



BEFORE THE PUBLIC UTILITIES COMMISSION OF THE **FILED**

STATE OF CALIFORNIA

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Order Instituting Rulemaking to Consider Smart)
Grid Technologies Pursuant to Federal) Rulemaking 08-12-009
Legislation and on the Commission's own) (Filed December 18, 2008)
Motion to Actively Guide Policy in California's)
Development of a Smart Grid System.)

**UPDATE ON SOUTHERN CALIFORNIA EDISON COMPANY'S (U 338-E)
TEHACHAPI WIND ENERGY STORAGE PROJECT, AN AMERICAN RECOVERY
AND REINVESTMENT ACT (ARRA) PROJECT, AS REQUIRED BY ORDERING
PARAGRAPH 7 OF DECISION 09-09-029**

PUBLIC VERSION

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KRIS G. VYAS

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Dated: **November 30, 2011**

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STATE OF CALIFORNIA**

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PARAGRAPH 7 OF DECISION 09-09-029**

Southern California Edison Company (SCE) hereby transmits the following information in accordance with Ordering Paragraph 7 of Decision 09-09-029. This Decision imposes reporting requirements on investor-owned utilities that have received funding under Department of Energy Funding Opportunity Announcements DE-FOA-0000036 (Smart Grid Demonstrations) and DE-FOA-0000058A (Smart Grid Investment Grant Program). SCE is the prime recipient on two Smart Grid Demonstration Projects (the Irvine Smart Grid Demonstration and the Tehachapi Storage Project) and is a cost share contributor on the Waukesha Superconducting Transformer project. *SCE receives no funding under the Smart Grid Investment Program.*

This second filing covering the second and third quarters of 2011 includes progress reports and other information that SCE has provided to the Department of Energy as part of its Irvine Smart Grid Demonstration. SCE Confidential documents will be redacted from submission to the R.08-12-009 Service List, and filed with the Energy Division and the Division of Ratepayer Advocates subject to Public Utilities Code Section 583 and General Order Number 66. SCE used the DOE's determinations as to whether a report is publicly distributed or remains

DOE-internal to determine the extent to which SCE should distribute its reports. SCE is providing as Attachment 1 the Federal Assistance Reporting Checklist and Instructions, which are attached to its DOE ARRA contract, to inform the CPUC and participants in R.08-12-009 of the reporting required under contract.

Attachments:

1. Federal Assistance Reporting Checklist and Instructions/DOE Distribution of SGDP Reports;
- 1.A. DOE's Distribution of SDGP Reports;
2. Monthly Progress Reports; (Confidential – CPUC and DRA Internal Only);
3. Quarterly Financial Reports (Confidential – CPUC and DRA Internal Only);
4. Metrics and Benefits Reporting Plan (Confidential – CPUC and DRA Internal Only); and
5. American Recovery and Reinvestment Act Reporting.

Respectfully submitted,

JAMES M. LEHRER
KRIS G. VYAS

/s/ Kris G. Vyas

By: Kris G. Vyas

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November 30, 2011

ATTACHMENT 1

Federal Assistance Reporting Checklist and Instructions

ATTACHMENT 3

U.S. Department of Energy FEDERAL ASSISTANCE REPORTING CHECKLIST AND INSTRUCTIONS

1. Identification Number: DE-OE0000201	2. Program/Project Title: "Recovery Act - Tehachapi Wind Energy Storage Project"																						
3. Recipient: Southern California Edison Company																							
4. Reporting Requirements: A. MANAGEMENT REPORTING <input checked="" type="checkbox"/> Progress Report <input checked="" type="checkbox"/> Special Status Report	Frequency M A	No. of Copies Upload only 1 copy to the address in the next column at the interval specified in the previous column.	Addressees https://www.eere-pmc.energy.gov/SubmitReports.aspx https://www.eere-pmc.energy.gov/SubmitReports.aspx																				
B. SCIENTIFIC/TECHNICAL REPORTING (Reports/Products must be submitted with appropriate DOE F 241. The 241 forms are available at www.osti.gov/elink) <table style="width: 100%; border: none;"> <tr> <td style="text-align: left;">Report/Product</td> <td style="text-align: left;">Form</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> Final Scientific/Technical Report**</td> <td>DOE F 241.3</td> <td style="text-align: center;">F</td> <td style="text-align: center;">http://www.osti.gov/elink-2413</td> </tr> <tr> <td><input checked="" type="checkbox"/> Conference papers/proceedings*</td> <td>DOE F 241.3</td> <td style="text-align: center;">A</td> <td style="text-align: center;">http://www.osti.gov/elink-2413</td> </tr> <tr> <td><input type="checkbox"/> Software/Manual</td> <td>DOE F 241.4</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Other (see Special Instructions)</td> <td>DOE F 241.3</td> <td></td> <td></td> </tr> </table> * <i>Scientific and technical conferences only</i>	Report/Product	Form			<input checked="" type="checkbox"/> Final Scientific/Technical Report**	DOE F 241.3	F	http://www.osti.gov/elink-2413	<input checked="" type="checkbox"/> Conference papers/proceedings*	DOE F 241.3	A	http://www.osti.gov/elink-2413	<input type="checkbox"/> Software/Manual	DOE F 241.4			<input type="checkbox"/> Other (see Special Instructions)	DOE F 241.3					
Report/Product	Form																						
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<input type="checkbox"/> Software/Manual	DOE F 241.4																						
<input type="checkbox"/> Other (see Special Instructions)	DOE F 241.3																						
C. FINANCIAL REPORTING <input checked="" type="checkbox"/> SF-425, Federal Financial Report	Q, F		https://www.eere-pmc.energy.gov/SubmitReports.aspx																				
D. CLOSEOUT REPORTING <input checked="" type="checkbox"/> Patent Certification <input checked="" type="checkbox"/> Property Certification <input type="checkbox"/> Other (see Special Instructions)	F F		https://www.eere-pmc.energy.gov/SubmitReports.aspx																				
E. OTHER REPORTING <input checked="" type="checkbox"/> Annual Indirect Cost Proposal <input checked="" type="checkbox"/> Annual Inventory Report of Federally Owned Property, if any <input checked="" type="checkbox"/> Other - Project Management Plan** <input checked="" type="checkbox"/> Other - Interoperability and Cyber Security (I&CS) Plan** <input checked="" type="checkbox"/> Other - Metrics and Benefits Reporting Plan** <input checked="" type="checkbox"/> Other - Build Metrics Reports** <input checked="" type="checkbox"/> Other - Technology Performance Reports** <input checked="" type="checkbox"/> Other - Interoperability and Cyber Security (I&CS) Assessment Report**	A A A A A Q A A		Annual Indirect Cost Proposal: See Text All Other Reports in Section E: https://www.eere-pmc.energy.gov/SubmitReports.aspx																				
F. AMERICAN RECOVERY AND REINVESTMENT ACT REPORTING <input checked="" type="checkbox"/> Reporting and Registration Requirements	D		http://www.federalreporting.gov																				
FREQUENCY CODES AND DUE DATES: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"> A - Within 5 calendar days after events or as specified. F - Final; 90 calendar days after expiration or termination of the award. Y - Yearly; 90 days after the end of the reporting period. </td> <td style="width: 50%;"> S – Semiannually; within 30 days after end of reporting period. M – Monthly; within 15 days after end of the reporting period Q – Quarterly; within 30 days after end of the reporting period. D – Quarterly; within 10 days after end of the reporting period. </td> </tr> </table>				A - Within 5 calendar days after events or as specified. F - Final; 90 calendar days after expiration or termination of the award. Y - Yearly; 90 days after the end of the reporting period.	S – Semiannually; within 30 days after end of reporting period. M – Monthly; within 15 days after end of the reporting period Q – Quarterly; within 30 days after end of the reporting period. D – Quarterly; within 10 days after end of the reporting period.																		
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5. Special Instructions: Forms are available at https://www.eere-pmc.energy.gov/forms.aspx .																							
**Please reference the "Instructions for Preparation of Deliverables" document, Appendix 1 to the Statement of Project Objectives for this award, for specific information related to the content and submission of these reports.																							

Federal Assistance Reporting Instructions (9/09)

A. MANAGEMENT REPORTING

Progress Report

The Progress Report must provide a concise narrative assessment of the status of work and include the following information and any other information identified under Special Instructions on the Federal Assistance Reporting Checklist:

1. The DOE award number and name of the recipient.
2. The project title and name of the project director/principal investigator.
3. Date of report and period covered by the report.
4. A comparison of the actual accomplishments with the goals and objectives established for the period and reasons why the established goals were not met.
5. A discussion of what was accomplished under these goals during this reporting period, including major activities, significant results, major findings or conclusions, key outcomes or other achievements. This section should not contain any proprietary data or other information not subject to public release. If such information is important to reporting progress, do not include the information, but include a note in the report advising the reader to contact the Principal Investigator or the Project Director for further information.
6. Cost Status. Show approved budget by budget period and actual costs incurred. If cost sharing is required break out by DOE share, recipient share, and total costs.
7. Schedule Status. List milestones, anticipated completion dates and actual completion dates. If you submitted a project management plan with your application, you must use this plan to report schedule and budget variance. You may use your own project management system to provide this information.
8. Project Value Management System (PVMS) data reporting in accordance with the approved PMP. Refer to the "Instructions for Preparation of Deliverables" document, Appendix 1 to the Statement of Project Objectives for a list of the required PVMS data fields.
9. Any changes in approach or aims and reasons for change. Remember significant changes to the objectives and scope require prior approval by the contracting officer.
10. Actual or anticipated problems or delays and actions taken or planned to resolve them.

11. Any absence or changes of key personnel or changes in consortium/teaming arrangement.
12. A description of any product produced or technology transfer activities accomplished during this reporting period, such as:
 - A. Publications (list journal name, volume, issue); conference papers; or other public releases of results. Attach or send copies of public releases to the DOE Program Manager identified in Block 15 of the Assistance Agreement Cover Page.
 - B. Web site or other Internet sites that reflect the results of this project.
 - C. Networks or collaborations fostered.
 - D. Technologies/Techniques.
 - E. Inventions/Patent Applications
 - F. Other products, such as data or databases, physical collections, audio or video, software or netware, models, educational aid or curricula, instruments or equipment.

Special Status Report

The recipient must report the following events by e-mail as soon as possible after they occur:

1. Developments that have a significant favorable impact on the project.
2. Problems, delays, or adverse conditions which materially impair the recipient's ability to meet the objectives of the award or which may require DOE to respond to questions relating to such events from the public. The recipient must report any of the following incidents and include the anticipated impact and remedial action to be taken to correct or resolve the problem/condition:
 - a. Any single fatality or injuries requiring hospitalization of five or more individuals.
 - b. Any significant environmental permit violation.
 - c. Any verbal or written Notice of Violation of any Environmental, Safety, and Health statutes.
 - d. Any incident which causes a significant process or hazard control system failure.
 - e. Any event which is anticipated to cause a significant schedule slippage or cost increase.

- f. Any damage to Government-owned equipment in excess of \$50,000.
- g. Any other incident that has the potential for high visibility in the media.

B. SCIENTIFIC/TECHNICAL REPORTS

Final Scientific/Technical Report

Content. The final scientific/technical report must include the following information and any other information identified under Special Instructions on the Federal Assistance Reporting Checklist:

1. Identify the DOE award number; name of recipient; project title; name of project director/principal investigator; and consortium/teaming members.
2. Display prominently on the cover of the report any authorized distribution limitation notices, such as patentable material or protected data. Reports delivered without such notices may be deemed to have been furnished with unlimited rights, and the Government assumes no liability for the disclosure, use or reproduction of such reports.
3. Provide an executive summary, which includes a discussion of 1) how the research adds to the understanding of the area investigated; 2) the technical effectiveness and economic feasibility of the methods or techniques investigated or demonstrated; or 3) how the project is otherwise of benefit to the public. The discussion should be a minimum of one paragraph and written in terms understandable by an educated layman.
4. Provide a comparison of the actual accomplishments with the goals and objectives of the project.
5. Summarize project activities for the entire period of funding, including original hypotheses, approaches used, problems encountered and departure from planned methodology, and an assessment of their impact on the project results. Include, if applicable, facts, figures, analyses, and assumptions used during the life of the project to support the conclusions.
6. Identify products developed under the award and technology transfer activities, such as:
 - a. Publications (list journal name, volume, issue), conference papers, or other public releases of results. If not provided previously, attach or send copies of any public releases to the DOE Program Manager identified in Block 15 of the Assistance Agreement Cover Page;
 - b. Web site or other Internet sites that reflect the results of this project;
 - c. Networks or collaborations fostered;

- d. Technologies/Techniques;
 - e. Inventions/Patent Applications, licensing agreements; and
 - f. Other products, such as data or databases, physical collections, audio or video, software or netware, models, educational aid or curricula, instruments or equipment.
7. For projects involving computer modeling, provide the following information with the final report:
- a. Model description, key assumptions, version, source and intended use;
 - b. Performance criteria for the model related to the intended use;
 - c. Test results to demonstrate the model performance criteria were met (e.g., code verification/validation, sensitivity analyses, history matching with lab or field data, as appropriate);
 - d. Theory behind the model, expressed in non-mathematical terms;
 - e. Mathematics to be used, including formulas and calculation methods;
 - f. Whether or not the theory and mathematical algorithms were peer reviewed, and, if so, include a summary of theoretical strengths and weaknesses;
 - g. Hardware requirements; and
 - h. Documentation (e.g., users guide, model code).

Electronic Submission. The final scientific/technical report must be submitted electronically-via the DOE Energy Link System (E-Link) accessed at <http://www.osti.gov/mlink-2413>.

Electronic Format. Reports must be submitted in the ADOBE PORTABLE DOCUMENT FORMAT (PDF) and be one integrated PDF file that contains all text, tables, diagrams, photographs, schematic, graphs, and charts. Materials, such as prints, videos, and books, that are essential to the report but cannot be submitted electronically, should be sent to the Contracting Officer at the address listed in Block 16 of the Assistance Agreement Cover Page.

Submittal Form. The report must be accompanied by a completed electronic version of DOE Form 241.3, "U.S. Department of Energy (DOE), Announcement of Scientific and Technical Information (STI)." You can complete, upload, and submit the DOE F.241.3 online via E-Link. You are encouraged not to submit patentable material or protected data in these reports, but if there is such material or data in the report, you must: (1) clearly identify patentable or protected data on each page of the report; (2) identify such material on the cover of the report; and (3) mark the appropriate block in Section K of the DOE F 241.3. Reports must not contain any limited rights data (proprietary data),

classified information, information subject to export control classification, or other information not subject to release. Protected data is specific technical data, first produced in the performance of the award that is protected from public release for a period of time by the terms of the award agreement.

Conference Papers/Proceedings

Content: The recipient must submit a copy of any conference papers/proceedings, with the following information: (1) Name of conference; (2) Location of conference; (3) Date of conference; and (4) Conference sponsor.

Electronic Submission. Scientific/technical conference paper/proceedings must be submitted electronically-via the DOE Energy Link System (E-Link) at <http://www.osti.gov/elink-2413>. Non-scientific/technical conference papers/proceedings must be sent to the URL listed on the Reporting Checklist.

Electronic Format. Conference papers/proceedings must be submitted in the ADOBE PORTABLE DOCUMENT FORMAT (PDF) and be one integrated PDF file that contains all text, tables, diagrams, photographs, schematic, graphs, and charts. If the proceedings cannot be submitted electronically, they should be sent to the DOE Administrator at the address listed in Block 16 of the Assistance Agreement Cover Page.

Submittal Form. Scientific/technical conference papers/proceedings must be accompanied by a completed DOE Form 241.3. The form and instructions are available on E-Link at <http://www.osti.gov/elink-2413>. This form is not required for non-scientific or non-technical conference papers or proceedings.

Protected Personally Identifiable Information (PII). Management Reports or Scientific/Technical Reports must not contain any *Protected* PII. PII is any information about an individual which can be used to distinguish or trace an individual's identity. Some information that is considered to be PII is available in public sources such as telephone books, public websites, university listings, etc. This type of information is considered to be Public PII and includes, for example, first and last name, address, work telephone number, e-mail address, home telephone number, and general educational credentials. In contrast, *Protected* PII is defined as an individual's first name or first initial and last name in combination with any one or more of types of information, including, but not limited to, social security number, passport number, credit card numbers, clearances, bank numbers, biometrics, date and place of birth, mother's maiden name, criminal, medical and financial records, educational transcripts, etc.

C. FINANCIAL REPORTING

Recipients must complete the SF-425 as identified on the Reporting Checklist in accordance with the report instructions. A fillable version of the form is available at http://www.whitehouse.gov/omb/grants/grants_forms.aspx.

D. CLOSEOUT REPORTS

Final Invention and Patent Report

The recipient must provide a DOE Form 2050.11, "PATENT CERTIFICATION."
This form is available at
http://management.energy.gov/business_doe/business_forms.htm

Property Certification

The recipient must provide the Property Certification, including the required inventories of non-exempt property, located at
<http://www.management.energy.gov/documents/PropertyCertFINAL.doc>

E. OTHER REPORTING

Annual Indirect Cost Proposal and Reconciliation

Requirement. In accordance with the applicable cost principles, the recipient must submit an annual indirect cost proposal, reconciled to its financial statements, within six months after the close of the fiscal year, unless the award is based on a predetermined or fixed indirect rate(s), or a fixed amount for indirect or facilities and administration (F&A) costs.

Cognizant Agency. The recipient must submit its annual indirect cost proposal directly to the cognizant agency for negotiating and approving indirect costs. If the DOE awarding office is the cognizant agency, submit the annual indirect cost proposal to the URL listed on the Reporting Checklist.

Annual Inventory of Federally Owned Property

Requirement. If at any time during the award the recipient is provided Government-furnished property or acquires property with project funds and the award specifies that the property vests in the Federal Government (i.e. federally owned property), the recipient must submit an annual inventory of this property to the URL listed on the Reporting Checklist no later than October 30th of each calendar year, to cover an annual reporting period ending on the preceding September 30th.

Content of Inventory. The inventory must include a description of the property, tag number, acquisition date, location of property, and acquisition cost, if purchased with project funds. The report must list all federally owned property, including property located at subcontractor's facilities or other locations.

Project Management Plan (PMP)

The recipient shall update the PMP that was submitted with their application. The update shall include in changes in approach to executing, monitoring, and controlling the project that have occurred since that time, as well as addressing any DOE comments that were provided as feedback to the initial version of the plan. The first update to the plan is due 30 days after award of the definitized agreement. The plan shall also be updated with any major/significant project

revisions.

Interoperability and Cyber Security (I&CS) Plan

The Recipient shall develop a comprehensive Interoperability and Cyber Security Plan (I&CS Plan) for approval by DOE. The I&CS Plan shall fully describe how the Recipient will address interoperability and cyber security in every phase of the engineering lifecycle of the project, including design, procurement, construction, installation, commissioning, and operation, as well as the ability to provide ongoing maintenance and support. The plan is due 30 days after award of the definitized agreement. The plan shall also be updated with any major/significant project revisions.

Metrics and Benefit Reporting Plan

The Recipient shall submit Metrics and Benefit Reporting Plan that details how project-specific metrics and benefits will be identified, collected, and reported in order to assess smart grid technologies demonstrated by the SGDP program. Metrics are divided into two main categories: build metrics and impact metrics. Build metrics refer to the monetary investments, electricity infrastructure assets, policies and programs, marketplace innovation and jobs that are part of smart grid projects. Impact metrics refer to smart grid capabilities enabled by projects and the measurable impacts of smart grid projects that deliver value, and are reported in Technology Performance Reports (see discussion below). The Recipient is encouraged to work collaboratively with DOE to seek guidance and clarification regarding questions in completing the Metrics and Benefits Reporting Plan. The plan is due 90 days after award of the definitized agreement. The plan shall also be updated with any major/significant project revisions.

Build Metrics Reporting

In accordance with the approved Metrics and Benefits Reporting Plan which recipients prepare and submit in Phase 1 of the project, the recipient shall report build metrics data on a **quarterly** basis. Submissions shall begin the calendar quarter after approval of the Metrics and Reporting Plan. *Build metrics* refer to the monetary investments, electricity infrastructure assets, policies and programs, marketplace innovation and jobs data that are part of smart grid projects.

Technology Performance Reports

In accordance with the approved Metrics and Benefits Reporting Plan which recipients prepare and submit in Phase 1 of the project, the recipient shall submit interim and final *Technology Performance Reports* (TPR) to DOE for review and approval. The frequency of the interim reports will be as specified in the DOE-approved *Metrics and Benefits Reporting Plan*. The frequency should be tailored to the specifics of each project. The Recipient shall also provide the data sets identified in the approved reporting plan in conjunction with their report submission. The TPRs shall include the status of impact metrics and cost-benefit data and analyses with respect to the pre-demonstration (baseline) system

configuration and the demonstrated system configuration, as applicable. *Impact metrics* refer to smart grid capabilities enabled by projects and the measurable impacts of smart grid projects that deliver technical and economic value.

Interoperability and Cyber Security (I&CS) Assessment Report

The Recipient shall submit an Interoperability and Cyber Security (I&CS) Assessment Report which shall document and summarize all of I&CS-related work performed during the award period and the associated results in a comprehensive manner. This report shall not merely be a compilation of information contained in previously submitted plans and periodic reports, but shall present that information in an integrated, stand-alone fashion. It must address all activities and topics that were discussed in the latest I&CS Plan. The I&CS Assessment Report is due 60 days prior to project expiration.

F. AMERICAN RECOVERY AND REINVESTMENT ACT REPORTING

See Special Award Term entitled Reporting and Registration Requirements under Section 1512 of the Recovery Act. The reports are due no later than ten calendar days after each calendar quarter in which the recipient receives the assistance award funded in whole or in part by the Recovery Act. Additional information on complying with this requirement can be found at:

[Department of Energy - OMB Reporting Help
\(http://www.energy.gov/recovery/ARRA_Reporting_Requirements.htm\)](http://www.energy.gov/recovery/ARRA_Reporting_Requirements.htm)

ATTACHMENT 1A

DOE's Distribution of SGDP Reports

DOE's Distribution of SGDP Reports

Report	Public Distribution	DOE Internal Distribution	Comments
Monthly Progress Report		X	Status information (milestone status, accomplishments, EV, etc) may be extracted and presented via briefings/fact sheets external to DOE
Special Status report		X	
Final Scientific/Technical Report	X		Publically Available via OSTI
Conference Papers/Proceedings	X		Publically Available via OSTI
SF-425 Federal Financial Report		X	
Patent Certification		X	
Property Certification		X	
Annual Indirect Cost Proposal		X	
Annual Inventory Report of Federal Owned Property, if any		X	
Other – Project Management Plan		X	Information (milestone, participants, success criteria, etc) may be extracted and presented via briefings/fact sheets external to DOE
Other – Interoperability and Cyber Security (I&CS) Plan		X	
Other – Metrics and Benefits Reporting Plan		X	
Other – Build Metrics Reports	X		Information will be posted on Public Site - SmartGrid.gov
Other – Technology Performance Reports	X		Information will be posted on Public Site - SmartGrid.gov (Included Impact metrics will be posted in aggregated form)
Other – Interoperability and Cyber Security (I&CS) Assessment Report		X	
ARRA Reporting (federalreporting.gov)	X		Information will be posted on Public Site - Recovery.gov

Note: All information that is not “Limited Rights Data” or “Protected Data” is subject to FOIA requests. All “Limited Rights Data” or “Protected Data” should be marked accordingly in all reports and deliverables.

ATTACHMENT 2

Monthly Progress Report (Confidential – CPUC and DRA Internal Only)

Confidential-110515 SCE TSP DOE Progress Report

Confidential-110615 SCE TSP DOE Monthly Progress Report

Confidential-110715 SCE TSP DOE Monthly Progress Report

Confidential-110815 SCE TSP Monthly Progress Report

Confidential-110915 TSP Monthly Progress Report

Confidential-111015 SCE TSP September Monthly Progress Report

ATTACHMENT 3

SF-425 Financial Reports (Confidential – CPUC and DRA Internal Only)

Confidential-110630 TSP SF-425

Confidential-SF-425 DE-OE0000201 2011 October 28

ATTACHMENT 4

Metrics and Benefits Reporting Plan (Confidential – CPUC and DRA Internal Only)

Confidential-110401 SCE TSP MBRP

ATTACHMENT 5

ARRA Reporting

TSP ARRA Reporting Form Q2 2011

Recipient Report: Grant or Loan	Version: 1.8
Prime Recipient	

Reporting Information		
Award Type*	Award Number*	Final Report*
Grant	DE-OE0000201	N

Award Recipient Information		
Recipient DUNS Number*	Recipient Account Number	Recipient Congressional District*
006908818		32

Award Information		
Funding Agency Code*	Awarding Agency Code*	Award Date*
8900	8900	02/08/2010
Amount of Award*	CFDA Number*	
\$24,978,264.00	81.122	
Program Source (TAS)*	Sub Account Number for Program Source (TAS)	
89-0328		
Total Number of Sub Awards to Individuals*	Total Amount of Sub Awards to Individuals*	
0.00	\$0.00	
Total Number of Payments to Vendors less than \$25,000/award*	Total Amount of Payments to Vendors less than \$25,000/award*	
6.00	\$28,677.39	
Total Number of Sub Awards less than \$25,000/award*	Total Amount of Sub Awards less than \$25,000/award*	
0.00	\$0.00	

Award Description*

The Tehachapi Wind Energy Storage Project (TSP) is led by SCE. A123 Systems and the California Independent System Operator (CAISO) are project participants. SCE, a subsidiary of Edison International (EIX), is an investor owned utility operating in the State of California, covering over 50,000 square miles and serving over 13 million people with an energy portfolio that includes 12.6 billion kWh of renewable energy. SCE has over twenty years experience in large scale wind generation integration and in the development and testing of battery technologies for grid applications. As such, SCE brings to the project comprehensive experience in all relevant technological and operational areas. The objective of the project is to evaluate utility scale lithium-ion battery technology in improving grid performance and integrating wind generation. By executing the project, SCE will evaluate a wider range of applications for lithium-ion batteries that may spur broader demand for the technology, potentially bringing production to a scale that could make this form of large energy storage more affordable. Cost-effective energy storage will allow for a smarter grid, facilitate integration of intermittent renewable resources, and encourage job growth in the

Number of characters entered: 3735

Need Help Finding Award Information?	
Browse the Full Listings by using the drop-down lists.	
Agency Drop-Down List:	8900 - Department of Energy
Program Source (TAS) Drop-Down List:	89-0328 Department of Energy-Office of Emergency Operations-Electricity Delivery and Energy Reliability, Recovery
Know the code and want to check the name? Search by Code	
Enter Agency Code:	1201
Agency Name:	Office of the Secretary of Agriculture
Enter Program Source (TAS) Code:	97-xxxx
Program Source (TAS) Name:	Department of Defense- Temporary Program Source Code
Know the name and want to find the code? Search by Name	
Enter Agency Name:	Department of Agriculture
Agency Code:	1200
Enter Program Source (TAS) Name:	USDA-Office of the Secretary of Agriculture- Agriculture Buildings and Facilities and Rental Payments
Program Source (TAS) Code:	12-0111

Project Information

Project Name or Project/Program Title*		Project Status*	Total Federal Amount ARRA Funds Received/Invoiced*
Tehachapi Wind Energy Storage Project		Less than 50% completed	\$758,710.00
Number of Jobs*		Description of Jobs Created*	
15.67		Jobs were created to provide Project Management Support for the energy storage system and engineering support related to siting, construction, and substation and grid preparation. Number of characters entered: 179	
Quarterly Activities/Project Description*			
04/01/2011 – SCE resubmitted MBRP incorporating DOE-DAT feedback; 04/04/2011 – SCE completed the Test Plan Outline and began developing the detailed Test Procedures; 04/10/2011 - SCE submitted to DOE the Q1 ARRA Report; 04/15/2011 – SCE submitted to DOE-NETL the March 2011 Monthly Progress Report; 04/29/2011 – SCE discussed with CAISO the Interconnection Request in anticipation of a Scoping Meeting in May; 04/29/2011 – SCE discussed with the DOE Project Manager the project status and established bi-weekly calls beginning 5/27/2011; 05/04-06/2011 - SCE team visited A123 facilities in MI and MA; Number of characters entered: 1826			
Activity Code (NAICS or NTEE-NPC)*			
1	2		
221121			
3	4		
5	6		
7	8		
9	10		
Total Federal Amount of ARRA Expenditure*		Total Federal ARRA Infrastructure Expenditure	Infrastructure Contact Name
\$2,193,329.41		\$0.00	
Infrastructure Contact Email	Infrastructure Contact Phone	Infrastructure Contact Phone Ext	
Infrastructure Contact Street Address 1	Infrastructure Contact Street Address 2	Infrastructure Contact Street Address 3	
Infrastructure City	Infrastructure State	Infrastructure ZIP Code+4	
Infrastructure Purpose and Rationale			

Need Help Finding an Activity, State, or Country Code?	
Browse the Full Listing by using the drop-down list.	
Activity Code Drop-Down List:	221121 - Electric Bulk Power Transmission and Control
State Drop-Down List:	AK - Alaska
Country Drop-Down List:	US - United States
Know the code and want to check the name? Search by Code	
Enter Activity Code:	111110
Activity Name:	Soybean Farming
Enter State Code:	CA
State Name:	California
Enter Country Code:	US
Country Name:	United States
Know the name and want to find the code? Search by Name	
Enter Activity Name:	Other Vegetable (except Potato) and Melon Farming
Activity Code:	111219
Enter State Name:	California

Number of characters entered: 0

State Code:	CA
Enter Country Name:	United States
Country Code:	US

<i>Primary Place of Performance</i>		
Street Address 1	Street Address 2	City*
Monolith Substation	14028 Tehachapi Blvd.	Tehachapi
State*	ZIP Code+4*	Congressional District*
CA	935611312	22
Country*		
US		

<i>Recipient Highly Compensated Officers</i>			
Prime Recipient Indication of Reporting Applicability*	#	Officer Name	Officer Compensation
No	1		
	2		
	3		
	4		
	5		

111006 SCE TSP ARRA Reporting form Q3 2011

Recipient Report: Grant or Loan	Version: 1.8
Prime Recipient	

Reporting Information		
Award Type*	Award Number*	Final Report*
Grant	DE-OE0000201	N

Award Recipient Information		
Recipient DUNS Number*	Recipient Account Number	Recipient Congressional District*
006908818		32

Award Information		
Funding Agency Code*	Awarding Agency Code*	Award Date*
8900	8900	02/08/2010
Amount of Award*	CFDA Number*	
\$24,978,264.00	81.122	
Program Source (TAS)*	Sub Account Number for Program Source (TAS)	
89-0328		
Total Number of Sub Awards to Individuals*	Total Amount of Sub Awards to Individuals*	
0.00	\$0.00	
Total Number of Payments to Vendors less than \$25,000/award*	Total Amount of Payments to Vendors less than \$25,000/award*	
12.00	\$72,983.14	
Total Number of Sub Awards less than \$25,000/award*	Total Amount of Sub Awards less than \$25,000/award*	
0.00	\$0.00	
Award Description*		

Need Help Finding Award Information?	
Browse the Full Listings by using the drop-down lists.	
Agency Drop-Down List:	8900 - Department of Energy
Program Source (TAS) Drop-Down List:	89-0328 Department of Energy-Office of Emergency Operations-Electricity Delivery and Energy Reliability, Recovery
Know the code and want to check the name? Search by Code	
Enter Agency Code:	1201
Agency Name:	Office of the Secretary of Agriculture
Enter Program Source (TAS) Code:	97-xxxx
Program Source (TAS) Name:	Department of Defense- Temporary Program Source Code
Know the name and want to find the code? Search by Name	
Enter Agency Name:	Department of Agriculture
Agency Code:	1200
Enter Program Source (TAS) Name:	USDA-Office of the Secretary of Agriculture-Agriculture Buildings and Facilities and Rental Payments
Program Source (TAS) Code:	12-0111

The Tehachapi Wind Energy Storage Project (TSP) is led by SCE. A123 Systems and the California Independent System Operator (CAISO) are project participants. SCE, a subsidiary of Edison International (EIX), is an investor owned utility operating in the State of California, covering over 50,000 square miles and serving over 13 million people with an energy portfolio that includes 12.6 billion kWh of renewable energy. SCE has over twenty years experience in large scale wind generation integration and in the development and testing of battery technologies for grid applications. As such, SCE brings to the project comprehensive experience in all relevant technological and operational areas. The objective of the project is to evaluate utility scale lithium-ion battery technology in improving grid performance and integrating wind generation. By executing the project, SCE will evaluate a wider range of applications for lithium-ion batteries that may spur broader demand for the technology, potentially bringing production to a scale that could make this form of large energy storage more affordable. Cost-effective energy storage will allow for a smarter grid, facilitate integration of intermittent renewable resources, and encourage job growth in the

Number of characters entered: 3735

Project Information		
Project Name or Project/Program Title*	Project Status*	Total Federal Amount ARRA Funds Received/Invoiced*
Tehachapi Wind Energy Storage Project	Less than 50% completed	\$2,558,658.00
Number of Jobs*	Description of Jobs Created*	
14.77	Jobs were created to provide Project Management Support for the energy storage system and engineering support related to siting, construction, and substation and grid preparation.	
Number of characters entered: 179		
Quarterly Activities/Project Description*		
07/13-14/2011 - SCE-A123-Quanta team met to review and agree upon the BESS specifications required to complete the design of the system; 07/14/2011 – SCE discussed with the DOE Project Manager the project status in the bi-weekly call; 07/15/2011 – SCE submitted to DOE-NETL the June 2011 Monthly Progress Report; 07/28/2011 – SCE discussed with the DOE Project Manager the project status in the bi-weekly call; 08/05/2011 - SCE Substation Engineering conducted a design review of the battery system facility, with input from the broader TSP team including A123; 08/11/2011 - SCE and CAISO held a clarifying discussion regarding the pending Interconnection Request; 08/11/2011 – SCE discussed with the DOE Project Manager the project status in the bi-weekly call.		
Number of characters entered: 1986		
Activity Code (NAICS or NTEE-NPC)*		
1	2	
221121		
3	4	

Need Help Finding an Activity, State, or Country Code?	
Browse the Full Listing by using the drop-down list.	
Activity Code Drop-Down List:	221121 - Electric Bulk Power Transmission and Control
State Drop-Down List:	AK - Alaska

5	6	
7	8	
9	10	
Total Federal Amount of ARRA Expenditure*	Total Federal ARRA Infrastructure Expenditure	Infrastructure Contact Name
\$3,081,939.45	\$0.00	
Infrastructure Contact Email	Infrastructure Contact Phone	Infrastructure Contact Phone Ext
Infrastructure Contact Street Address 1	Infrastructure Contact Street Address 2	Infrastructure Contact Street Address 3
Infrastructure City	Infrastructure State	Infrastructure ZIP Code+4
Infrastructure Purpose and Rationale		
Number of characters entered: 0		

Primary Place of Performance		
Street Address 1	Street Address 2	City*
Monolith Substation	14028 Tehachapi Blvd.	Tehachapi
State*	ZIP Code+4*	Congressional District*
CA	935611312	22
Country*		
US		

Country Drop-Down List:	US - United States
Know the code and want to check the name? Search by Code	
Enter Activity Code:	111110
Activity Name:	Soybean Farming
Enter State Code:	CA
State Name:	California
Enter Country Code:	US
Country Name:	United States
Know the name and want to find the code? Search by Name	
Enter Activity Name:	Other Vegetable (except Potato) and Melon Farming
Activity Code:	111219
Enter State Name:	California
State Code:	CA
Enter Country Name:	United States
Country Code:	US

Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability*	#	Officer Name	Officer Compensation
No	1		
	2		
	3		
	4		
	5		