

# Energy Storage for Grid Resilience

## Labs dedicated to the design and safe integration of energy storage systems



### BATLAB

#### Battery Safety Testing

Understanding the safety and reliability of electrochemical energy storage systems



### BTF

#### Battery Performance Testing

Non-destructive evaluation and characterization of newer, high hazard power sources such as batteries, capacitors



### APEX

#### Advanced Power Electronic Conversion Systems

Supports the development of advanced power conversion topologies and intelligent control strategies.



### ESCAL

#### Energy Storage Controls and Analytics Laboratory

Dedicated to the development of next-generation energy storage control systems to increase battery performance and lifetime.



### ESTP

#### Energy Storage Test Pad

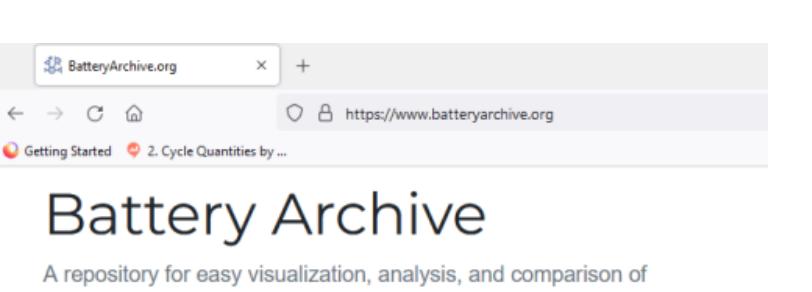
Provides long-term testing and validation for electrical energy storage systems.



### DETL

#### Distributed Energy Technologies Laboratory

Designed to integrate emerging energy technologies into new and existing electricity infrastructure like solar and EV charging



### Battery Archive

#### Public archive of battery data

Access performance and safety data of cells and systems



### Navajo Nation Demonstration

Bring power to remote areas

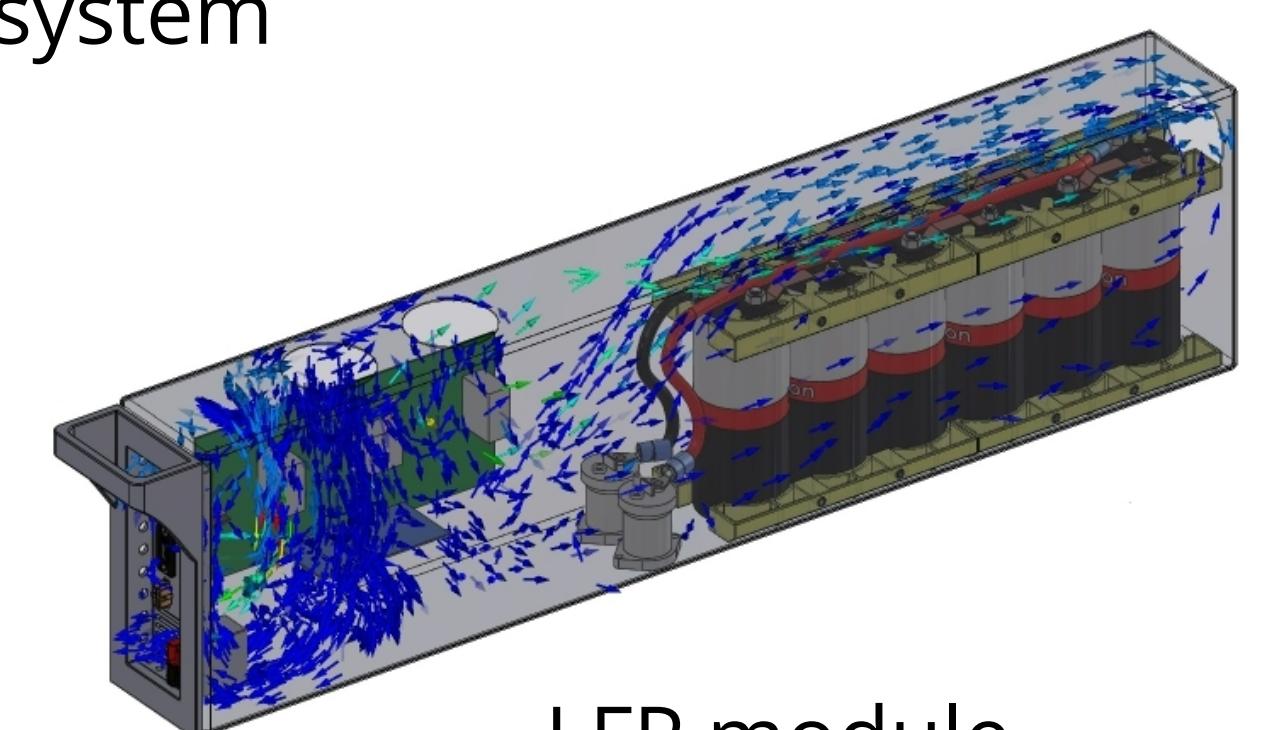
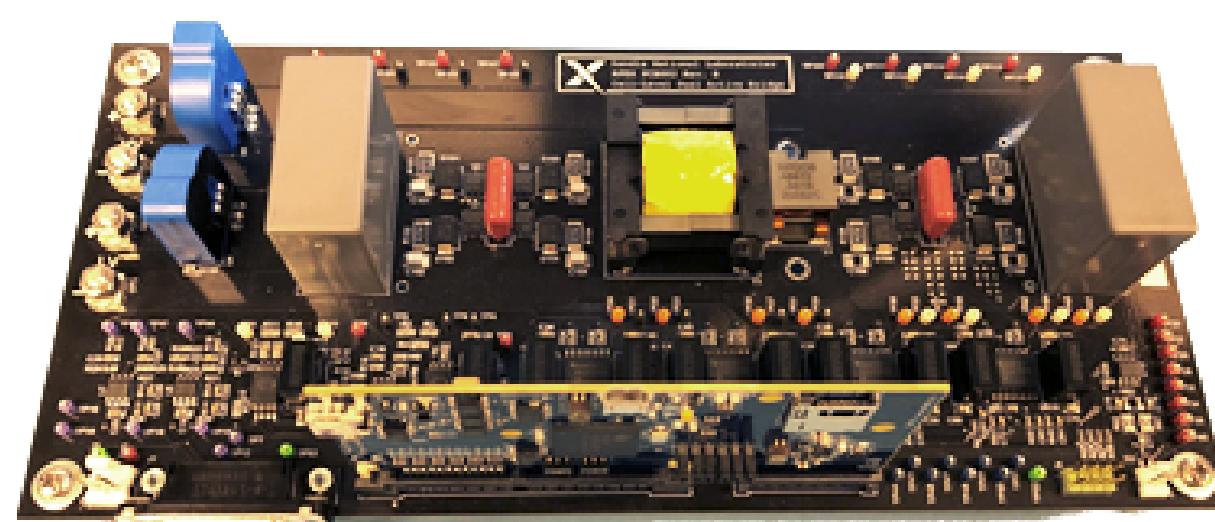
Installed batteries developed with DOE Office of Electricity funding to power a remote community

## Accelerate the development and validation of US battery technologies

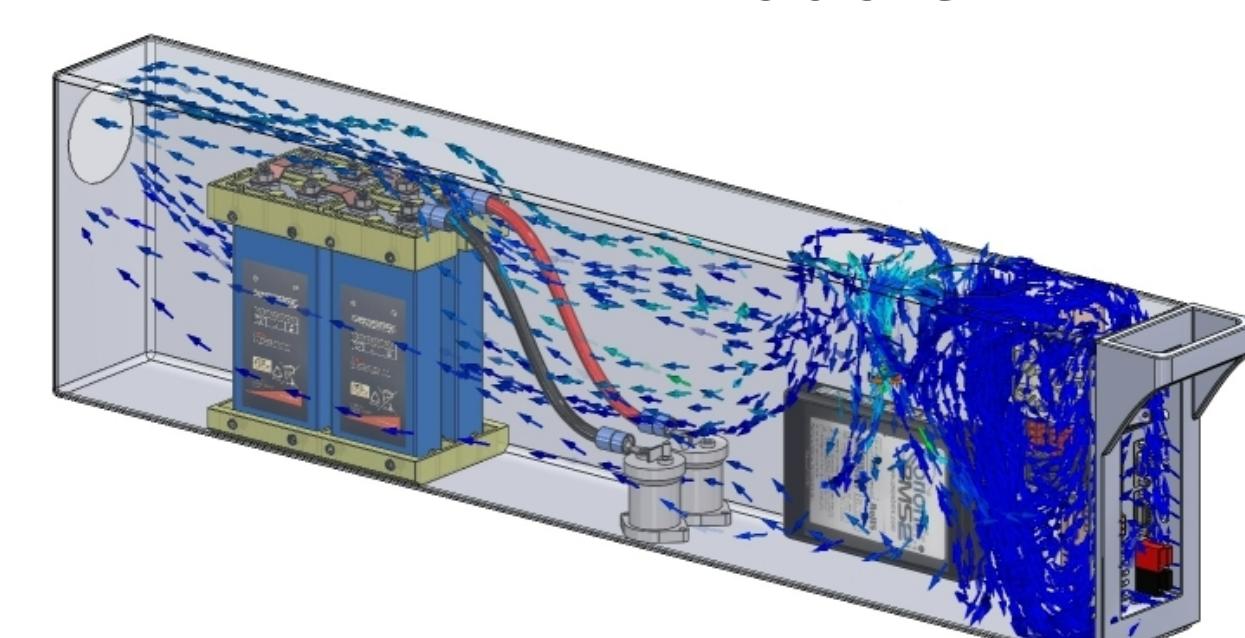
- Accommodate any battery technology
- Cut the time to go from the lab to products
- Open-access, open-source modular system
- Increase system safety
- Decrease maintenance cost



Racking system



LFP module



VRLA module

DC-DC Converters

## Open-source web interface

