

# SMUD News Release

Sacramento Municipal Utility District

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For Immediate Release: October 29, 2009

## SMUD awarded over \$4 million grant

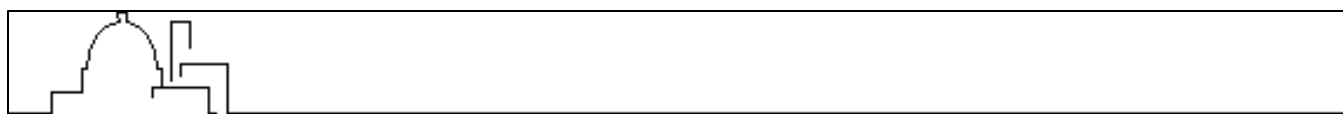
The Sacramento Municipal Utility District (SMUD) will be awarded \$4.3 million dollars from the Department of Energy (DOE) to aid in completing the utility's photovoltaic (PV) and smart grid pilot project.

The primary objective of the 12-month pilot project is to examine how the integration of energy storage can be used to enhance the value of distributed PV resources.

The pilot which is expected to kickoff in the first half of 2010 will be conducted in Anatolia III, a community within SMUD's service territory. The community is part of the utility's Solar Smart Homes<sup>SM</sup> program and is made up of new, energy efficient homes with 2kW grid-tied, rooftop PV systems installed during construction. Energy storage will be deployed in two configurations. First, Residential Energy Storage (RES) systems will be connected behind the meter at customer homes and sized to integrate with the home's PV output and load. Second, Community Energy Storage (CES) systems will be connected to pad-mount transformers on distribution feeders and will be sized to work with the group of homes fed by each transformer. A control group without energy storage will also be included in the project. Additionally each of the homes will be part of SMUD's Advanced Metering Infrastructure (AMI) rollout. The use of the new meters will allow SMUD to monitor the hourly electricity usage of each volunteer.

The pilot will also allow monitoring of the PV systems along with the energy storage to give SMUD a better picture of the potential value of distributed energy resources from a utility standpoint

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## 2-2-2-2 SMUD awarded \$4 million grant

and determine how well the storage systems can support SMUD's super-peak from 4 p.m. to 7 p.m., especially after 5 p.m. when output from the PV systems drops significantly.

SMUD has been a leader in developing ways to better integrate renewable technologies into the grid. Once completed, the results of the pilot are expected to take another important step by contributing significantly to developing ways to address technical issues that currently limit the integration of PV in high penetrations.

SMUD will serve as the project lead with GridPoint, National Renewable Energy Laboratory (NREL) and Navigant Consulting rounding out the project team. The entire project is expected to cost \$5.9 million. DOE grant funds are subject to negotiation but are expected to be the primary funding source with additional funding coming from the project team.

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