Experimental Demonstration of Sandia PV Smoothing Algorithm using Coordinated Battery and Traditional Generation System

SAND2013-9075C

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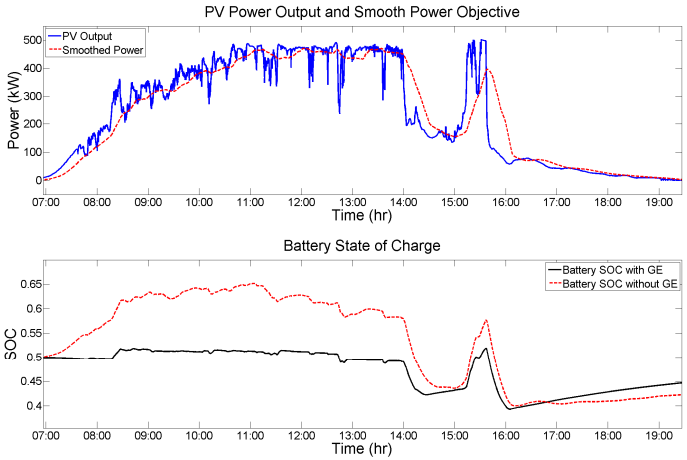
Work funded by Dr. Imre Gyuk at the U.S. DOE Energy Storage Program.

- **Objective: Reduce the cost of battery-based PV-smoothing systems by novel control schemes which allow a battery size reduction.**
- **Hypothesis: Smoothing PV power variability with a coordinated battery and inexpensive gas genset allows the required battery capacity and cost to be reduced.**



Simulations show a reduction in the state of charge (SOC) range when the battery is paired with a gas genset.

Distributed control demonstration underway in Albuquerque with 500 kW PNM utility-scale PV plant and 240 kW natural gas genset attached to building-scale microgrid.

Partners: PNM, NEDO, TOKYO GAS, SHMZ, TOSHIBA, UNM, Mesa del Sol

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