



EPIC-3, Project 7 Demonstration of a Multipurpose Mobile Battery

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EPIC-3, Project 7 Objective

Pre-commercial demonstration project which evaluated the effectiveness of mobile batteries when rotated between applications and identify preferred applications and strategy for the rotation

Benefit Areas:

Peak Demand Reduction	Community & Climate Change
<ul style="list-style-type: none"> • Customer bill savings • Mitigate procurement and generation costs 	<ul style="list-style-type: none"> • Greenhouse gas (GHG) emissions reduction • Disadvantaged and low-income communities
Grid Modernization & Resiliency	Economic
<ul style="list-style-type: none"> • Contribute to microgrids as a tool for modernization and resiliency • Wildfires 	<ul style="list-style-type: none"> • Improve efficiency • Reduce electrical losses in transmission and distribution

Module 1

Evaluation of stacked benefits at multiple sites 362kW/1499kWh Battery

Module 2

Back up power solution for planned safety outages and emergency events 100kW/525kWh Battery

Module 1 – 362kW/1499kWh Battery



Demonstration and evaluation of stacked benefits identified through utilizing a mobile BESS at multiple locations with multiple use cases

Use cases demonstrated include:

- Safety
- Load factor correction
- Load smoothing
- Peak shaving
- Demand response
- Load blackstart

Locations include:

- Marine Group Boat Works, a Port of San Diego tenant
- Cameron Corners Microgrid



Module 2 – 100kW/525kWh Battery



Demonstration as a backup power solution during planned safety outages and in emergency events such as a response to wildfires.

- Demonstrations completed at two community resource centers in areas that are highly susceptible to Public Safety Power Shutoffs
- Ran for 24 hours at each location to ensure battery can provide power reliably and for a long period of time

