

Grid Storage Launchpad (GSL)



PNNL is operated by Battelle for the U.S. Department of Energy





Grid Storage Launchpad (GSL) Overview



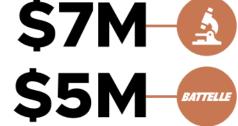
TOTAL ESTIMATED FACILITYCOST

WORKSTATIONS

LAB MODULES



\$15M-B \$7M-





GSL Mission

Validate:

Independent testing of next generation storage materials and systems (<100kW) under realistic grid operating conditions

Accelerate:

Reduce risk and speed development of new technologies by propagating rigorous grid performance requirements to all stages of development

Collaborate:

Link DOE and storage R&D communities in a new collaboration center to solve key crosscutting challenges.

Educate:

Provide standardized training and development of the next generation workforce, from skilled labor to first responders and safety officials, to utility planners and regulators.



GSL: Accelerating Development Cycle

Systematic incorporation of real-world duty cycles & Al/ML

tools for performance projections.

Rigorous Performance Testing across scales









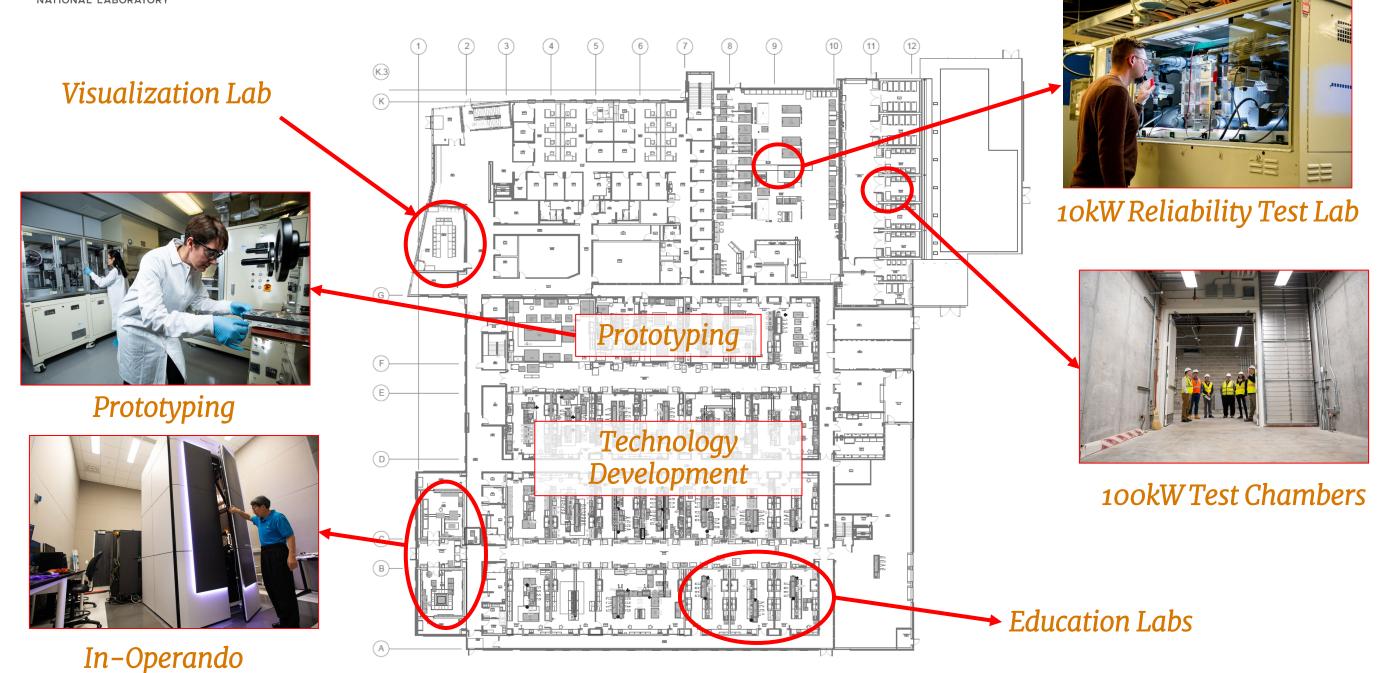


Validated performance and digital twin development



Characterization

GSL Validate-Accelerate-Collaborate-Educate





GSL: Opening Summer 2024





Discussion

GSL Opportunities for the wider storage community