

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

Date: Tuesday, September 12, 2023

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, September 12, 2023  
SMUD Headquarters Building, Auditorium  
6201 S Street, Sacramento, California  
Scheduled to begin at 6:00 p.m.

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](http://smud.granicus.com/ViewPublisher.php?view_id=16)

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

**Webinar/Meeting ID:** 161 388 8235

**Passcode:** 130477

**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:

- Registering in advance of a meeting by sending an email to [PublicComment@smud.org](mailto:PublicComment@smud.org), making sure to include the commenter's name, date of the meeting, and topic or agenda item for comment. Microphones will be enabled for virtual or telephonic attendees at the time public comment is called and when the commenter's name is announced.
- 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](mailto:PublicComment@smud.org) or by mailing or bringing physical copies to 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.     **Dr. Scott Brandt**                     Brief the Board on the status of SMUD’s Zero Carbon Hydrogen outlook and activities.  
ASSOCIATE VICE PRESIDENT             Presentation: 40 minutes  
OF RESEARCH AND                         Discussion: 35 minutes  
INNOVATION,  
UNIVERSITY OF CALIFORNIA  
OFFICE OF THE PRESIDENT  
AND COO, ALLIANCE FOR  
RENEWABLE CLEAN  
HYDROGEN ENERGY SYSTEM  
(ARCHES)  
  
       **Tom Martz**  
       SENIOR PRINCIPAL TEAM  
       LEAD, LOW-CARBON  
       RESOURCES INITIATIVE,  
       ELECTRIC POWER RESEARCH  
       INSTITUTE (EPRI)  
  
       **Joel Ledesma**
  
2.     **Public Comment**
  
3.     **Nancy Bui-Thompson**             Summary of Committee Direction.  
   Discussion: 1 minute

*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](http://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](mailto:Toni.Stelling@smud.org), or contact by phone at 1-916-732-7143, no later than 48 hours before this meeting.*



# BOARD AGENDA ITEM

## STAFFING SUMMARY SHEET

Committee Meeting & Date Strategic Development – 09/12/23
Board Meeting Date N/A

TO	TO
1. James H. Frasher	6. Jose Bodipo-Memba
2. Lora Anguay	7.
3. Farres Everly	8.
4. Frankie McDermott	9. <b>Legal</b>
5. Scott Martin	10. <b>CEO &amp; General Manager</b>

<b>Consent Calendar</b>		<b>Yes</b>	<input checked="" type="checkbox"/>	<b>No</b> <i>If no, schedule a dry run presentation.</i>	<b>Budgeted</b>		<b>Yes</b>	<input checked="" type="checkbox"/>	<b>No</b> <i>(If no, explain in Cost/Budgeted section.)</i>
FROM (IPR) Joel Ledesma	DEPARTMENT: Power Generation – Zero Carbon Energy Solutions				MAIL STOP EA405	EXT. 5231	DATE SENT 8/22/2023		

**NARRATIVE: Hydrogen/ARCHES Update**

**Requested Action:** Brief the Board on the status of SMUD’s Zero Carbon Hydrogen outlook and activities.

**Summary:** This update will provide the Board with an overview of the current outlook of hydrogen to support the goals of the Zero Carbon Plan. The update will include a presentation by the Electric Power Research Institute (EPRI) and Alliance for Renewable Clean Hydrogen Energy Systems (ARCHES). The presentations will provide an outlook based on EPRI’s research and industry perspective on Hydrogen use in Power Production. ARCHES will provide a status of California H2 Hub grant application with the Department of Energy.

**Board Policy:** Strategic Direction SD-4, Reliability; Strategic Direction SD-9, Resource Planning; Strategic Direction SD-10 Innovation  
*(Number & Title)*

**Benefits:** Increase the Board’s knowledge of hydrogen including technologies involved resource potentials, economic aspects, challenges, and benefits of hydrogen. In addition, the Board will gain understanding about the California ARCHES program and incentives planned to accelerate production, use, and storage which is essential to meet or exceed the goals and objectives of the 2030 Zero Carbon Plan, address climate protection, air quality, energy resilience and sustainable economic growth needs.

**Cost/Budgeted:** N/A – Informational presentation only.

**Alternatives:** N/A – informational presentation only

**Affected Parties:** Enterprise Strategy, Energy Delivery and Operations, Zero Carbon Energy Solutions

**Coordination:** Advanced Energy Solutions R&D, Power Generation, Energy Contracts & Trading, Resource Planning

**Presenter:** Dr. Scott A. Brandt, Associate Vice President of Research and Innovation, University of California Office of the President and COO, Alliance for Renewable Clean Hydrogen Energy System (ARCHES)  
Tom Martz, Sr. Principal Team Lead, Low-Carbon Resources Initiative, EPRI  
Joel Ledesma, Director Power Generation, SMUD

**Additional Links:**

<b>Hydrogen/ARCHES Update</b>	<b>ITEM NO. (FOR LEGAL USE ONLY)</b>
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ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.



**Dr. Scott Brandt**  
**Associate Vice President of Research and Innovation**  
**University of California Office of the President and**  
**COO, Alliance for Renewable Clean Hydrogen Energy System**  
**(ARCHES)**

Dr. Scott Brandt is Associate Vice President of Research and Innovation at the University of California Office of the President and COO of the Alliance for Renewable Clean Hydrogen Energy System (ARCHES). He has been Professor of Computer Science and Engineering at the University of California, Santa Cruz, since 1999, and was UCSC's Vice Chancellor for Research from 2013 to 2021. He has over a hundred research publications and has brought in hundreds of millions in research funding, most recently co-leading a proposal that brought in \$185M from the State of California for a UC-wide climate change initiative. He spent a decade in industry before returning to academia in 1994 to get his PhD. Dr. Brandt led the ARCHES proposal team on behalf of the State of California and has spent much of the past two years developing the ARCHES vision, coalition, plans, and proposal along with the other members of the ARCHES core team and extended network of partners.



**Thomas D. Martz**  
**Electric Power Research Institute, Inc. (EPRI)**  
**Senior Principal Team Lead**  
**Low-Carbon Resources Initiative**

Tom Martz is a Senior Principal Team Lead with EPRI's Low-Carbon Resources Initiative (LCRI). The initiative aims to identify, research, develop, and demonstrate the technology advancements needed to achieve a decarbonized future. The LCRI team focuses on production, transportation, delivery, and end uses of alternative energy carriers and low-carbon fuels such as hydrogen, ammonia, biofuels, and synthetic fuels.

Tom has worked in the power generation industry for over 34 years. Prior to joining LCRI, he led EPRI's continuous emissions monitoring (CEM) program, focusing on development, evaluation, and reliability of fossil power plant stack CEM systems to meet regulatory and process needs. Tom was also part of the Environmental Controls team, specializing in air pollution control systems.

Prior to joining EPRI in 2013, Tom managed air pollution control system design, field optimization and troubleshooting projects on coal and gas-fired boilers, gas turbines, and refinery systems for Mitsubishi Power Systems and Fossil Energy Research Corp.

Tom earned a B.S., Mechanical Engineering from University of California, Irvine.







SSS No.  
BOD 2023-002

# BOARD AGENDA ITEM

## STAFFING SUMMARY SHEET

Committee Meeting & Date 2023
Board Meeting Date N/A

TO	TO
1. Frankie McDermott	6.
2. Jose Bodipo-Memba	7.
3. Scott Martin	8.
4. Farres Everly	9. <b>Legal</b>
5.	10. <b>CEO &amp; General Manager</b>

<b>Consent Calendar</b>		<b>Yes</b>	x	<b>No</b> <i>If no, schedule a dry run presentation.</i>	<b>Budgeted</b>		<b>Yes</b>	<b>No</b> <i>(If no, explain in Cost/Budgeted section.)</i>
FROM (IPR) Nancy Bui-Thompson/Special Assistant to the Board	DEPARTMENT Board Office				MAIL STOP B307	EXT. 5079	DATE SENT 12/27/22	

**NARRATIVE:**

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

**Summary:** The Board requested an on-going 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 in an effort to make clear the will of the Board. The Committee Chair will summarize Board member requests that come out of the committee presentations for this meeting.

**Board Policy:** GP-4 Agenda Planning states the Board will focus on the results the Board wants the organization to achieve.  
*(Number & Title)*

**Benefits:** Having an agenda opportunity to summarize the Board's requests and suggestions that arise during the committee meeting will help clarify what the will of the Board.

**Cost/Budgeted:** Included in budget

**Alternatives:** Not summarize the Board's requests at this meeting.

**Affected Parties:** Board of Directors and Executive Staff

**Coordination:** Special Assistant to the Board

**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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