

Board Strategic Development Committee Meeting and Special SMUD Board of Directors Meeting

Date: Tuesday, April 9, 2024

Time: Scheduled to begin at 6:00 p.m.

Location: SMUD Headquarters Building, Auditorium
6201 S Street, Sacramento, CA

Powering forward. Together.



AGENDA

BOARD STRATEGIC DEVELOPMENT COMMITTEE MEETING AND SPECIAL SMUD BOARD OF DIRECTORS MEETING

Tuesday, April 9, 2024
SMUD Headquarters Building, Auditorium
6201 S Street, Sacramento, California
Scheduled to begin at 6:00 p.m.

Remote Telephonic Location:
31372 Longhorn Trail
Bulverde, TX 78163

This Committee meeting is noticed as a joint meeting with the Board of Directors for the purpose of compliance with the Brown Act. In order to preserve the function of the Committee as advisory to the Board, members of the Board may attend and participate in the discussions, but no Board action will be taken. The Strategic Development Committee will review, discuss and provide the Committee's recommendation on the following:

Virtual Viewing or Attendance:

Live video streams (view-only) and indexed archives of meetings are available at:
http://smud.granicus.com/ViewPublisher.php?view_id=16

Zoom Webinar Link: [Join Board Strategic Development Committee Meeting Here](#)

Webinar/Meeting ID: 160 391 6505

Passcode: 087806

Phone Dial-in Number: 1-669-254-5252 or 1-833-568-8864 (Toll Free)

Verbal Public Comment:

Members of the public may provide verbal public comment by:

- Completing a sign-up form at the table outside of the meeting room and giving it to SMUD Security.
- Using the "Raise Hand" feature in Zoom (or pressing *9 while dialed into the telephone/toll-free number) during the meeting at the time public comment is called. Microphones will be enabled for virtual or telephonic attendees when the commenter's name is announced.

Written Public Comment:

Members of the public may provide written public comment on a specific agenda item or on items not on the agenda (general public comment) by submitting comments via email to PublicComment@smud.org or by mailing or bringing physical copies to the meeting. Email is not monitored during the meeting. Comments will not be read into the record but will be provided to the Board and placed into the record of the meeting if received within two hours after the meeting ends.

INFORMATIONAL ITEMS

1. Mike Gravely
TEAM LEAD AND SENIOR
ELECTRICAL ENGINEER FOR
THE ENERGY SYSTEMS
RESEARCH OFFICE,
CALIFORNIA ENERGY
COMMISSION (CEC)
Provide the Board external and internal presentations
on the **2030 Zero Carbon Plan: Long Duration
Energy Storage (LDES) & Battery Energy Storage
System (BESS) Strategy**.
Presentation: 52 minutes
Discussion: 10 minutes

Joel Ledesma
James Frasher
2. Public Comment
3. Nancy Bui-Thompson Summary of Committee Direction.
Discussion: 1 minute

ANNOUNCEMENT OF CLOSED SESSION AGENDA

1. Conference with Legal Counsel – Existing Litigation.

Pursuant to Section 54956.9(d)(1) of the Government Code:

Amy Ayers, et al. v. Sacramento Municipal Utility District
Sacramento County Superior Court Case No. 34-2022-00313429

Members of the public shall have up to three (3) minutes to provide public comment on items on the agenda or items not on the agenda, but within the jurisdiction of SMUD. The total time allotted to any individual speaker shall not exceed nine (9) minutes.

Members of the public wishing to inspect public documents related to agenda items may click on the Information Packet link for this meeting on the smud.org website or may call 1-916-732-7143 to arrange for inspection of the documents at the SMUD Headquarters Building, 6201 S Street, Sacramento, California.

ADA Accessibility Procedures: Upon request, SMUD will generally provide appropriate aids and services leading to effective communication for qualified persons with disabilities so that they can participate equally in this meeting. If you need a reasonable auxiliary aid or service for effective communication to participate, please email Toni.Stelling@smud.org, or contact by phone at 1-916-732-7143, no later than 48 hours before this meeting.

SSS No.
SSS No. CZCO 24-006

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date Strategic Development – 04/09/24
Board Meeting Date N/A

TO				TO					
1.	Lora Anguay	6.	Jose Bodipo-Memba						
2.	Brandy Bolden	7.	Farres Everly						
3.	Suresh Kotha	8.							
4.	Frankie McDermott	9.	Legal						
5.	Scott Martin	10.	CEO & General Manager						
Consent Calendar	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No <i>If no, schedule a dry run presentation.</i>	Budgeted	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No <i>(If no, explain in Cost/Budgeted section.)</i>
FROM (IPR) Joyce Hribar	DEPARTMENT Zero Carbon Energy Solutions			MAIL STOP EA405	EXT. 5055	DATE SENT 3/15/2024			

NARRATIVE:

Requested Action: Provide the Board external and internal presentations on the 2030 Zero Carbon Plan: Long Duration Energy Storage (LDES) & Battery Energy Storage System (BESS) Strategy.

Summary: Mike Gravely, Research Program Manager, California Energy Commission (CEC), Joel Ledesma, Director of Power Generation, and James Frasher, Manager, New Business Development, will present the 2030 Zero Carbon Plan progress update on BESS plans and projects.

Topics will include the following:

- CEC LDES Perspective and Efforts Advance LDES Technology
 - Overall landscape of LDES and key challenges
 - CEC perspective on the role LDES can play to reduce/eliminate greenhouse gas (GHG) emissions
 - Overview of projects the CEC is advancing across California
- BESS Overall Progress and Updates
 - ESS Energy Warehouse Project
 - McClellan BESS Project
- A status update on our Virtual Power Plant (VPP) battery storage customer programs and initiatives and options under consideration to grow and expand program participation.

Board Policy: Strategic Direction SD-9, Resource Planning; Strategic Direction SD-10, Innovation
(Number & Title)

Benefits: Discuss and receive input on the 2030 Zero Carbon Plan: Battery Energy Storage System (BESS) Update.

Cost/Budgeted: There is no budgetary impact for this informational presentation.

Alternatives: Receive information via written report through the Chief Executive Officer & General Manager; schedule presentation for another date.

Affected Parties: SMUD leaders, employees, and customers

Coordination: All SMUD Business areas

Presenter: Mike Gravely, Team Lead and Senior Electrical Engineer for the Energy Systems Research Branch, California Energy Commission (CEC)
Joel Ledesma, Director, Power Generation, SMUD
James Frasher, Manager, New Business Development, SMUD

Additional Links:

SUBJECT Long Duration Energy Storage (LDES) & Battery Energy Storage (BESS) Strategy	ITEM NO. (FOR LEGAL USE ONLY)
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ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.



Mike Gravely
California Energy Commission (CEC)
Team Lead and Senior Electrical Engineer for the Energy
Systems Research Branch

Mike Gravely is the Energy Storage Team Lead and Senior Electrical Engineer for the Energy Systems Research Branch at the California Energy Commission. His team is managing over \$400 million in microgrid, energy storage and related energy research and demonstration projects. In this role, he oversees the full spectrum of research activities to improve the California Electric Grid including assessing future energy storage needs for California and addressing the grid related issues associated with integrating higher concentrations of renewables. In 2020, the Energy Commission awarded over \$100 million in state funds and vendor cost-share investments to over 25 new grants to complete research and demonstration projects with new and emerging energy storage technologies. One key area of this research is focused on understanding the capability and value of long duration energy storage solutions (from 10 hours to 100+ hours) to assist California in transitioning to the goal of 100 percent zero-carbon resources by December 31, 2045. His team received \$330M in funding in the FY 2022/2023 and the 2023/2024 State Budget for the fielding of non-lithium-ion long duration energy storage (LDES) technologies. This funding represents the largest investment in field demonstrations for the commercialization advancement of emerging non-lithium-ion LDES in the Nation. Currently, the CEC is investing in six different non-Lithium-Ion technologies in field demonstrations with durations from 8 hours to 100 hours and power rating of up to 10 MWs and energy rating up to 500 MWHs. Most of these demonstrations are expected to be operating in 2024 and 2025.

Mike Gravely has a BSEE from the Virginia Military Institute and an MSEE from California State University at Sacramento. Prior to the Energy Commission, Mike served in executive positions in the Federal Government and private industry including addressing the business challenges of a startup energy storage company. Mike also serves as the Military Advisor and Energy Storage Technology Advisor to Chair Hochschild of the California Energy Commission.

SSS No.
BOD 2024-004

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date STRATEGIC DEVELOPMENT COMMITTEE - 2024
Board Meeting Date N/A

TO				TO			
1.	Frankie McDermott	6.					
2.	Farres Everly	7.					
3.	Jose Bodipo-Memba	8.					
4.	Scott Martin	9.	Legal				
5.		10.	CEO & General Manager				
Consent Calendar		Yes		<input checked="" type="checkbox"/>		No <i>If no, schedule a dry run presentation.</i>	
Budgeted		Yes		<input checked="" type="checkbox"/>		No <i>(If no, explain in Cost/Budgeted section.)</i>	
FROM (IPR) Nancy Bui-Thompson / Crystal Henderson				DEPARTMENT Board Office			
MAIL STOP B304		EXT. 5424		DATE SENT 01/21/24			

NARRATIVE:

Requested Action: A summary of directives is provided to staff during the committee meeting.

Summary: The Board requested an ongoing opportunity to do a wrap up period at the end of each committee meeting to summarize various Board member suggestions and requests that were made at the meeting to make clear the will of the Board. The Strategic Development Committee Chair will summarize Board member requests that come out of the committee presentations for this meeting.

Board Policy: *(Number & Title)* Governance Process GP-4, Board/Committee Work Plan and Agenda Planning states the Board will “[focus] on the results the Board wants the organization to achieve.

Benefits: Having an agendized opportunity to summarize the Board’s requests and suggestions that arise during the committee meeting will help clarify the will of the Board.

Cost/Budgeted: There is no budgetary impact for this item.

Alternatives: Not to summarize the Board’s requests at this meeting.

Affected Parties: Board of Directors and Executive Staff

Coordination: Crystal Henderson, Special Assistant to the Board of Directors

Presenter: Nancy Bui-Thompson, Strategic Development Chair

Additional Links:

SUBJECT Summary of Committee Direction – Strategic Development	ITEM NO. (FOR LEGAL USE ONLY)
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ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.