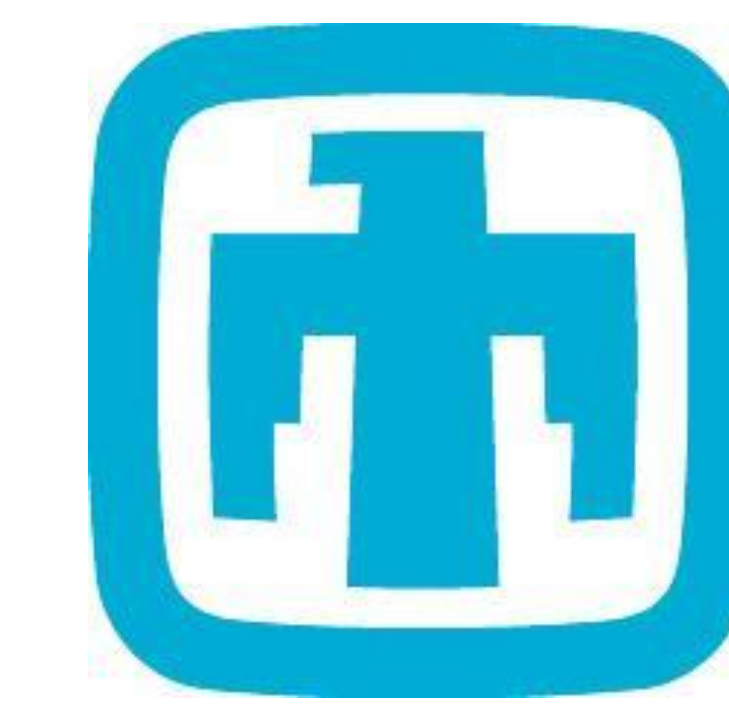


US Department of Energy, Office of Electricity, Energy Storage Program

International Energy Storage Database

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Special thanks to the DOE Energy Storage Program and Dr. Imre Gyuk



Sandia National Laboratories

Interactive Map Displaying Search Results

Basic Search Filters

Map Displaying Project Location

Project Photo

Clickable Summaries of Search Results

Export to PDF or Excel

User-Uploaded Information:
Users can create a profile and add new entries to the site. This drastically reduces the workload of the administrator by:
 » Including data from a wider variety of sources
 » Allowing users to create and maintain entries of their projects
 » Providing information that might otherwise not be included
 All new and modified entries are vetted through the storage project owner to ensure accuracy.

Data

Project Name	Technology	Rated Power (MW)	Duration (HH:MM)	Location	Status
PNM Prosperity Energy Storage Project	Advanced Lead Acid Battery	500	5:36	Albuquerque, New Mexico, United States	Operational
Southern California Edison - HVAC Optimization Program with energy storage	Ice Thermal Storage	750	6:00	Rosemead, California, United States	Operational
Glendale Water and Power - Peak Capacity Project	Ice Thermal Storage	1,500	6:00	Glendale, California, United States	Operational
Painesville Municipal Power Vanadium Redox Battery Demonstration	Vanadium Redox Flow Battery	1,080	8:00	Painesville, Ohio, United States	Contracted
Los Andes	Lithium Ion Battery	12,000	0:20	Copjapo, Atacama, Chile	Operational

PNM Prosperity Energy Storage Project

Technology Type: Advanced Lead Acid Battery
Rated Power (kW): 500
Duration at Rated Power (HH:MM): 5:36
Description: This project is demonstrating how a 2.8MWh Advanced Lead Acid battery along with a sophisticated control system turns a 500kW solar PV installation into a reliable, dispatchable distributed generation resource. This hybrid resource will mitigate fluctuations in voltage normally caused by intermittent sources such as PV and wind and simultaneously store more energy for later use when customer demand peaks. The project is supported by an ARRA grant from the U.S. Department of Energy, Office of Electricity. <http://www.smartgrid.gov/sites/default...>

Web Link: <http://www.smartgrid.gov/sites/default...>

Project Status	Status	Operational
Announcement On	Jan 01, 2010	
Commissioning On	Aug 01, 2011	

Siting

Location	ISOR/TO Utility	Utility Type
Albuquerque, New Mexico United States	N/A	Public Service Company of New Mexico Investor Owned

Ownership & Value Chain Partners

Ownership Model	Equity Owner 1	Energy Storage Technology Provider
Utility-Owned	Public Service Company of New Mexico	Ecout

Cost & Performance

Performance	CAPEX (\$)	Performance metrics not available.
	\$6,113,433.00	

Benefits & Incentives

Benefit Stream 1	Benefit Stream 2	Benefit Stream 3	Incentive Program 1	Incentive Source 1	Incentive 1 Amount
Voltage Support	Stationary Transmission/Distribution Upgrade	Deferred	Renewables Capacity Firming	ARRA Grant	US Department of Energy, Office of Electricity \$2,305,931.00

Research Partner

Research Institution	Research Description	Research Institution Link
University of New Mexico in collaboration with Sandia National Laboratories	This project is designed to test the coupling of a 2.8MWh Advanced Lead Acid battery with a sophisticated control system, and will work with a 500kW solar PV installation to act as a reliable and dispatchable distributed generation resource. http://www.sandia.gov/ess/	

Metadata

Record Created	Last Updated
2012-04-19 06:08 PM UTC	2012-07-19 02:02 AM UTC

Export to PDF or Excel

Purpose:

Establish the go-to source of open-access, reference-grade information on energy storage projects and policies.

Status:

The database beta is fully functional and is currently in the population stage, with over 70 entries vetted and published, and additional user-submitted entries being added regularly. The beta can be seen at <http://sandia.gov/ess/database>.

Future Plans:

We will continue to vet and maintain the entry data, as well as implement a variety of capabilities that will enhance functionality, and allow for a broader scope of site interaction. Some examples include:

- Link related entries to provide a more cohesive, “at-a-glance” web of information (e.g. SGIP and AB 1150, multiple related storage systems, etc.)
- Allow users to “share” entries with colleagues, and receive customized alerts
- Enhance working relationships with strategic partners in order to more efficiently collect and maintain data from a variety of existing stakeholder organizations, and improve site usability for those organizations.