



# **Item 4: IEP Camp Pendleton Energy Storage 1, LLC**

December 11, 2024 Business Meeting

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# Benefits to Californians

- Accelerate commercialization of long duration energy storage (LDES) technology
- Enhance resiliency and reliability for base and region
- Reduce regional greenhouse gas emissions



Eos zinc batteries at the Viejas Tribe (top) and Marine Corps Air Station Miramar (bottom)  
Source: CEC



# Environmental Review

## INITIAL STUDY

### Haybarn Energy Reliability Center

(23-ERDD-07)

Lead Agency

California Energy Commission



October 2024

- On October 28, 2024, CEC published:
  - Initial Study
  - Proposed Mitigated Negative Declaration
  - Proposed Mitigation Monitoring and Reporting Program
  - Notice of Intent to Adopt a Mitigated Negative Declaration
- Review and comment period:
  - October 29 – November 27, 2024



# Environmental Review (continued)

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- The final Initial Study and Mitigated Negative Declaration find:
  - The Project will not result in any significant environmental impacts with the imposition and implementation of the mitigation measures proposed
- Mitigation proposed in technical areas for:
  - Biological Resources
  - Cultural Resources
  - Geology & Soil



# Project Overview

## Long-Duration Storage System

- 6MW, 48MWh, 8-hour duration
- Eos Batteries: Zinc-hybrid
- Experienced project team
- Planned to scale to 50 MW, 400MWh
  - Biggest commercial project in the CEC LDES program

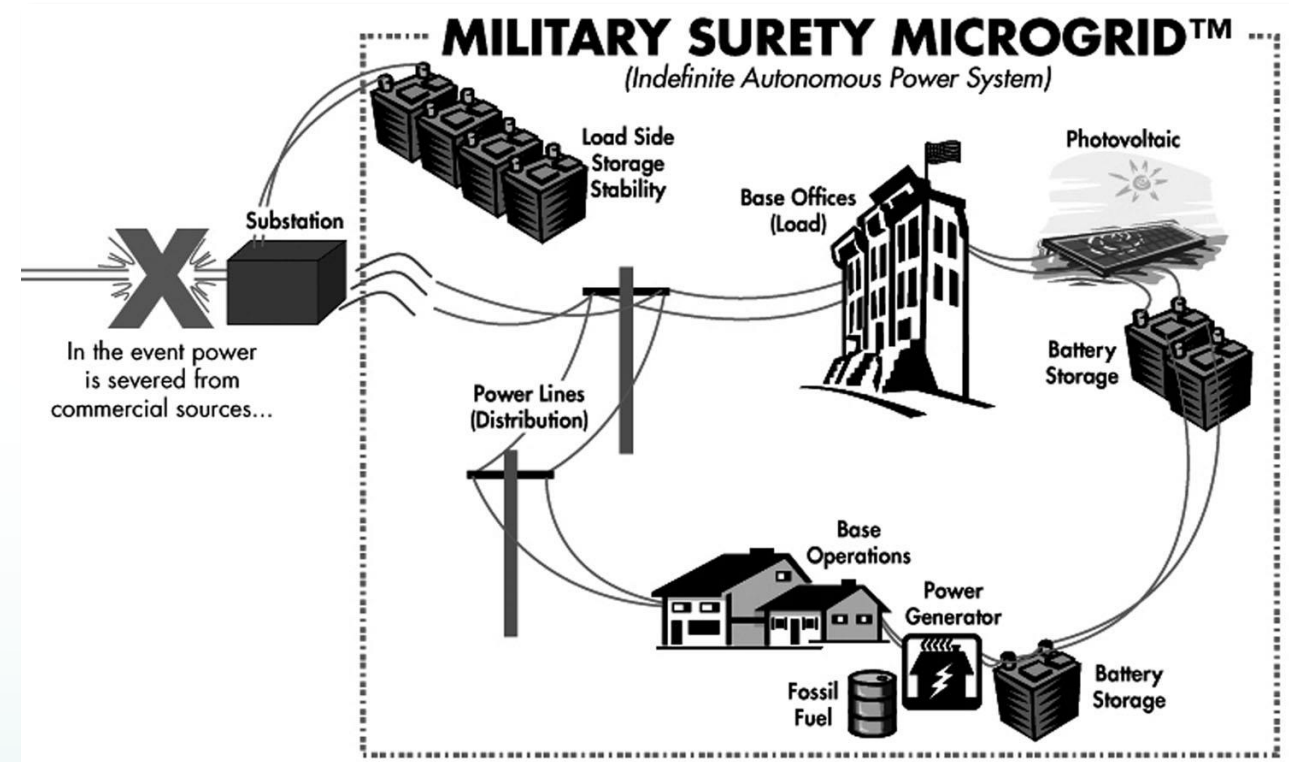




# Project Overview (Continued)

## Replicable Use-Cases

- Demonstrates LDES as stand-alone system
- Military energy resiliency:
  - Provides power to the Base during outages
  - Engages energy markets when grid is “up”



Source: Sandia National Lab





# Statewide Potential

- **30** major military installations in California
- If all CA military bases adopted this model, potential **1.5 GW** of LDES supporting CA's grid
- Could help meet the **4 GW** of LDES needed for 100% clean energy by 2045



Military bases in California. Source: US Department of Defense



# Staff Recommendation

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- CEQA review:
  - Adopt the proposed final initial study, mitigated negative declaration, and mitigation monitoring and reporting program
  - Adopt CEQA findings that with implementation of the mitigation measures and the mitigation monitoring and reporting program, there is no substantial evidence that adoption of the Project will have a significant effect on the environment.
- Approve agreement LDS-24-004 with IEP Camp Pendleton Energy Storage 1, LLC.