

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

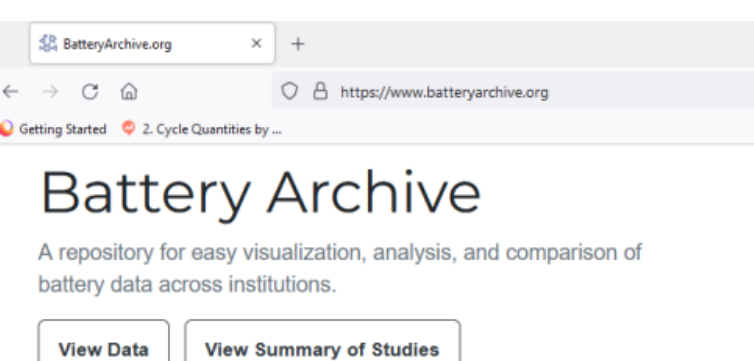
Provides long-term testing and validation for electrical energy storage systems.



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

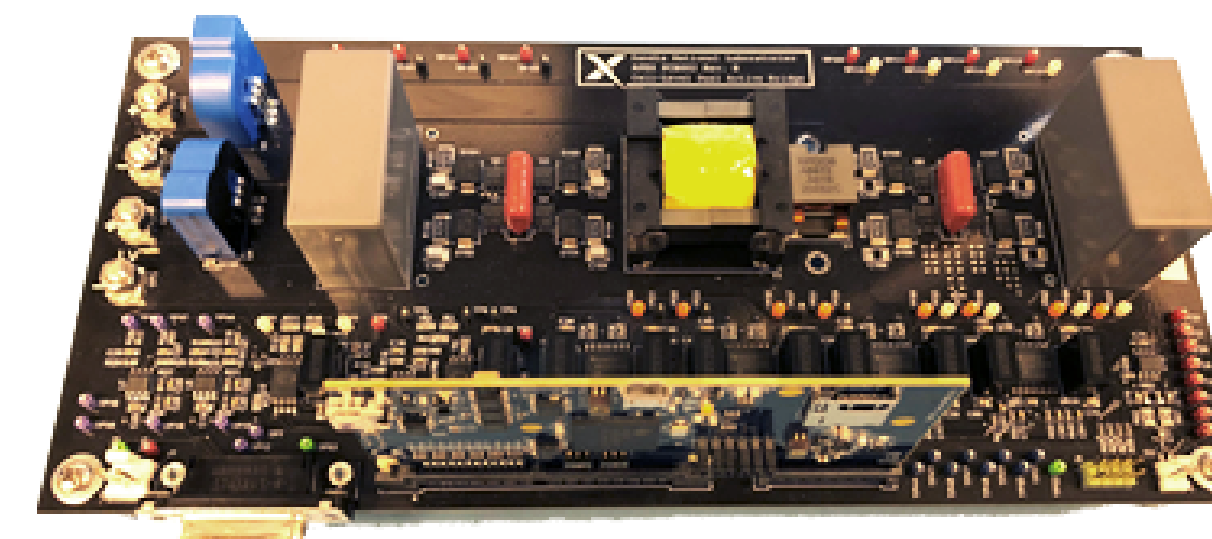
Installed batteries developed with DOE Office of Electricity funding to power a remote community

Accelerate the development and validation of US battery technologies

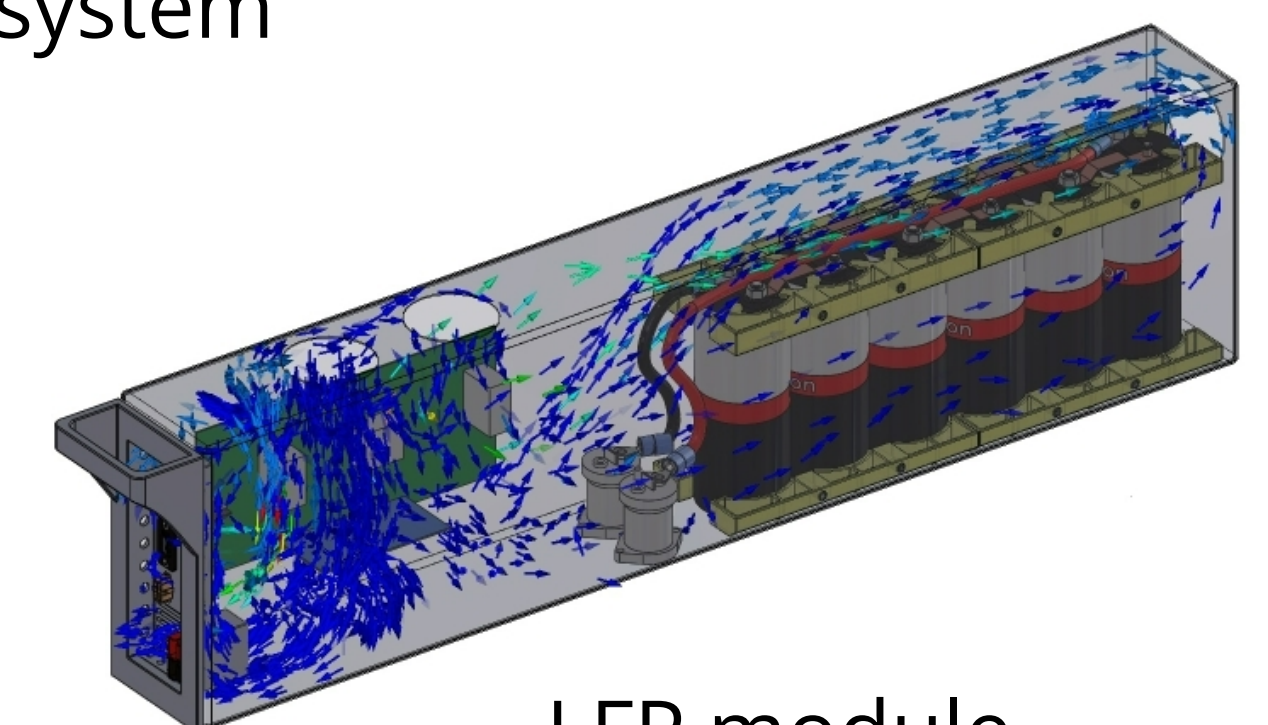
- Accommodate any battery technology
- Cut the time to go from the lab to products
- Open-access, open-source modular system
- Increase system safety
- Decrease maintenance cost



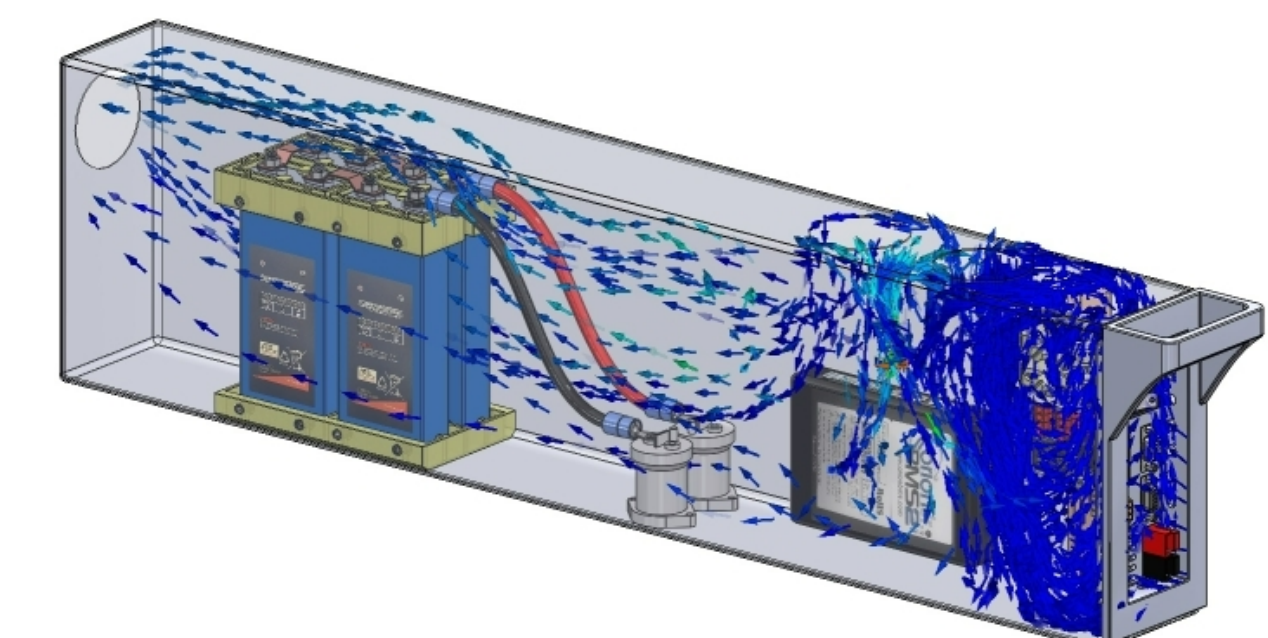
Racking system



DC-DC Converters



LFP module



VRLA module

Open-source web interface

