



# **Item 12: Sacramento Municipal Utility District**

July 10, 2024 Business Meeting

Yahui Yang, Mechanical Engineer  
Energy Research and Development Division  
Energy Systems & Transportation Branch



# Benefit to Californians

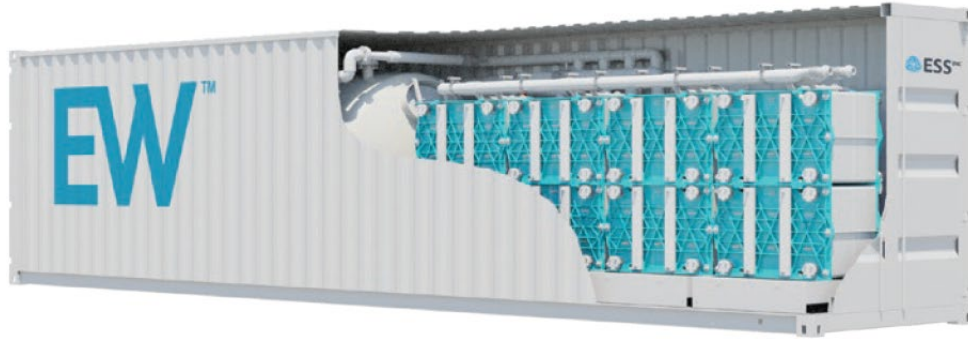
- Accelerate commercialization of iron flow battery technology
- Improve cost competitiveness of non-lithium long-duration energy storage
- Support grid distribution and transmission systems



Source: SMUD



# Project Overview



Source: ESS Tech Inc.



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## Iron Flow Battery

- Up to 8 hours of discharge
- Modular design for utility-scale applications
- Safe and sustainable electrochemistry
- Long lifetime with negligible degradation
- Battery materials recyclable at end-of-life
- Low operation and maintenance costs



# Project Overview



Source: ESS Tech Inc.

## Demonstration

- 3.6 MW, 28.8 MWh, 8-hour duration
- SMUD Hedge Solar Facility
- Front-of-the-meter grid application
- Performance test and evaluation
- Enable larger-scale deployments



# Staff Recommendation

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- Adopt staff determination that this action is exempt from CEQA
- Approve agreement with SMUD