Sandia’s Energy Storage Projects Status

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Objective
Collaborate with industry, utilities, universities and other national labs to design, install, demonstrate and quantify the benefits of energy storage.

List of Projects
- Cordova Alaska Energy Storage Analysis with Alaska Center for Energy and Power
- Electric Power Board Vanadium Redox Flow Battery Demonstration and Performance Analysis with Oak Ridge National Lab (100kW/250kWh)
- Green Mountain Power Li-Ion/Lead Acid Performance Analysis (4MW/3.4MWh)
- Salem Smart Power Center Application Analysis of Li-Ion with Pacific Northwest National Lab (5MW/1.25MWh)
- Los Alamos County Non-Spinning reserve Analysis (1MW/6MWh NAS and 0.8MW/2.4MWH Lead)
- Natural Energy Laboratory of Hawaii Authority install and evaluation of Flow Battery and Li-Ion (100kW/250kWh)
- City of Burlington Electric energy storage for microgrid application analysis and request for proposal development

Future Research and Demonstrations
- Continue collecting data from demonstration sites to evaluate performance, validate economic and technical models
- Refine energy management controls to optimize energy storage current and future applications
- Deploy more energy storage systems in various sizes, technologies and environmental conditions to increase data base and knowledge of performance limitations