

DOCKETED

Docket Number:	23-ERDD-01
Project Title:	Electric Program Investment Charge (EPIC)
TN #:	253907
Document Title:	Lawrence Berkeley National Laboratory Comments - Energy Storage Innovations to Support Grid Reliability
Description:	N/A
Filer:	System
Organization:	Lawrence Berkeley National Laboratory
Submitter Role:	Public Agency
Submission Date:	1/16/2024 4:49:20 PM
Docketed Date:	1/16/2024

*Comment Received From: Lawrence Berkeley National Laboratory
Submitted On: 1/16/2024
Docket Number: 23-ERDD-01*

Berkeley Lab Comments - Energy Storage Innovations to Support Grid Reliability

Please see comments attached.

Additional submitted attachment is included below.



BERKELEY LAB

Bringing Science Solutions to the World

January 16th, 2024
Jonah Steinbuck
Director of the Energy Research and Development Division
California Energy Commission
715 P Street
Sacramento, California 95814

Re: Lawrence Berkeley National Laboratory Comments on EPIC Draft Solicitation Concept for Energy Storage Innovations to Support Grid Reliability

Director Jonah Steinbuck,

Commission staff released an EPIC Draft Solicitation Concept for Energy Storage Innovations to Support Grid Reliability soliciting public feedback on eligibility requirements, goals and vision, and solicitation format. Berkeley Lab is pleased to present our comments below:

Group 1 - Question 3: What data would be useful to gather and publish to validate technology improvements and accelerate commercialization?

Coulombic Efficiency and cycling data at varied conditions (Temperature, Current rates) would be useful to gather and publish to validate technology improvements and accelerate commercialization.

Group 1 - Questions 6: Should there be separate qualifications or target metrics for short-duration and long-duration storage within Group 1?

At this stage of technology development, it would not be necessary to have separate targets for short- and long-duration storage. The distinction between short and long duration storage seems artificial. For example, one could double duration at the same power by buying a second battery. Berkeley Lab suggests framing the metrics in terms of levelized cost of storage (LCOS).

Group 1 - Question 7: Should real-world field demonstrations be required or optional for Group 1 projects?

Berkeley Lab comments that real world field demonstration can be optional for group 1. The budget proposed in the solicitation may not be sufficient for real world demonstrations.

Berkeley Lab appreciates the opportunity to provide these comments regarding the EPIC Draft Solicitation Concept for Energy Storage Innovations to Support Grid Reliability.

The following individuals contributed comments: Haegyum Kim and Kenny Higa.

Sincerely,
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