**New Agreement**  **EPC-18-019**  (To be completed by CGL Office)

<table>
<thead>
<tr>
<th>Division</th>
<th>Agreement Manager:</th>
<th>MS-</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERDD</td>
<td>Adam Gottlieb</td>
<td>51</td>
<td>916-445-5294</td>
</tr>
</tbody>
</table>

**Recipient’s Legal Name**
Treau, Inc.

**Federal ID Number**
82-1607290

**Title of Project**
Treau: Low-GWP, High-Efficiency Heat Pump and Air Conditioner

**Term and Amount**

<table>
<thead>
<tr>
<th>Start Date</th>
<th>End Date</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>6/28/2019</td>
<td>3/31/2024</td>
<td>$2,805,907</td>
</tr>
</tbody>
</table>

**Business Meeting Information**
ARFVTP agreements under $75K delegated to Executive Director.

- **Proposed Business Meeting Date**: 6/12/2019
- **Consent**:  
- **Discussion**:  

**Business Meeting Presenter**
Benson Gilbert

**Time Needed**: 10 minutes

**Please select one list serve. EPIC (Electric Program Investment Charge)**

**Agenda Item Subject and Description**
TREAU, INC. Proposed resolution approving Agreement EPC-18-019 with Treau, Inc. for a $2,805,907 grant to scale-up production of a unique low-cost polymer heat exchanger, a key component in heating, ventilation, and air conditioning appliances, expected to deliver higher efficiency cooling, faster adoption of electric heat pumps, and a more cost-effective transition to low-global warming potential refrigerants, and adopting staff's determination that this action is exempt from CEQA.

**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”:**
   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:**
   - **a) Agreement IS exempt. (Attach draft NOE)**
     - Statutory Exemption. List PRC and/or CCR section number:  
     - Categorical Exemption. List CCR section number: **Cal. Code Regs., tit 14, § 15301**  
     - Common Sense Exemption. 14 CCR 15061 (b) (3)

   **Explain reason why Agreement is exempt under the above section:**
   For Cal. Code Regs. (CCR), Title 14, Section 15301: This project will involve manufacturing at existing laboratory facilities and then testing at existing buildings (e.g., commercial, institutional, or homes) a small number of prototype small-scaled HVAC systems. The tests that will be performed are temporary in nature and will require only minor alternations to existing structures. Work under this project will result in negligible or no expansion of the existing use of facilities at which manufacturing and testing will occur. This project will result in no significant impact to the environment and is exempt pursuant to CCR, 14 § 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

**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>
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<tbody>
<tr>
<td>$</td>
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</table>
List all key partners: (attach additional sheets as necessary)

Legal Company Name:

Budget Information

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<tr>
<th>Funding Source</th>
<th>Funding Year of Appropriation</th>
<th>Budget List No.</th>
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<td>301.001F</td>
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<td>R&amp;D Program Area:</td>
<td>EDMFO: EDMF</td>
<td>TOTAL:</td>
<td>$2,805,907</td>
</tr>
</tbody>
</table>

Explanation for “Other” selection

Reimbursement Contract #: Federal Agreement #:

Recipient's Administrator/ Officer

Name: Vincent Romanin
Address: 3101 20Th St
City, State, Zip: San Francisco, CA 94110-2714
Phone: 440-371-2901 / Fax: - -
E-Mail: vince@treau.cool

Recipient's Project Manager

Name: Vincent Romanin
Address: 3101 20Th St
City, State, Zip: San Francisco, CA 94110-2714
Phone: 440-371-2901 / Fax: - -
E-Mail: vince@treau.cool

Selection Process Used

- [X] Competitive Solicitation
- [ ] First Come First Served Solicitation

Solicitation #: GFO-18-302

The following items should be attached to this GRF

1. Exhibit A, Scope of Work
2. Exhibit B, Budget Detail
3. CEC 105, Questionnaire for Identifying Conflicts
4. Recipient Resolution
5. CEQA Documentation

The following items should be attached to this GRF

- [ ] Attached
- [ ] Attached
- [ ] Attached
- [ ] N/A Attached
- [ ] N/A Attached

Agreement Manager Date Office Manager Date Deputy Director Date
I. TASK ACRONYM/TERM LISTS

A. Task List

<table>
<thead>
<tr>
<th>Task #</th>
<th>CPR</th>
<th>Task Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>N/A</td>
<td>General Project Tasks</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Product Development</td>
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<tr>
<td>3</td>
<td></td>
<td>Demonstrations</td>
</tr>
<tr>
<td>4</td>
<td>X</td>
<td>Quality Assurance &amp; Control</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>Regulatory Certifications</td>
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<tr>
<td>6</td>
<td></td>
<td>Manufacturing Development</td>
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<tr>
<td>7</td>
<td></td>
<td>Evaluation of Project Benefits</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>Technology/Knowledge Transfer Activities</td>
</tr>
<tr>
<td>9</td>
<td></td>
<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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</thead>
<tbody>
<tr>
<td>AHAM</td>
<td>Association of Home Appliance Manufacturers</td>
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<tr>
<td>BOM</td>
<td>Bill of Materials</td>
</tr>
<tr>
<td>CAM</td>
<td>Commission Agreement Manager</td>
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<tr>
<td>CAO</td>
<td>Commission Agreement Officer</td>
</tr>
<tr>
<td>CPR</td>
<td>Critical Project Review</td>
</tr>
<tr>
<td>FMEA</td>
<td>Failure Mode and Effects Analysis</td>
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<tr>
<td>GWP</td>
<td>Global Warming Potential</td>
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<tr>
<td>HVAC</td>
<td>Heating, Ventilation, and Air Conditioning</td>
</tr>
<tr>
<td>MRD</td>
<td>Market Requirements Document</td>
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<tr>
<td>MRL</td>
<td>Manufacturing Readiness Level</td>
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<td>MVP</td>
<td>Minimum Viable Product</td>
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<tr>
<td>PRD</td>
<td>Product Requirements Document</td>
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<tr>
<td>TAC</td>
<td>Technical Advisory Committee</td>
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<tr>
<td>UL</td>
<td>Underwriters Laboratory</td>
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<tr>
<td>VOC</td>
<td>Voice of the Customer</td>
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</tbody>
</table>

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

A. Purpose of Agreement
The purpose of this Agreement is to fund the development of a pilot manufacturing line for a new low-cost, easy-to-install, and high efficiency Heating, Ventilation, and Air Conditioning (HVAC) appliance with low-global-warming-potential refrigerants.

B. Problem/Solution Statement

Problem
Building HVAC systems consume over 15 percent of all U.S. energy and contribute more to global warming than the entire transportation sector largely due to the high global warming potential (GWP) refrigerant leaks. A significant breakthrough in building cooling technology that uses low-GWP refrigerants, is low cost, and has high efficiency is needed.

Solution
The Recipient will develop a high efficiency, low cost, low-GWP refrigerant HVAC system with the potential to reduce building air conditioning energy consumption by up to 30% and greenhouse gas emissions by 50%.

C. Goals and Objectives of the Agreement

Agreement Goals
The goals of this Agreement are to:

- Advance the Recipient’s HVAC technology from alpha prototype to pre-production prototype; and
- Establish a pilot production manufacturing line for producing the Recipient’s HVAC technology.

Ratepayer Benefits: This Agreement will result in the ratepayer benefit of lower electricity costs by providing HVAC technology the delivers more efficient heating (70%) and cooling (33%) that translates to a California household electric bill annual savings of about $114. It will also increase the penetration of heat pumps.

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, http://docs.cpuc.ca.gov/PublishedDocs/WORD_PDF/FINAL_DECISION/167664.PDF).

3 Assumes an average California household electric bill of $1,080 of which space heating is 27% and air conditioning is 4%, a heating cost reduction of 70%, and a cooling cost reduction of 33%.
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 lowering the cost, increasing the efficiency, and reducing the emissions of building heating and cooling through the development of a vapor-compression HVAC system that incorporates a new ultra-low and high efficiency polymer heat exchanger and a low-GWP refrigerant (e.g. R290).

Agreement Objectives
The objectives of this Agreement are to:
- Develop a pre-production HVAC unit with a low-GWP refrigerant that provides 70% and 33% more efficient heat and cooling respectively.
- Validate performance and market attractiveness of HVAC units with actual customers;
- Obtain UL certification, EPA Energy Star certification, and AHAM verification for HVAC units;
- Develop a manufacturing quality control and assurance plan for producing HVAC units; and
- Establish a pilot production manufacturing line capable of producing at least 300 HVAC units per year.

III. GENERAL TASKS

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.

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.
Exhibit A
Scope of Work
Treau, Inc.

- 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:
    - 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.

  o 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);
  - 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.
- 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.
Exhibit A
Scope of Work
Treu, Inc.

• 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.
  o 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.
  o 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.
    ▪ 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.
Exhibit A
Scope of Work
Treau, Inc.

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 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
- Approval 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:
  - 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)
  - Ensure that the document is written in the third person.
  - 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.
  - 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.
  - 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. 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.

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 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.
Exhibit A
Scope of Work
Treau, Inc.

- 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 (draft and final, if required by the CAM)

TECHNICAL ADVISORY COMMITTEE
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.

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.
Exhibit A
Scope of Work
Treau, Inc.

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.
- 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.
Exhibit A
Scope of Work
Treau, Inc.

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

TASK 2: PRODUCT DEVELOPMENT
The goal of this task is to develop and refine the Recipient’s HVAC system from an alpha prototype to a pre-production prototype ready for pilot-scale manufacturing.

Subtask 2.1 Alpha Prototype
The goal of this subtask is to establish and design minimum viable product (MVP) specifications, fabricate, and test a HVAC alpha prototype for baseline performance testing and preliminary customer feedback.

The Recipient shall:
- Design an alpha prototype system and develop a basic engineering design that includes:
  - Process flow
  - Piping and instrumentation
  - Component specifications
  - System specifications
  - Product control
  - Preliminary product
  - Preliminary operating
  This design is not considered data, a product, intellectual property, or anything else under this Agreement to which the Energy Commission has any rights (e.g., access, possession, a license, etc.). This design is included in this Scope of Work to ensure the Recipient conducts this work, but the Commission does not have any rights to the design in order to ensure that third-parties, such as competitors, cannot use this Agreement to gain access to it, such as through the Public Records Act, and potentially harm Recipient’s ability to commercialize the technology described in this Agreement.
- Fabricate one (1) alpha prototype HVAC system that meets MVP specifications
- Develop a Prototype Test Plan for evaluating prototypes that includes but is not limited to:
  - Test objectives
  - Test materials and supplies
  - Test equipment
  - Test procedures
  - Result reporting format
  This report should not disclose any confidential information.
- Test the performance of the alpha prototype HVAC system based on the Prototype Test Plan.
- Prepare a Prototype Performance Baseline Report that includes a high level executive summary of the key findings regarding:
  - Heating, cooling, and dehumidification capacity
  - Energy efficiency as a function of temperature, humidity, and time
  - Refrigerant loss (emissions) rate
  This report should not disclose any confidential information.

Products:
- Prototype Test Plan
- Prototype Performance Baseline Report
Subtask 2.2 Beta-1 Prototype
The goal of this subtask is to design, fabricate, and test HVAC beta-1 prototypes incorporating design for manufacturing.

The Recipient shall:
- Conduct a design for manufacturability study for HVAC system to optimize the design for low-rate initial production.
- Submit a Design for Manufacturability Study Report that includes but is not limited to a high level executive summary of the key findings regarding:
  - Operating parameters
  - Maintenance and testability provisions
  - Materials requirements
  - Reliability requirements
  - External surface treatment
  - Design life
  - Packaging requirements
  - This report should not disclose any confidential information.
- Develop a beta-1 prototype system that incorporates the design for manufacturability
- Fabricate two (2) beta-1 prototype HVAC systems
- Test and optimize the performance of the beta-1 prototype HVAC system using Prototype Test Plan (Subtask 2.1); and
- Report test results in Beta-1 Prototype Design Performance Optimization Report that includes a high level executive summary of the key findings regarding:
  - Heating, cooling, and dehumidification capacity
  - Energy efficiency as a function of temperature, humidity, and time
  - Refrigerant loss (emissions) rate
  - This report should not disclose any confidential information.

Products:
- Design for Manufacturability Study Report
- Beta-1 Prototype Design Performance Optimization Report

Subtask 2.3 Beta-2 Prototype
The goal of this subtask is to design, fabricate, and test HVAC beta-2 prototypes incorporating preliminary customer feedback.

The Recipient shall:
- Develop an engineering design for the HVAC system that includes:
  - Bill of Materials
  - Bill of Process
  - Engineering Drawings
  - Assembly Drawings
  - Low-Level Coding
  - Part Management System
  - Process Plan
  - Materials Properties & Requirements
  - This design is not considered data, a product, intellectual property, or anything else under this Agreement to which the Energy Commission has any rights (e.g., access,
possession, a license, etc.). This design is included in this Scope of Work to ensure the Recipient conducts this work, but the Commission does not have any rights to the design in order to ensure that third-parties, such as competitors, cannot use this Agreement to gain access to it, such as through the Public Records Act, and potentially harm Recipient’s ability to commercialize the technology described in this Agreement.

- Fabricate five (5) beta-2 prototype HVAC systems
- Test and optimize the performance of the beta-2 prototype HVAC system using Prototype Test Plan (Subtask 2.1).
- Report test results in Beta-2 Prototype Design Performance Optimization Report that includes a high level executive summary of the key findings regarding:
  - Heating, cooling, and dehumidification capacity
  - Energy efficiency as a function of temperature, humidity, and time
  - Refrigerant loss (emissions) rate
This report should not disclose any confidential information.

**Products:**
- Beta-2 Prototype Design Performance Optimization Report

**Subtask 2.4 Pre-Production Prototype**
The goal of this subtask is to develop, fabricate, and test HVAC pre-production prototypes in a pilot manufacturing environment.

**The Recipient shall:**
- Develop a detailed product design for HVAC system that includes a high level executive summary of the key findings regarding:
  - Engineering Design
  - Draft Manufacturing Plan
  - Draft List of Standard Operating Procedures
This design is not considered data, a product, intellectual property, or anything else under this Agreement to which the Energy Commission has any rights (e.g., access, possession, a license, etc.). This design is included in this Scope of Work to ensure the Recipient conducts this work, but the Commission does not have any rights to the design in order to ensure that third-parties, such as competitors, cannot use this Agreement to gain access to it, such as through the Public Records Act, and potentially harm Recipient’s ability to commercialize the technology described in this Agreement.
- Produce ten (10) pre-production prototype HVAC systems
- Test performance of pre-prototype HVAC systems using Prototype Test Plan (Subtask 2.1); and
- Report test results in Product Performance Standard Report that includes a high level executive summary of the key findings regarding:
  - Heating, cooling, and dehumidification capacity
  - Energy efficiency as a function of temperature, humidity, and time
  - Refrigerant loss (emissions) rate
This report should not disclose any confidential information.

**Products:**
- Product Performance Standard Report
TASK 3: DEMONSTRATIONS
The goal of this subtask is to perform prototype demonstrations and obtain customer feedback for creating updated market and product requirements.

The Recipient shall:
- Perform a series of customer feedback activities that include:
  - Demonstration by the Recipient at the Recipient’s facility to target customers.
  - Demonstration by the Recipient at target customers.
  - Testing through customers after the product being delivered to target customers for testing.
- Use the prototype demonstration results to create, revise, and update market requirements after each demonstration that includes:
  - Business Opportunity
  - Target Market
  - Target Customer
  - Market Requirements
  - Supporting Data
- Market requirements will be translated into product requirements that includes:
  - Product Market & Customer
  - Product Environment
  - Product Requirements
- Prepare an Alpha Prototype In-House Demonstration Report that provides a high-level executive summary of demonstration, customer feedback, updated market requirements, and updated product requirements from the HVAC alpha prototype unit demonstrated by the Recipient at the Recipient’s facility to target customers. This report should not disclose any confidential information.
- Prepare a Beta-1 Prototype In-Field Demonstration Report that provides a high-level executive summary of demonstration, customer feedback, updated market requirements, and updated product requirements from the HVAC beta-1 prototype unit demonstrated by the Recipient at customer homes for target customers. This report should not disclose any confidential information.
- Prepare a Beta-2 Prototype Customer Trials Report that provides a high-level executive summary of demonstration, customer feedback, updated market requirements, and updated product requirements from the HVAC beta-2 prototype tested at customer homes by target customers. This report should not disclose any confidential information.

Products:
- Alpha Prototype In-House Demonstration Report
- Beta-1 Prototype In-Field Demonstration Report
- Beta-2 Prototype Customer Trials Report

TASK 4: QUALITY ASSURANCE & CONTROL
The goal of this subtask is to develop a quality assurance (QA) and quality control (QC) management program for the production of HVAC units.

The Recipient shall:
- Conduct a risk assessment of HVAC product design that analyzes, but is not limited to:
Exhibit A
Scope of Work
Treau, Inc.

- Overall risks
  - Assignment of severity
  - Assignment of probability
  - Prioritization of risks
  - Risk mitigation plans
- Conduct a failure modes and risks analysis of HVAC product design that includes, but is not limited to:
  - Component, subsystem, system
  - Potential failure mode and causes
  - Operational state
  - Local and system effects of failure
  - Probability / severity / detection
  - Risk level
  - Actions and mitigation
- Develop a QA/QC Plan for the manufacturing of HVAC units that includes a high-level executive summary of the test plan for quality assurance and quality control. This report should provide high level detail that includes, but is not limited to:
  - Project personnel
  - Quality assurance surveillance
  - Subcontractors and suppliers
  - Inspections and tests
  - Control of nonconformances
  - Product completion inspections
  This report should not disclose any confidential information.
- Execute the QA/QC Plan for the manufacturing of HVAC units and document results in a QA/QC Execution Report that includes, but is not limited to, best practices, standards, protocols and lessons learned from the low-rate initial production. This report should not disclose any confidential information.
- Prepare a CPR Report #1 and participate in a CPR meeting in accordance with subtask 1.3 (CPR meetings). This report should not disclose any confidential information.

Products:
- QA/QC Plan
- QA/QC Execution Report
- CPR Report #1

TASK 5: REGULATORY CERTIFICATIONS
The goal of this task is to obtain the desired regulatory certifications for selling HVAC home appliances.

The Recipient shall:
- Evaluate the regulatory requirements and desired certifications, such UL Certification, EPA Energy Star Certification, and AHAM Verification, for HVAC home appliance.
- Develop a plan for attaining required and desired regulatory certifications and prepare a regulatory design plan.
- Execute the process for attaining the necessary testing and validation documents for the standard regulatory certification.
Exhibit A
Scope of Work
Treau, Inc.

- Prepare a Regulatory Certifications Report that includes a high-level executive summary of the regulatory certifications evaluated and attained, lessons learned from the process of evaluating and attaining certifications, and the outcomes from these activities. This report should not disclose any confidential information.

Products:
- Regulatory Certifications Report

TASK 6: MANUFACTURING DEVELOPMENT
The goal of this task is to develop a pilot manufacturing line capable of producing at least 300 HVAC units per year.

Subtask 6.1 Manufacturing Engineering
The goal of this subtask is to design, develop, and install a pilot scale manufacturing line for producing HVAC home appliances.

The Recipient shall:
- Develop a Manufacturing Plan for pilot scale production of HVAC units that includes a high-level executive summary of the plan for the manufacturing process. This report may include but is not limited to:
  - Plan objectives
  - Assembly Strategy
  - Manufacturing Test Approach
  - Equipment and Facility Requirements
  - Logistics/Materials Plans
  - Personnel and related costs
  - Training Requirements
  - This report should not disclose any confidential information.
- Identify and lease space for pilot scale manufacturing.
- Renovate space for pilot manufacturing and set-up plant design and layout.
- Purchase and commission manufacturing equipment and tooling.
- Establish standard operating procedures for the detailed assembly and fabrication of HVAC home appliance units.
- Prepare a Manufacturing System Report that includes a high-level summary of the activities executed for establishing the manufacturing system. This report is to include but is not limited to:
  - Basic layout and flow of the manufacturing system
  - Activities performed to accommodate the manufacturing system
  - Operating procedures established
  - Equipment purchased and used for manufacturing
  - Results of any operation of the manufacturing system.
  - This report should not disclose any confidential information.

Products:
- Manufacturing Plan
- Manufacturing System Report
Exhibit A
Scope of Work
Treau, Inc.

Subtask 6.2  Supply Chain Management
The goal of this subtask is to develop, optimize, and manage the supply chain for a pilot scale manufacturing plant to produce HVAC home appliances.

The Recipient shall:
- Evaluate HVAC home appliance bill of materials, identify vendors and vendor alternatives, pricing contingencies, lead times, and critical parts.
- Qualify vendors for all critical components including delivery times, component quality and reliability.
- Develop a cost-reduction plan for HVAC home appliance production by evaluating opportunities in:
  - Part count reduction
  - Volume purchasing
  - Vendor alternatives.
- Prepare a Supply Chain Report that includes a high-level summary of the activities executed for establishing and managing the supply chain. This report is also to include a high-level overview of the cost-reduction plan. This report should not disclose any confidential information.

Products:
- Supply Chain Report

TASK 7: 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.
Exhibit A  
Scope of Work  
Treau, Inc.

- 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:**
- 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 8: 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.
  - 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 9: 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:
- Production Readiness Plan (draft and final)

V. PROJECT SCHEDULE

Please see the attached Excel spreadsheet.
RESOLUTION NO: 2019-0612-12g

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: TREAU, INC.

RESOLVED, that the State Energy Resources Conservation and Development Commission (Energy Commission) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the Energy Commission approves Agreement EPC-18-019 Treau, Inc. for a $2,805,907 grant to scale-up production of a unique low-cost polymer heat exchanger, a key component in heating, ventilation, and air conditioning appliances, expected to deliver higher efficiency cooling, faster adoption of electric heat pumps, and a more cost-effective transition to low-global warming potential refrigerants, and adopting staff’s determination that this action is exempt from CEQA; and

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

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 California Energy Commission held on June 12, 2019.

AYE: [List of Commissioners]
NAY: [List of Commissioners]
ABSENT: [List of Commissioners]
ABSTAIN: [List of Commissioners]

_____________________________
Cody Goldthrite,
Secretariat