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*Comment Received From: Noel Bakhtian  
Submitted On: 11/4/2022  
Docket Number: 19-ERDD-01*

**Docket 19-ERDD-01 - Scoping an Advanced Battery Bankability Accelerator Workshop Comments from Berkeley Lab**

Hello,

Thank you for the opportunity to provide comments on Docket 19-ERDD-01 - Scoping an Advanced Battery Bankability Accelerator Workshop. Comments attached.

Noel Bakhtian

*Additional submitted attachment is included below.*



Energy Storage  
Center  
BERKELEY LAB

November 4, 2022

Deputy Director Eric Stokes  
California Energy Commission  
1516 Ninth Street  
Sacramento, CA 95814

Re: Docket number 19-ERDD-01 Scoping an Advanced Battery Bankability Accelerator Workshop comments from Berkeley Lab

Dear Deputy Director Stokes,

Thank you for the opportunity to provide comments on the Advanced Battery Bankability Accelerator (ABBA) Workshop.

A majority of the global battery manufacturing intellectual property (IP) is not currently held by the U.S., and China and Europe dominate the global battery manufacturing landscape. A major tenet of the strategies from Berkeley Lab Energy Storage Center, the Federal Consortium for Advanced Batteries (FCAB) Lithium Battery Blueprint, and others is development of new US-based manufacturing IP in support of next-gen batteries to leapfrog the current state. This is especially important given that the dominant current manufacturing technologies, like roll-to-roll processing, stem from 19<sup>th</sup> century production practices. We recommend that one of the focus areas of this initiative and center be developing new CA-based battery manufacturing IP.

Given the urgency to decarbonize the economy, we also recommend an explicit focus on the science of manufacturing. The traditional discovery-to-deployment process for hardware-based technology has taken decades (e.g. lithium ion battery development). For next-gen technologies, what's needed is a dramatic acceleration of this process. CEC has been a leader in this effort by creating an innovation ecosystem in California that is unparalleled. Building upon this effort, the ABBA has the opportunity to co-locate research and manufacturing to facilitate industry's immediate iterative improvement to both prototypical designs of next-gen technologies and their scalable production.

We also support your concept of multiple facilities, especially given the recent CEC focus on Lithium Valley and the concentration of battery start-ups in southern California (complementing those in the Bay Area).

In collaboration,

A handwritten signature in black ink, appearing to read "Noël Bakhtian".

Noël Bakhtian  
Executive Director  
Berkeley Lab Energy Storage Center