



Item 6: Form Energy, Inc.

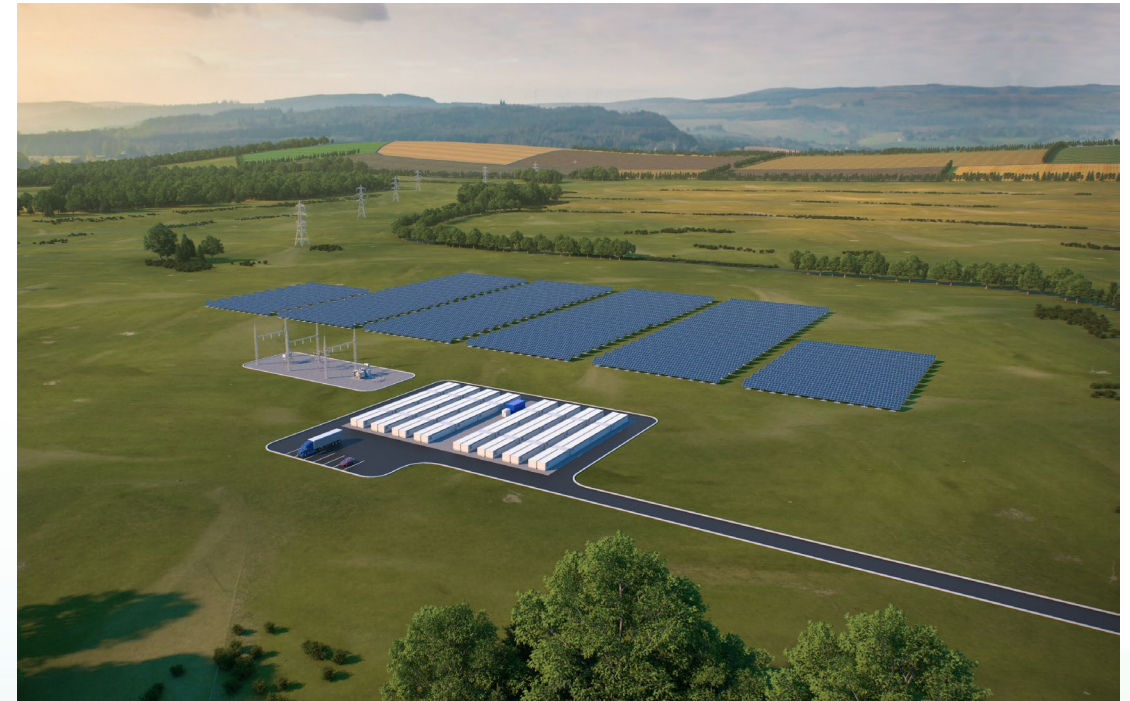
December 13, 2023 Business Meeting

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Energy Research and Development Division
Energy Systems Research Branch



Benefit to Californians

- Addressing challenges of energy reliability, resilience, and decarbonization
- 2.4 TWh of renewable energy curtailment in 2022 (per CAISO)
- 1 GW long-duration energy storage (LDES) needed by 2032
- Improved energy affordability at low cost



Rendering of Form Energy's storage system with solar panels
Source: Form Energy, Inc.



Environmental Review

INITIAL STUDY AND PROPOSED MITIGATED NEGATIVE DECLARATION

East Road Storage

(CEC- 500-2023-055-D)

Lead Agency

California Energy Commission



October 2023

- October 26, 2023, 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 27 - November 27, 2023
- Comments received



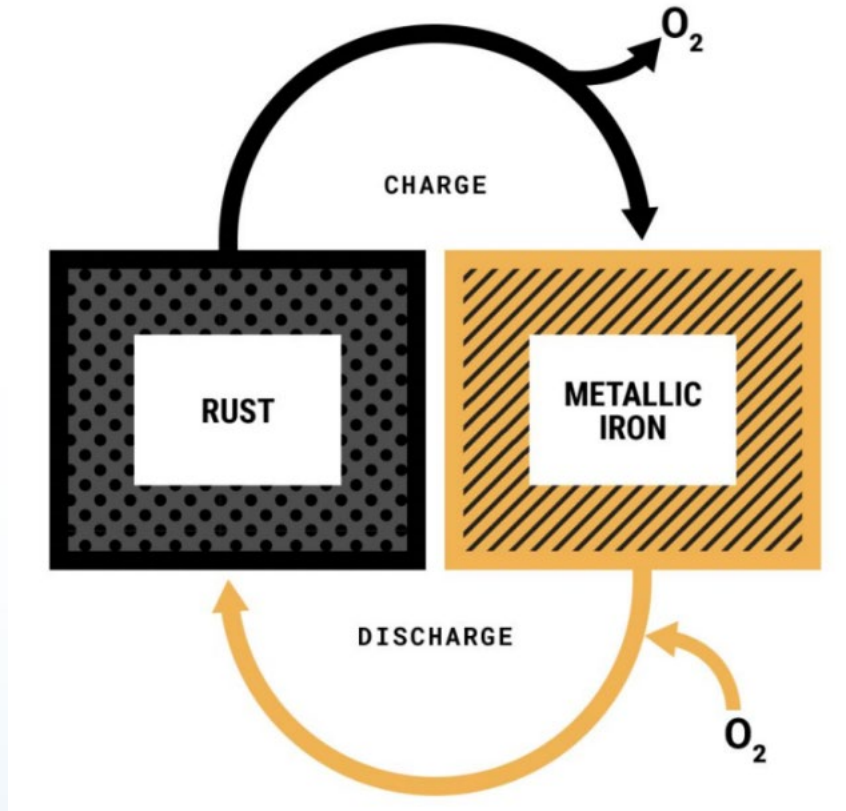
Environmental Review (continued)

- The Initial Study and proposed Mitigated Negative Declaration find:
 - The Project will not result in any significant environmental impacts with the imposition and implementation of the mitigation measures proposed
- Proposed mitigation:

Technical Area	Proposed Mitigation Measures
Biological Resources	MM BIO-1 through MM BIO-8
Cultural and Tribal Cultural Resources	MM CUL-1 through MM CUL-3
Geology and Soils	PR-1 through PR-2
Hazardous Materials	MM HAZ-1 through MM HAZ-3
Noise	MM NOISE-1 through MM NOISE-3
Transportation	MM TRANS-1



Project Overview



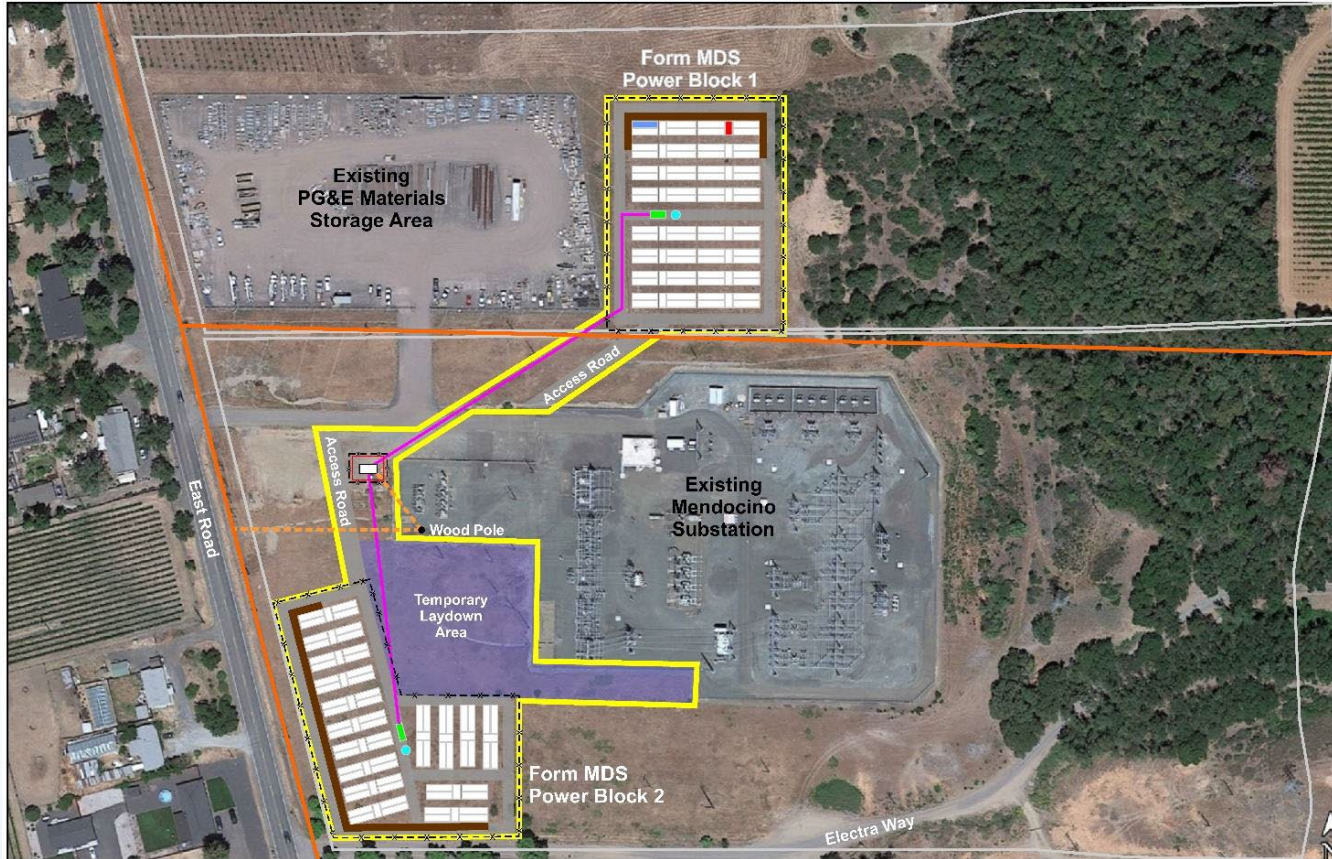
Source: Form Energy, Inc.

Iron-air Battery Technology

- **Electrochemical reaction:** reversible rusting
- **Safe:** non-flammable electrolyte; no thermal runaway; no rare earth metals
- **Low cost:** \$20/kWh vs \$200/kWh for lithium-ion technology
- **Easy to scale:** abundant and inexpensive materials from existing supply chains
- **Made in USA**



Project Overview (continued)



Multi-day Storage System

- 100-hour duration, 5 MW, 500 MWh
- Front-of-the-meter grid application
- PG&E's Mendocino substation
- Use case and market analysis
- Construction and operation of multi-day storage system

Source: Form Energy, Inc.



Submitting Future Comments

Long Duration Energy Storage Program Docket at:

**[https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?
docketnumber=23-ERDD-07](https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=23-ERDD-07)**

The Public Advisor assists the public with participating in
CEC proceedings:

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Staff Recommendation

Adopt the resolution filed with the backup materials:

- Regarding CEQA for the East Road Storage Project:
 - Adopt the initial study, mitigated negative declaration, and mitigation monitoring and reporting program, including proposed mitigation measures
 - Adopt CEQA findings, including that, with implementation of the proposed mitigation measures and mitigation monitoring and reporting program, there is no substantial evidence that adoption of the Project will have a significant effect on the environment
- Approve amendment #1 to agreement LDS-22-004



Thank you!