

GRANTS/CONTINGENT AWARD REQUEST



To: Grants and Loans Office

Date: 3/1/2012

Project Manager: Avtar Bining

Phone Number: 916-327-1411

Office: Energy Systems Research Office

Division: Energy Research and Development

MS- 43

Project Title: Smart Grid Demonstration Project

Type of Request: (check one)

[X] New Agreement: (include items A-F from below) Agreement Number: PIR-11-009
Program: PIER E / Energy Technology Systems Integration
Solicitation Name and/or Number: PON08011.11-03 (ARRA Cost Share: Smart Grid Demonstrations)
Legal Name of Recipient: Los Angeles Department of Water & Power
Recipient's Full Mailing Address: 111 N Hope St
Los Angeles, CA 90012-2607
Recipient's Project Officer: Mukhlesur Bhuiyan Phone Number: 213-367-2532
Agreement Start Date: 6/25/2012 Agreement End Date: 5/31/2015

[] Amendment: (Check all that apply) Agreement Number: _____
[] Term Extension – New End Date: _____
[] Work Statement Revision (include Item A from below)
[] Budget Revision (include Item B from below)
[] Change of Scope (include Items A – F as applicable from below)
[] Other: _____

ITEMS TO ATTACH WITH REQUEST:

- A. Work Statement
B. Budget
C. Recipient Resolution, if applicable. (Resolution may be requested in Special Conditions if not currently available.)
D. Special Conditions, if applicable.
E. CEQA Compliance Form
F. Other Documents as applicable
• Copy of Score Sheets
• Copy of Pre-Award Correspondence
• Copy of All Other Relevant Documents

California Environmental Quality Act (CEQA)

[] CEC finds, based on recipient's documentation in compliance with CEQA:
[] Project exempt: _____ NOE filed: _____
[] Environmental Document prepared: _____ NOD filed: _____
[] Other: _____
[X] CEC has made CEQA finding described in CEC-280, attached

Funding Information:

*Source #1: PIER-E Amount: \$ 1,000,000.00 Statute: 10- FY: 11-12 Budget List #: 501.0271
*Source #2: _____ Amount: \$ _____ Statute: _____ FY: _____ Budget List #: _____
*Source #3: _____ Amount: \$ _____ Statute: _____ FY: _____ Budget List #: _____

If federally funded, specify federal agreement number: _____
* Source Examples include ERPA, PIER-E, PIER-NG, FED, GRDA, ARFVT, OTHER.

Business Meeting Approval: (refer to Business Meeting Schedule)

Proposed Business Meeting Date: 5/9/2012 [] Consent [X] Discussion
Business Meeting Participant: Avtar Bining Time Needed: 5 minutes

Agenda Notice Statement: (state purpose in layperson terms)

Possible approval of a [X] Grant / [] Contingent Award to...
Possible approval of Agreement PIR-11-009 for a grant of \$1,000,000 to the Los Angeles Department of Water & Power to facilitate the establishment of protocols and standards for a Smart Grid Demonstration Project that will allow the measurement and validation of energy savings and fossil fuel emissions reductions associated with an Electric Vehicle Program by specifying, acquiring, and installing a sufficiently-sized Electric Vehicle demonstration network. This award will be cost-share for the recipient's \$60.3 million American Recovery and Reinvestment Act of 2009 award for a total \$120.6 million project. Contact: Avtar Bining (PIER electricity funding)

**Exhibit A
WORK STATEMENT**

TECHNICAL TASK LIST

Task #	CPR	Task Name
1	N/A	ADMINISTRATION
2		PLANNING
3	X	PRELIMINARY DESIGN
4	X	FINAL DESIGN
5		PROCUREMENT
6		CONSTRUCTION
7	X	TESTING AND COMMISSIONING
8	X	MONITORING AND EVALUATION
9		CLOSING

KEY NAME LIST

Task #	Key Personnel	Key Subcontractor(s)	Key Partner(s)
1-4	Mukhlesur Bhuiyan, LADWP	N/A	USC, UCLA, JPL
5-9	Mukhlesur Bhuiyan, LADWP	N/A	N/A

GLOSSARY

Term/ Acronym	Definition
CPR	Critical Project Review
EV	Electric Vehicle
LADWP	Los Angeles Department of Water and Power
PAC	Project Advisory Committee
PIER	Public Interest Energy Research
RD&D	Research, Development and Demonstration
UCLA	University of California at Los Angeles
USC	University of Southern California
U.S. DOE	United States Department of Energy

Problem Statement:

The Los Angeles Department of Water and Power (LADWP or Recipient) and its research partners — the University of Southern California (USC), the University of California at Los Angeles (UCLA), and the National Aeronautics and Space Administration (NASA) Jet Propulsion Laboratory (JPL) — will demonstrate innovations in key areas of Smart Grid technologies. The Los Angeles Regional Demonstration

Project will use the USC and UCLA campuses and surrounding neighborhoods, city facilities, and LADWP labs as testing grounds to prove out the technologies and architectures. Behavioral studies will be carried out in parallel to identify the behavioral determinants essential for successful adoption of Smart Grid technologies and improved energy usage patterns. The project includes four interrelated demonstration projects focusing on different aspects of the Smart Grid, as follows:

1. Demand Response – perform an integrated demonstration of Smart Grid operations and technology as applied to Demand Response. Test bed sites will provide for the investigation of a full range of user infrastructure environments including residential, commercial, institutional, medical, retail, and light industrial.
2. Electric Vehicle (EV) Integration into the LADWP Grid – this will include: smart charging; battery aggregation and backfill; renewables and EV battery integration; demonstration of a fully operational microgrid; and a demonstration using car sharing programs at USC and UCLA – two distinct test-beds that include different user demographics, grid specifications, and driving patterns.
3. Customer Behavior – demonstrate a comprehensive portfolio of studies and focused surveys to determine: the impact of Smart Grid communication systems and processes on customer usage patterns; energy savings resulting from the use of Smart Grid enabled interfaces, pricing options and programs; and effective messaging strategies and incentives to educate and interest different target customer groups regarding EVs.
4. Next-Generation Cyber Security – demonstrate technologies to show: Grid Resilience (i.e., how the Smart Grid can operate resiliently against physical and cyber attack); Operational effectiveness – to demonstrate a complete cyber security testing approach for components and installed systems; and Redefinition of the security perimeter – to demonstrate new cyber security measures that address the expansion of this perimeter by Smart Grid technologies to the meter in residential and commercial sites.

Goals of the Agreement:

The goal of this Agreement is to demonstrate Smart Grid and Energy Storage technologies in the Los Angeles area that present a suite of use cases that are transferable for national implementation and replication. From these use cases, the goal is to collect and provide the optimal amount of information necessary for customers, distributors, and generators to change their behavior in a way that reduces system demands and costs, increases energy efficiency, optimally allocates and matches demand and resources to meet that demand, and increases the reliability of the grid. The anticipated social benefits of a Smart Grid and of energy storage technologies are reduced emissions, lower costs, increased reliability, and greater security and flexibility to accommodate new energy technologies (including renewable, intermittent and distributed sources).

The Agreement funding will supplement an American Recovery and Reinvestment Act of 2009 smart grid demonstration grant received by the Recipient from the U.S. Department of Energy.

Objectives of the Agreement:

The objective of this project is to support LADWP’s Smart Grid Demonstration Program, specifically the development of the Chatsworth test bed, which will be used to assist in demonstrating demand response, EVs, cyber security, and customer behavior studies.

TASK 1 ADMINISTRATION

Task 1.1 Attend Kick-off Meeting

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

The Recipient shall:

- Attend a “Kick-Off” meeting with the Commission Project Manager, the Grants Officer, and a representative of the Accounting Office. The Recipient shall bring its Project Manager, Agreement Administrator, Accounting Officer, and others designated by the Commission Project Manager to this meeting. The administrative and technical aspects of this Agreement will be discussed at the meeting. Prior to the kick-off meeting, the Commission Project Manager will provide an agenda to all potential meeting participants.

The administrative portion of the meeting shall include, but not be limited to, the following:

- Discussion of the terms and conditions of the Agreement
- Discussion of Critical Project Review (Task 1.2)
- Match fund documentation (Task 1.6)
- Permit documentation (Task 1.7)

The technical portion of the meeting shall include, but not be limited to, the following:

- The Commission Project Manager’s expectations for accomplishing tasks described in the Scope of Work
- An updated Schedule of Products
- Discussion of Progress Reports (Task 1.4)
- Discussion of Technical Products (Product Guidelines located in Section 5 of the Terms and Conditions)
- Discussion of the Final Report (Task 1.5)

The Commission Project Manager shall designate the date and location of this meeting.

Recipient Products:

- Updated Schedule of Products
- Updated List of Match Funds
- Updated List of Permits

Commission Project Manager Product:

- Kick-Off Meeting Agenda

Task 1.2 Critical Project Review (CPR) Meetings

The goal of this task is to determine if the project should continue to receive Energy Commission funding to complete this Agreement and to identify any needed modifications to the tasks, products, schedule or budget.

CPRs provide the opportunity for frank discussions between the Energy Commission and the Recipient. CPRs generally take place at key, predetermined points in the Agreement, as determined by the Commission Project Manager and as shown in the Technical Task List above. However, the Commission Project Manager may schedule additional CPRs as necessary, and any additional costs will be borne by the Recipient.

Participants include the Commission Project Manager and the Recipient and may include the Commission Grants Officer, the Public Interest Energy Research (PIER) Program Team Lead, other Energy Commission staff and Management as well as other individuals selected by the Commission Project Manager to provide support to the Energy Commission.

If United States Department of Energy (U.S. DOE) is conducting similar meetings, the Recipient shall notify and invite the Commission project manager to participate, either by teleconference or by actual meeting attendance. The U.S. DOE required meetings can be used in place of the Commission's CPR meetings, at the discretion of the Commission project manager.

The Commission Project Manager shall:

- Determine the location, date, and time of each CPR meeting with the Recipient. These meetings generally take place at the Energy Commission, but they may take place at another location.
- Send the Recipient the agenda and a list of expected participants in advance of each CPR. If applicable, the agenda shall include a discussion on both match funding and permits.
- Conduct and make a record of each CPR meeting. One of the outcomes of this meeting will be a schedule for providing the written determination described below.
- Determine whether to continue the project, and if continuing, whether or not modifications are needed to the tasks, schedule, products, and/or budget for the remainder of the Agreement. Modifications to the Agreement may require a formal amendment (please see the Terms and

Conditions). If the Commission Project Manager concludes that satisfactory progress is not being made, this conclusion will be referred to the Energy Commission's Research, Development and Demonstration (RD&D) Policy Committee for its concurrence.

- Provide the Recipient with a written determination in accordance with the schedule. The written response may include a requirement for the Recipient to revise one or more product(s) that were included in the CPR.

The Recipient shall:

- Prepare a CPR Report for each CPR that discusses the progress of the Agreement toward achieving its goals and objectives. This report shall include recommendations and conclusions regarding continued work of the projects. This report shall be submitted along with any other products identified in this scope of work. The Recipient shall submit these documents to the Commission Project Manager and any other designated reviewers at least 15 working days in advance of each CPR meeting.
- Present the required information at each CPR meeting and participate in a discussion about the Agreement.
- Recipient will provide copies of any U.S. DOE correspondence (emails, reports, letters, etc.) that relate to the project status. This includes copies of project performance reviews on Recipient work and summaries and results of project review meetings with U.S. DOE.

Commission Project Manager Products:

- Agenda and a list of expected participants
- Schedule for written determination
- Written determination

Recipient Product:

- CPR Report(s)
- U.S. DOE correspondence and reporting

Task 1.3 Final Meeting

The goal of this task is to closeout this Agreement. If U.S DOE is conducting a similar final meeting, the Recipient shall notify and invite the Commission project manager to participate, either by teleconference or by actual meeting attendance. The U.S. DOE required meeting can be used in place of the Commission's final meeting, at the discretion of the Commission project manager. However, all items listed in this task will need to be covered in the meeting.

The Recipient shall:

- Meet with Energy Commission staff to present the findings, conclusions, and recommendations. The final meeting must be completed during the closeout of this Agreement.

This meeting will be attended by, at a minimum, the Recipient, the Commission Grants Office Officer, and the Commission Project Manager. The technical and administrative aspects of Agreement closeout will be discussed at the meeting, which may be two separate meetings at the discretion of the Commission Project Manager.

The technical portion of the meeting shall present an assessment of the degree to which project and task goals and objectives were achieved, findings, conclusions, recommended next steps (if any) for the Agreement, and recommendations for improvements. The Commission Project Manager will determine the appropriate meeting participants.

The administrative portion of the meeting shall be a discussion with the Commission Project Manager and the Grants Officer about the following Agreement closeout items:

- What to do with any equipment purchased with Energy Commission funds (Options)
- Energy Commission's request for specific "generated" data (not already provided in Agreement products)
- Need to document 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 schedule for completing the closeout activities for this Agreement.
- Copies of all correspondence and reports discussing U.S. DOE's findings on the project, and future disposition of the project, if applicable. When directed by the Commission project manager, recipient will provide copies of any U.S. DOE correspondence (emails, reports, letters, etc.) that relate to project performance.

Products:

- Written documentation of meeting agreements
- Schedule for completing closeout activities
- DOE correspondence on project findings and results

Task 1.4 Quarterly Progress Reports

The goal of this task is to periodically verify that satisfactory and continued progress is made towards achieving the research objectives of this Agreement on time and within budget.

The objectives of this task are to summarize activities performed during the reporting period, to identify activities planned for the next reporting period, to identify issues that

may affect performance and expenditures, and to form the basis for determining whether invoices are consistent with work performed.

With Commission project manager approval, the Recipient can submit a U.S. DOE Progress Report in lieu of the required Commission report if contains the information listed in Attachment 1 of the Terms and Conditions.

The Recipient shall:

- Prepare Quarterly Progress Reports which summarize all Agreement activities conducted by the Recipient for the reporting period, including an assessment of the ability to complete the Agreement within the current budget and any anticipated cost overruns. Each progress report is due to the Commission Project Manager within 10 days of the end of the reporting period. The recommended specifications for each progress report are contained in the terms and conditions of this Agreement.
- Unless otherwise directed by the Commission project manager, each Progress Report must contain any reports made to U.S. DOE, including summaries of meetings with U.S. DOE, as it that relates to the project outcome and performance. Include names and contacts of U.S. DOE representatives.

Product:

- Quarterly Progress Reports
- Copies of U.S. DOE reporting and meeting summaries

Task 1.5 Final Report

The goal of the Final Report is to assess the project's success in achieving its goals and objectives, advancing science and technology, and providing energy-related and other benefits to California.

The final report shall describe the following at a minimum: a) original purpose, approach, activities performed, results and conclusions of the work done under this Agreement; b) how the project advanced science and technology to the benefit of California's ratepayers and the barriers overcome; c) assessment of the success of the project as measured by the degree to which goals and objectives were achieved; d) how the project supported California's economic recovery in the near term and number of jobs created or sustained; e) how the project results will be used by California industry, markets and others; f) projected cost reduction impact and other benefits resulting from the project; g) discuss the project budget, including the total project cost and all the funding partners and their cost share; h) discuss how the Energy Commission funding was spent on the project, including any unique products and benefits; i) observations, conclusions and recommendations for further RD&D projects and improvements to the PIER project management process.

If a final report is required by U.S. DOE, the Recipient will include a copy of it along with the Energy Commission's final report requirements. In addition, the Recipient shall submit the draft final U.S. DOE report to the Energy Commission for review at the same time it submits it to U.S. DOE.

The Final Report shall be a public document. If the Recipient has obtained confidential status from the Energy Commission and will be preparing a confidential version of the Final Report as well, the Recipient shall perform the following activities for both the public and confidential versions of the Final Report.

The Recipient shall:

- Provide a draft copy of the Final Report including a copy of the draft submitted to the U.S. DOE in response to the American Recovery and Reinvestment Act Funding Opportunity Notice for which an award was received. The Final Report must be completed on or before the end of the Agreement Term.
- Submit written correspondence from U.S. DOE regarding acceptance of the final report.

Products:

- Draft Final Report, including a copy of the draft report submitted to U.S. DOE
- Final Report, including a copy of the final report submitted to U.S. DOE
- Written correspondence from U.S. DOE regarding acceptance of final report

Task 1.6 Identify and Obtain Matching Funds

The goal of this task is to ensure that the match funds planned for this Agreement are obtained for and applied to this Agreement during the term of this Agreement.

The costs to obtain and document match fund commitments are not reimbursable through this Agreement. Although the PIER budget for this task will be zero dollars, the Recipient may utilize match funds for this task. Match funds shall be spent concurrently or in advance of PIER funds for each task during the term of this Agreement. Match funds must be identified in writing and the associated commitments obtained before the Recipient can incur any costs for which the Recipient will request reimbursement.

The Recipient shall:

- Prepare a letter documenting the match funding committed to this Agreement and submit it to the Commission Project Manager at least 2 working days prior to the kick-off meeting. The letter needs to identify the following at a minimum:
 - Amount of each cash match fund, its source, including a contact name, address and telephone number and the task(s) to which the match funds will be applied.

- Amount of each in-kind contribution, a description, documented market or book value, and its 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 shall identify its owner and provide a contact name, address and telephone number, and the address where the property is located.
- Provide a copy of the letter of commitment from an authorized representative of each source of cash match funding or in-kind contributions that these funds or contributions have been secured.
- Discuss match funds and the implications to the Agreement if they are reduced or not obtained as committed, at the kick-off meeting. If applicable, match funds will be included as a line item in the progress reports and will be a topic at CPR meetings.
- Provide the appropriate information to the Commission Project Manager if during the course of the Agreement additional match funds are received.
- Notify the Commission Project Manager within 10 days if during the course of the Agreement existing match funds are reduced. Reduction in match funds must be approved through a formal amendment to the Agreement and may trigger an additional CPR.

Products:

- A letter regarding match funds
- Copy(ies) of each match fund commitment letter(s)
- Letter(s) for new match funds (if applicable)
- Letter that match funds were reduced (if applicable)

Task 1.7 Identify and Obtain Required Permits

The goal of this task 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. Although the PIER budget for this task will be zero dollars, the Recipient shall budget match funds for any expected expenditures associated with obtaining permits. Permits must be identified in writing and obtained before the Recipient can make any expenditures for which a permit is required.

The Recipient shall:

- Prepare a letter documenting the permits required to conduct this Agreement and submit it to the Commission Project Manager at least 2 working days prior to the kick-off meeting. If there are no permits required at the start of this Agreement, then state such in the letter. If it is known at the beginning of the Agreement that permits will be required during the course of the Agreement, provide in the letter:

- A list of the permits that identifies the:
 - Type of permit
 - Name, address and telephone number of the permitting jurisdictions
 - or lead agencies
- The schedule the Recipient will follow in applying for and obtaining these permits.
- Discuss the list of permits and the schedule for obtaining them at the kick-off meeting and develop a timetable for submitting the updated list, schedule and the copies of the permits. The implications to the Agreement 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 the Progress Reports and will be a topic at CPR meetings.
- If during the course of the Agreement additional permits become necessary, provide the appropriate information on each permit and an updated schedule to the Commission Project Manager.
- As permits are obtained, send a copy of each approved permit to the Commission Project Manager.
- If during the course of the Agreement permits are not obtained on time or are denied, notify the Commission Project Manager within 5 working days. Either of these events may trigger an additional CPR.

Products:

- Letter documenting the permits or stating that no permits are required
- A copy of each approved permit (if applicable)
- Updated list of permits as they change during the term of the Agreement (if applicable)
- Updated schedule for acquiring permits as changes occur during the term of the Agreement (if applicable)

TECHNICAL TASKS

TASK 2 PLANNING

The goal of this task is to develop a working plan for a small-scale version of a smart power distribution system focused on the goals of realizing energy savings from advancing EV technology. The project will test the capabilities of smart equipment available today and in the near future. Using state-of-the-art technology in a demonstration environment will help prepare for the anticipated load that will be created by the number of EVs expected to be in Los Angeles over the next ten years.

The Recipient shall:

- Identify components of the existing Chatsworth Circuit (a local electricity distribution circuit) that will be useful for a small-scale smart distribution system demonstration, and identify needed components for procurement.

- Create a *Preliminary Timeline and Procurement List*.
- Create a *Preliminary Work Plan* for a demand response-focused system integrated with the needs of the EV demonstrations and their respective load demands.
- Create a plan for a communication network.
- Prepare budget and identify personnel. Include the budget and personnel in a *Budget and Personnel List* for approval by LADWP management.

Products:

- Preliminary Timeline (no draft)
- Procurement List (no draft)
- Preliminary Work Plan (no draft)
- Budget and Personnel List (no draft)

TASK 3 PRELIMINARY DESIGN

The goal of this task is to develop a preliminary design of a small-scale (micro) circuit that will focus on EV demand studies and demonstrations involving smart technologies available today and in the near future.

The Recipient shall:

- Conduct a thorough field investigation to ensure the appropriateness of charging locations in light of geography and land use.
- Identify Chatsworth Circuit components that are existing and will be used.
- Determine the appropriate number of chargers and charger types.
- Create layouts for the Chatsworth charger locations and Chatsworth Circuit to demonstrate full integration of the smart system.
- Create a *Design Plan* of chargers including: locations, charger installation methods, number of chargers, smart Chatsworth Circuit, and installation of smart equipment for the Chatsworth Circuit equipment lists.
- Create *Preliminary Procurement Lists* approved by LADWP management.
- Prepare a *Draft Communication Network Plan* to allow installed smart technology to have full two-way communication. The plan will be finalized in Task 4.

Products:

- Design Plan (no draft)
- Preliminary Procurement Lists (no draft)
- Draft Communication Network Plan

TASK 4 FINAL DESIGN

The goal of this task is to review and finalize drafted plans to develop the Chatsworth Circuit. The plans will be finalized with LADWP management, to ensure that the system will measure and validate energy savings with an EV program. Appropriate methods will be used to measure energy savings.

The Recipient shall:

- Review and finalize the preliminary plans created in Task 3 with management to establish major milestones and ensure project goals.
- Create a *Final Working Design of the Chatsworth Circuit* approved by management to include but not be limited to: a final timeline identifying the major milestones and goals, sub-tasks, a final budget, a resource list, personnel, and procurement needs focused on the goals of validating energy savings and creating an environment that promotes reduced fossil fuel emissions.
- Finalize the *Communication Network Plan*.

Products:

- Final Working Design of the Chatsworth Circuit (no draft)
- Communication Network Plan (Final)

TASK 5 PROCUREMENT

The goal of this task is to procure equipment identified in the design phase according to standard LADWP procurement practices.

The Recipient shall:

- Procure equipment as deemed necessary by the Final Working Design from Task 4.
- Distribute equipment to designated locations.
- Prepare a *Summary Report on Procurement and Distribution of Equipment*.

Products:

- Summary Report on Equipment Procurement and Distribution (no draft)

TASK 6 CONSTRUCTION

The goal of this task is install EV chargers and other equipment needed along the Chatsworth circuit.

The Recipient shall:

- Construct additions to the Chatsworth Circuit and other facilities identified in the design phase of the EV demonstration project.
- Install the EV chargers within the Chatsworth Circuit.
- Perform quality assurance oversight.
- Build a communication network.
- Prepare a *Summary Report on Construction of the Chatsworth Circuit and Installation of EV Chargers*.

Products:

- Summary Report on Construction of the Chatsworth Circuit and installation of EV Chargers (no draft)

TASK 7 TESTING AND COMMISSIONING

The goal of this task is to verify the functionality of installed equipment, the performance of construction, and the compliance of construction with established standards.

The Recipient shall:

- Verify that construction was performed as designed and complies with applicable standards, while simultaneously performing diagnostic testing and other commissioning activities on equipment installed to ensure its safe operation and full functionality.
- Prepare a *Summary Report on Testing and Commissioning*.

Products:

- Summary Report on Testing and Commissioning (no draft)

TASK 8 MONITORING AND EVALUATION

The goals of this task are to collect data released by smart equipment, identify the implications of data collected, and determine the best technologies used for future demand response and energy saving programs/projects.

The Recipient shall:

- Collect and evaluate data received from the demonstration project and smart equipment.
- Analyze the data and determine the best technologies for rate payers.
- Create a *Preliminary Technology Recommendation List* based on data collected.
- Prepare a *Summary Report on Monitoring and Evaluation Task*. The Report will include the Preliminary Technology Recommendation List.

Products:

- Summary Report on Monitoring and Evaluation (to include the Preliminary Technology Recommendation List) (no draft)

TASK 9 CLOSING

The goal of this task is to create a comprehensive description of the Chatsworth Circuit study performed in the form of a final document. The focus of this task will be to analyze information and determine the future of the Chatsworth Circuit with relation to demand response programs and an EV program. A successful demonstration will influence the implementation of smart technologies on other circuits.

The Recipient shall:

- Prepare a *Final Report* that documents findings from data collected and analyzed during the demonstration project, makes recommendations for the future of the Chatsworth Circuit, describes environmental benefits of the demonstrations, and determines the next steps to further realize the project goals.

Products:

- Final Report (no draft)