



BEFORE THE PUBLIC UTILITIES COMMISSION OF THE  
STATE OF CALIFORNIA

**FILED**

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Order Instituting Rulemaking to Consider Smart  
Grid Technologies Pursuant to Federal  
Legislation and on the Commission's Own  
Motion to Actively Guide Policy in California's  
Development of a Smart Grid System

R.08-12-009  
(Filed December 18, 2008)

**SOUTHERN CALIFORNIA EDISON COMPANY'S (U 338-E) NOTICE PURSUANT TO  
ORDERING PARAGRAPH 1 AND SECTION 3.2 OF D. 09-09-029**

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Dated: **October 9, 2009**

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STATE OF CALIFORNIA**

Order Instituting Rulemaking to Consider Smart  
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Legislation and on the Commission's Own  
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**SOUTHERN CALIFORNIA EDISON COMPANY'S (U 338-E) NOTICE PURSUANT TO  
ORDERING PARAGRAPH 1 AND SECTION 3.2 OF D. 09-09-029**

Pursuant to Ordering Paragraph 1 and Section 3.2 of D. 09-09-029, Southern California Edison Company (SCE) respectfully provides notice to the Commission's Energy Division and to the service list in the proceeding of two applications that SCE has filed with the U.S. Department of Energy (DOE). The two applications seek federal stimulus funds earmarked for Smart Grid projects.

The first proposed project is called the Irvine Smart Grid Demonstration Project (IGSD). SCE submitted its proposal in response to the DOE's Funding Opportunity Number *DE-FOA-0000036, CFDA Number 81.122, Electricity Delivery and Energy Reliability Research, Development and Analysis, Program Area of Interest 1: Regional Demonstrations*. A summary of the IGSD project is attached to this notice. A copy of the entire IGSD application can be accessed electronically at the following website:

[http://www.sce.com/NR/rdonlyres/80068CA5-4EBC-461F-90E8-646047D1238F/0/0910\\_ISGD.pdf](http://www.sce.com/NR/rdonlyres/80068CA5-4EBC-461F-90E8-646047D1238F/0/0910_ISGD.pdf)

The second proposed project is called the Tehachapi Wind Energy Storage Project (TSP). SCE submitted its proposal in response to the DOE's Funding Opportunity Number *DE-FOA-0000036*, *CFDA Number: 81.122, Electricity Delivery and Energy Reliability Research, Development and Analysis*. A summary of the TSP project is attached to this notice. A copy of the entire TSP application can be accessed electronically at the following website:

[http://www.sce.com/NR/rdonlyres/166D6004-F44A-4B75-B09F-E4927A42BC30/0/0910\\_TSP.pdf](http://www.sce.com/NR/rdonlyres/166D6004-F44A-4B75-B09F-E4927A42BC30/0/0910_TSP.pdf).

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October 9, 2009

**ATTACHMENT 1**

**Applicant:** *Southern California Edison Company*  
**Principal Investigator:** *Michael Montoya*  
**Project Name:** *Irvine Smart Grid Demonstration (ISGD)*  
**Federal Funding Request:** *DOE ARRA Stimulus Funds \$40.1M*  
**State Funding:** *CEC PIER Funds \$1.0M*

Southern California Edison Company (SCE) is proposing to conduct an end-to-end demonstration of a grouping of advanced Smart Grid technologies in response to the U.S. Department of Energy's (DOE) Funding Opportunity Announcement DE-FOA-0000036. SCE believes this demonstration will be needed to meet state and federal policy goals for the year 2020. This proposed demonstration will take place on a section of SCE's grid from transmission through distribution to customer premise devices. Thus, the project will literally provide a living laboratory for accurately assessing the interoperability of, and interaction between, all of these various Smart Grid technologies and systems working at the same time.

The ISGD will be deployed in the City of Irvine, an ideal demonstration site typical of most heavily populated areas of Southern California in climate, topography, environmental concerns and public policy issues. This demonstration is "shovel ready" in that it will utilize existing distribution facilities and all required state matching has already been approved in previous SCE proceedings for General Rate Case, Energy Efficiency, Demand Response and Edison SmartConnect™.

### **Project Objectives**

First, the ISGD project will allow SCE, its partners and the DOE to verify the viability of Smart Grid energy technologies and cyber security when deployed in an integrated framework. Second, it will provide a means to quantify the costs and benefits of Smart Grid technologies in terms of overall energy consumption, operational efficiencies, and societal/environmental benefits. Finally, the ISGD project will allow SCE, its partners and the DOE to test and validate the scalability of the several Smart Grid elements tested into other regions of the country.

### **Project Description and Participants**

SCE's ISGD project is a comprehensive demonstration starting with CAISO operator deep distribution situational awareness using phasor measurement and then extends beyond the substation to evaluate the latest generation of distribution automation including universal remote circuit interrupters (URCI), looped 12 kV distribution circuit topology, and advanced voltage control sensing and self-healing technologies. This ISGD scope continues into the home, by demonstrating the integration, monitoring, control and efficacy of the home area network (HAN) and consumer devices such as smart appliances, electric vehicles, energy storage and photovoltaic solar generation. Tying all this together is the Secure Energy Network (SENet) which will enable end-to-end interoperability and cyber-security, both of which are essential to Smart Grid development and adoption across the region.

SCE's project team is a combination of industry leaders each providing essential expertise. The team includes: Boeing, General Electric, SunPower Corporation, Electric Power Research Institute (EPRI), ITRON, University of Southern California Information Sciences Institute, California State Polytechnic University Pomona, and University of California Irvine.

### **Expected Results**

This project will demonstrate a scalable model of a Smart Grid System that can be used to validate the interoperability of emerging NIST and NERC standards for future Smart Grid systems and applications, including standards for implementation, integration, communications, cyber-security and interoperability. This project will also produce measured results on all benefits as outlined by the DOE in Appendix A of the FOA, and will help provide a blueprint to build the Smart Grid workforce of the future.

**Jobs Creation**

At SCE, we directly employ around 16,000 people, many of them union-represented. 51% are minority or female employees, reflecting the diversity of the customers we serve. We estimate that about 20,000 well-paid jobs will be created by SCE for many years to build the massive transmission facilities needed to transport renewable power throughout the western grid. Our energy efficiency programs create over 1,100 jobs, many of them in the low-income communities that we serve. SCE's ISGD demonstrates many of the elements cited in the Smart Grid Jobs Report that KEMA estimates will create 320,000 direct U.S. jobs over the next ten years from the deployment of Smart Grid.

**ATTACHMENT 2**

**Applicant:** *Southern California Edison Company*  
**Principal Investigator:** *Ed Kjaer*  
**Project Name:** *The Tehachapi Wind Energy Storage Project*  
**Federal Funding Request:** *DOE ARRA Stimulus Funds \$25.0M*  
**State Funding:** *CPUC Advice Letter Filing \$22.0M*  
*CEC PIER Funds \$1.0M*

This proposal is submitted in response to the U.S. Department of Energy's (DOE) Funding Opportunity Announcement DE-FOA-0000036. Southern California Edison (SCE) is applying for \$25 million in match funding from the DOE program Area of Interest 2.1, Grid Scale Energy Storage Demonstrations: Battery Storage for Utility Load Shifting or for Wind Farm Diurnal Operations and Ramping Control.

The proposed Tehachapi Wind Energy Storage Project (TSP) will be led by SCE. A123Systems and the California Independent System Operator (CAISO) will be 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 brings to the project comprehensive experience in all relevant technological and operational areas.

### **Project Objectives**

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 proposed project, SCE will evaluate a wider range of applications for lithium-ion batteries that will spur broader demand for the technology, bringing production to a scale that will 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 energy sector.

### **Project Description and Participants**

The TSP team has selected the Antelope-Bailey 66kV system for this demonstration because using the location will allow the team to leverage the results of an ongoing CEC study at the site, thereby maximizing the benefits of this project. In fact, the CEC project team has already identified issues at Antelope-Bailey 66kV system that could be incorporated into the federal project.

Antelope-Bailey is part of the Tehachapi Wind Resource Area (TWRA), where up to 4,500 MW of wind resources will come online by 2015. SCE's service area is home to the state's most productive sites for wind and solar generation including the TWRA. The effective cultivation of these resources – enabled in part by energy storage – will help SCE meet state Renewables Portfolio Standard (RPS) goals and establish replicable methods for broader national utilization.

### **Expected Results**

The TSP storage system will consist of an 8 MW – 4 hour (32 MWh) lithium-ion battery and inverter that are cutting-edge in scale and application. To demonstrate the system's effectiveness in improving grid performance and wind integration, the team will test the battery under 13 specific operational uses derived from the Electric Power Research Institute's (EPRI) energy storage market research. These targeted uses are in line with the DOE's stated goals of refining utility load shifting, increasing dispatchability of wind generation, and enhancing ramp rate control to minimize fossil fuel-powered back-up generator operation.

### **Jobs Creation**

At SCE, we directly employ around 16,000 people, many of them union-represented. 51% are minority or female employees, reflecting the diversity of the customers we serve. We estimate that about 20,000 well-paid jobs will be created by SCE for many years to build the massive transmission facilities needed to

transport renewable power throughout the western grid. Our energy efficiency programs create over 1,100 jobs, many of them in the low-income communities that we serve. SCE's TSP demonstrates many of the elements cited in the Smart Grid Jobs Report that KEMA estimates will create 320,000 direct U.S. jobs over the next ten years from the deployment of Smart Grid.

**CERTIFICATE OF SERVICE**

I hereby certify that, pursuant to the Commission's Rules of Practice and Procedure, I have this day served a true copy SOUTHERN CALIFORNIA EDISON COMPANY'S (U 338-E) NOTICE PURSUANT TO ORDERING PARAGRAPH 1 AND SECTION 3.2 OF D.09-09-029 on all parties identified on the attached service list(s). Service was effected by one or more means indicated below:

Transmitting the copies via e-mail to all parties who have provided an e-mail address. First class mail will be used if electronic service cannot be effectuated.

Executed this **9th day of October, 2009**, at Rosemead, California.

/s/ Christine M. Sanchez  
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California Public  
Utilities Commission

CPUC Home

## CALIFORNIA PUBLIC UTILITIES COMMISSION

### Service Lists

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**LAST CHANGED: OCTOBER 7, 2009**

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**[TOP OF PAGE](#)**  
**[BACK TO INDEX OF SERVICE LISTS](#)**