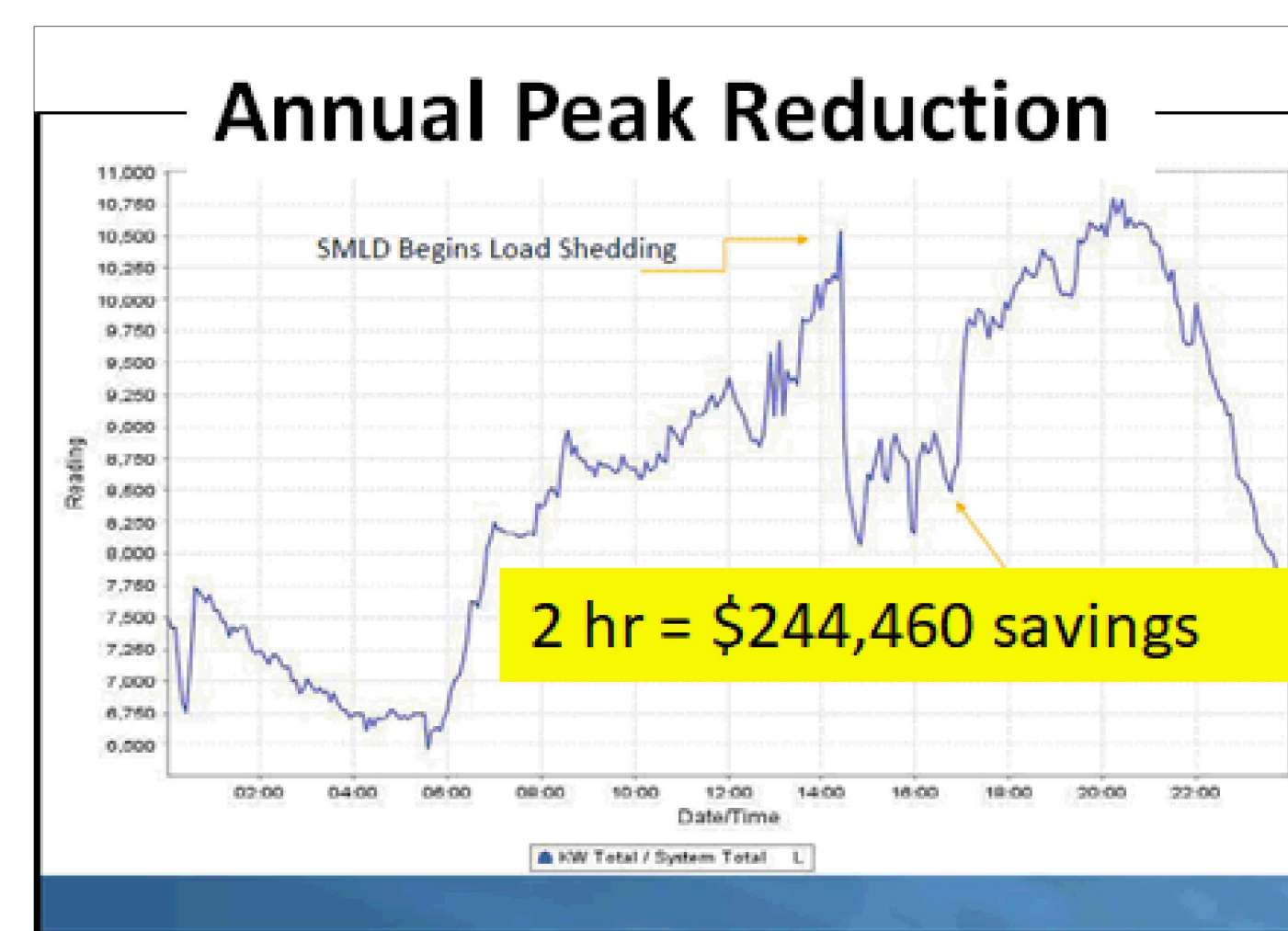
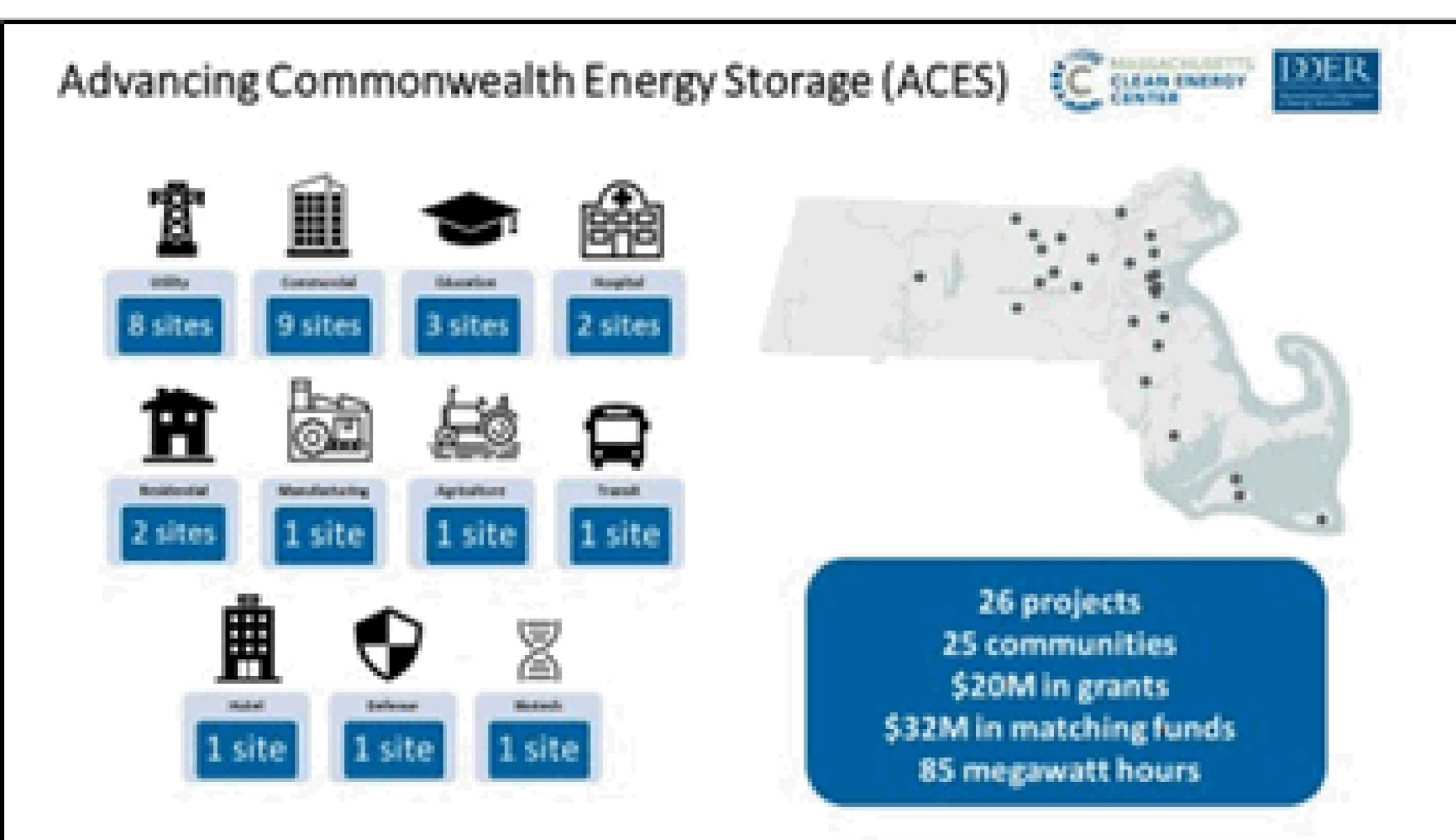
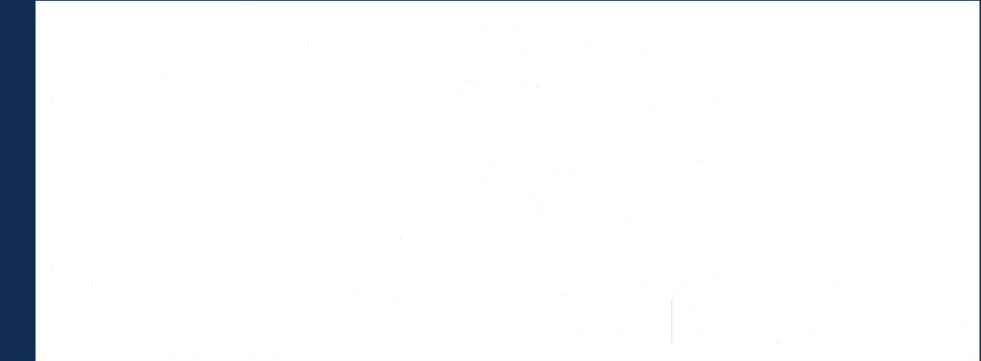


Advancing Commonwealth Energy Storage (ACES) | Sandia National Laboratories | Clean Energy States Alliance



Energy Storage Technology Advancement Partnership (ESTAP)

Energy Storage Technology Advancement Partnership (ESTAP) is a project of Clean Energy States Alliance (CESA), conducted under contract with Sandia National Laboratories, with funding from US DOE-OE.

ESTAP Key Activities:

- Disseminate information to stakeholders through webinars, conferences, reports.
- Facilitate public/private partnerships to support joint federal/state energy storage project deployment
- Support state energy storage efforts with technical, policy and program assistance

Current projects

Deployment

- **Vermont:** Green Mountain Power, Burlington Electric/Burlington International Airport, McKnight Lane modular affordable housing
- **Massachusetts:** Sterling Municipal Light Department
- **Oregon:** Eugene Water & Electric Board
- **Alaska:** Cordova Electric Cooperative
- **New Mexico:** Albuquerque Public Schools
- **Colorado:** Gunnison Rural Electric Co-op

State technical support

- **Connecticut:** Technical support to DEEP microgrid grant program
- **Massachusetts:** Technical support to MA Clean Energy Council to help develop ACES energy storage demonstration grant program (this program has awarded \$20 million to support 26 energy storage projects demonstrating new applications, business models and economics in the state of Massachusetts)
- **Vermont:** technical support to Vermont Department of Public Service to write state energy storage study for the state legislature

Analysis

- **Boston Medical Center, Massachusetts:** Optimization analysis for major metropolitan hospital using battery storage with CHP to improve power quality, reduce demand charge costs, and maximize resilience
- **Gunnison Rural Electric Co-op, Colorado:** Analysis for rural electric co-op using battery storage to reduce costs and improve reliability
- **Albuquerque Public Schools, New Mexico:** Analysis for Rio Grande High School, optimizing battery for demand charge management
- **Burlington International Airport, Vermont:** Analysis for solar storage microgrid providing resiliency and cost savings
- **Peaker plant replacement:** Analysis of the technical capability of energy storage to replace gas peaker plants for capacity provision and grid stabilization
- **EV fast chargers:** Analysis of economic opportunity for energy storage co-located with electric vehicle fast chargers, to reduce demand charges that present a barrier to EV adoption