description of lessons learned
EXHIBIT A
Scope of Work

- Summary of any major component changes or other updates that do not conflict with the scope of the proposed work
- Prepare and provide Written Notification of Completion and of Installation for the entire system that will notify the CAM that the construction and installation activities have been completed.

Products:
- Notification of Completion of Detailed Engineering Letter
- System Procurement Plan (draft and final)
- System Procurement Report
- System Execution Plan (draft and final)
- System Execution Report
- Written Notification of Completion and of Installation

Subtask 2.2 System Commissioning
The goals of this subtask is to commission the installed lithium recovery system.

The Recipient shall:
- Prepare and provide a Cold Testing and Commissioning Plan for the project that will detail the process, deliverables, and milestones associated with the testing and commissioning of the project, including integration of the system with the overall geothermal facility. The Testing and Commissioning Plan will include:
  - Description of the equipment to be tested
  - Description of the methodology to test the identified equipment
  - List of goals and objectives for the cold test
  - Description of the quality control and quality assurance practices for the cold test methodology
- Implement Cold Testing and Commissioning Plan.
- Prepare and provide a Cold Testing and Commissioning Report for the facility that will evaluate the test results. The Cold Testing and Commissioning Report will include:
  - Description of the results of the cold test for the identified equipment
  - Description of any major changes that were made based on findings during the cold testing
- Prepare and provide Written Notification of Completion of Commissioning for the facility that will notify the CAM that commissioning activities have been completed and that the plant is ready to commence commercial operations.

Products:
- Cold Testing and Commissioning Plan
- Cold Testing and Commissioning Report
- Written Notification of Completion of Commissioning

Subtask 2.3 Facility Operations
The goal of this subtask is to operate the demonstration facility for at least three months.
EXHIBIT A
Scope of Work

The Recipient shall:
- Initiate operation of the demonstration plant capable of processing no less than 100 gallons of geothermal brine per minute on an ongoing basis and producing lithium chloride suitable for conversion to battery-grade lithium carbonate.
- Provide and prepare Written Notification of Facility Operations.
- Operate the facility for at least three months.
- Demonstrate the conversion of extracted lithium chloride to, at minimum, eight five-kilogram samples (industry-standard for sample sizes) of battery-grade lithium carbonate.

Products:
- Written Notification of Facility Operations

Subtask 2.4 Measurement, Verification, and Analysis
The goals of this subtask are to collect operational data and other information and to use to conduct detailed analysis of project data.

The Recipient shall:
- Develop Written M&V Protocol for pre-installation measurements (and calculations) of energy consumption, GHG emissions, and criteria pollutant and toxic emissions.
- Develop a Measurement and Verification Plan that will include, but is not limited to:
  - Description of the monitoring equipment and instrumentation.
  - Description of the key input parameters and output metrics.
  - Description of the M&V protocol and analysis methods.
- Perform pre-installation measurements (and calculations) based on the M&V protocol.
- Prepare and provide a Pre-Installation M&V Findings Report.
- Develop M&V protocol for post-installation measurements (and calculations):
  - Energy consumption and GHG emissions.
  - Criteria pollutant and toxic emissions.
  - Hazardous materials, water consumption and hazardous/non-hazardous waste generation, if applicable.
- Perform post-installation measurements based on M&V protocol.
- Prepare and provide a Post-Installation M&V Findings Report.
- Develop Mass Balance Analysis for the demonstration project using data and supporting information collected in the M&V activities.
- Prepare and provide a Techno-Economic Analysis that will characterize the technical performance, primarily unit and system efficiency, and cost of lithium production from the lithium recovery test facility.
- Prepare a Data Collection Plan, which will include but not be limited to collection of data on the following parameters:
  - Brine throughput
  - Spent brine reinjection volume
  - Water consumption
  - LiCl production rate and amount
  - Li2CO3 production amount
  - Waste product streams: volume and/or mass
  - Cost / economic parameters
- Implement the Data Collection Plan.
EXHIBIT A
Scope of Work

- Complete and deliver to the CAM a Data Collection Report, which will summarize all data collected under the Data Collection Plan.

Products:
- M&V Protocol
- Measurement and Verification Plan
- Pre-Installation M&V Findings Report (draft and final)
- Post-Installation M&V Findings Report
- Mass Balance Analysis (draft and final)
- Techno-Economic Analysis (draft and final)

TASK 3 EVALUATION OF PROJECT BENEFITS
The goal of this task is to report the benefits resulting from this project.

The Recipient shall:
- Complete three Project Benefits Questionnaires that correspond to three main intervals in the Agreement: (1) Kick-off Meeting Benefits Questionnaire; (2) Mid-term Benefits Questionnaire; and (3) Final Meeting Benefits Questionnaire.
- Provide all key assumptions used to estimate projected benefits, including targeted market sector (e.g., population and geographic location), projected market penetration, baseline and projected energy use and cost, operating conditions, and emission reduction calculations. Examples of information that may be requested in the questionnaires include:
  - For Product Development Projects and Project Demonstrations:
    - Published documents, including date, title, and periodical name.
    - Estimated or actual energy and cost savings, and estimated statewide energy savings once market potential has been realized. Identify all assumptions used in the estimates.
    - Greenhouse gas and criteria emissions reductions.
    - Other non-energy benefits such as reliability, public safety, lower operational cost, environmental improvement, indoor environmental quality, and societal benefits.
    - Data on potential job creation, market potential, economic development, and increased state revenue as a result of the project.
    - A discussion of project product downloads from websites, and publications in technical journals.
    - A comparison of project expectations and performance. Discuss whether the goals and objectives of the Agreement have been met and what improvements are needed, if any.
  - Additional Information for Product Development Projects:
    - Outcome of product development efforts, such copyrights and license agreements.
    - Units sold or projected to be sold in California and outside of California.
    - Total annual sales or projected annual sales (in dollars) of products developed under the Agreement.
    - Investment dollars/follow-on private funding as a result of Energy Commission funding.
    - Patent numbers and applications, along with dates and brief descriptions.
  - Additional Information for Product Demonstrations:
EXHIBIT A
Scope of Work

- Outcome of demonstrations and status of technology.
- Number of similar installations.
- Jobs created/retained as a result of the Agreement.

  - For Information/Tools and Other Research Studies:
    - Outcome of project.
    - Published documents, including date, title, and periodical name.
    - A discussion of policy development. State if the project has been cited in government policy publications or technical journals, or has been used to inform regulatory bodies.
    - The number of website downloads.
    - An estimate of how the project information has affected energy use and cost, or have resulted in other non-energy benefits.
    - An estimate of energy and non-energy benefits.
    - Data on potential job creation, market potential, economic development, and increased state revenue as a result of project.
    - A discussion of project product downloads from websites, and publications in technical journals.
    - A comparison of project expectations and performance. Discuss whether the goals and objectives of the Agreement have been met and what improvements are needed, if any.

- Respond to CAM questions regarding responses to the questionnaires.

The Energy Commission may send the Recipient similar questionnaires after the Agreement term ends. Responses to these questionnaires will be voluntary.

Products:
- Kick-off Meeting Benefits Questionnaire
- Mid-term Benefits Questionnaire
- Final Meeting Benefits Questionnaire

TASK 4 TECHNOLOGY/KNOWLEDGE TRANSFER ACTIVITIES

The goal of this task is to develop a plan to make the knowledge gained, experimental results, and lessons learned available to the public and key decision makers.

The Recipient shall:
- Prepare an Initial Fact Sheet at start of the project that describes the project. Use the format provided by the CAM.
- Prepare a Final Project Fact Sheet at the project’s conclusion that discusses results. Use the format provided by the CAM.
- Prepare a Technology/Knowledge Transfer Plan that includes:
  - An explanation of how the knowledge gained from the project will be made available to the public, including the targeted market sector and potential outreach to end users, utilities, regulatory agencies, and others.
  - A description of the intended use(s) for and users of the project results.
  - Published documents, including date, title, and periodical name.
  - Copies of documents, fact sheets, journal articles, press releases, and other documents prepared for public dissemination. These documents must include the Legal Notice required in the terms and conditions. Indicate where and when the documents were disseminated.
EXHIBIT A
Scope of Work

- A discussion of policy development. State if project has been or will be cited in government policy publications, or used to inform regulatory bodies.
- The number of website downloads or public requests for project results.
- Additional areas as determined by the CAM.

- Conduct technology transfer activities in accordance with the Technology/Knowledge Transfer Plan. These activities will be reported in the Progress Reports.
- When directed by the CAM, develop Presentation Materials for an Energy Commission-sponsored conference/workshop(s) on the project.
- When directed by the CAM, participate in annual EPIC symposium(s) sponsored by the California Energy Commission.
- Provide at least (6) six High Quality Digital Photographs (minimum resolution of 1300x500 pixels in landscape ratio) of pre and post technology installation at the project sites or related project photographs.
- Prepare a Technology/Knowledge Transfer Report on technology transfer activities conducted during the project.

Products:
- Initial Fact Sheet (draft and final)
- Final Project Fact Sheet (draft and final)
- Presentation Materials (draft and final)
- High Quality Digital Photographs
- Technology/Knowledge Transfer Plan (draft and final)
- Technology/Knowledge Transfer Report (draft and final)

TASK 5 Production Readiness Plan
The goal of this task is to determine the steps that will lead to the manufacturing of technologies developed in this project or to the commercialization of the project’s results.

The Recipient shall:
- Prepare a Production Readiness Plan. The degree of detail in the plan should be proportional to the complexity of producing or commercializing the proposed product, and to its state of development. As appropriate, the plan will discuss the following:
  - Critical production processes, equipment, facilities, personnel resources, and support systems needed to produce a commercially viable product.
  - Internal manufacturing facilities, supplier technologies, capacity constraints imposed by the design under consideration, design-critical elements, and the use of hazardous or non-recyclable materials. The product manufacturing effort may include “proof of production processes.”
  - The estimated cost of production.
  - The expected investment threshold needed to launch the commercial product.
  - An implementation plan to ramp up to full production.
  - The outcome of product development efforts, such as copyrights and license agreements.
  - Patent numbers and applications, along with dates and brief descriptions.
  - Other areas as determined by the CAM.

Products:
EXHIBIT A
Scope of Work

- Production Readiness Plan (draft and final).

V. PROJECT SCHEDULE

Please see the attached Excel spreadsheet.
RESOLUTION NO: 20-0513-8c

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: BHER MINERALS, LLC

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 EPC-19-020 with BHER Minerals, LLC for a $6,000,000 grant to design, build, and commission an integrated system that includes geothermal brine pre-treatment and lithium recovery processes and adopting staff's determination that this action is exempt from CEQA. The proposed demonstration project will deploy an innovative technology at an existing geothermal power facility in Calipatria, California to cost-effectively process at least 100 gallons of geothermal brine per minute and produce a battery-grade lithium carbonate at a production cost of approximately $4,000 per tonne; and

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

CERTIFICATION

The undersigned Secretariat to the Commission does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on May 13, 2020.

AYE:
NAY:
ABSENT:
ABSTAIN:

__________________________
Cody Goldthrite
Secretariat