

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

Date: Tuesday, October 11, 2022
Time: Scheduled to begin at 5:30 p.m.
Location: Virtual Meeting, Online

Powering forward. Together.



AGENDA

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

Tuesday, October 11, 2022

Scheduled to begin at 5:30 p.m.

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

Webinar/Meeting ID: 160 988 1149

Passcode: 979660

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

Pursuant to Government Code section 54953(e) and the Emergency Board Meeting Procedures adopted by the SMUD Board of Directors, the regular Board meeting and other public meetings are currently conducted solely via virtual (online/teleconference) meeting to align with state, local, and federal guidelines for the containment of the coronavirus.

Live video streams and indexed archives of meetings are available at:

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

Members of the public may register to provide verbal comments at an upcoming Board or Committee meeting by emailing a request to speak to PublicComment@smud.org. Please include the date of the meeting, name, and topic or agenda item the requestor wishes to speak on. The request may also be submitted while the meeting is in progress during the standard time for the agenda item or topic. **Pre-registration is strongly encouraged by no later than 3:00 p.m. on the day of the meeting.**

Members of the public may provide written public comments on a specific agenda item or on items not on the agenda (general public comment) by submitting comments via e-mail. Comments may be submitted to PublicComment@smud.org and will be placed into the record of the meeting.

Members of the public that are listening to or watching the live stream of a Committee meeting and wish to submit written comments on a specific agenda item as it is being heard may submit their comments, limited to 250 words or less, to PublicComment@smud.org, noting the agenda item number in the subject line. The Committee Chair may read comments for items on the agenda into the record, in her discretion, based upon such factors as the length of the agenda or the number of e-mail comments received. General public comment for items not on the agenda will not be read into the record but will be provided to the Board and placed into the record of the Board meeting if it is received within two hours after the meeting ends.

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:

INFORMATIONAL ITEMS

1. Bryan Swann Provide the Board with external presentations followed by a panel discussion with Q&A on Fusion Technology.

Presenters and Panel Participants:

Dr. Scott Hsu, Senior Advisor to the Under Secretary for Science and Innovation and Lead Fusion Coordinator, US DEPARTMENT OF ENERGY (DOE)

Steven Cowley, Professor of Astrophysical Sciences, Laboratory Director,
PRINCETON PLASMA PHYSICS LABORATORY, PRINCETON UNIVERSITY

Doug Larson, Director of the National Ignition Facility (NIF) and Principal Deputy Principal Associate Director for the NIF & Photon Science Directorate, LAWRENCE LIVERMORE NATIONAL LABORATORY
Presentation: 30 minutes
Discussion: 15 minutes

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

Pursuant to Resolution No. 20-06-08 adopted on June 18, 2020, Emergency Board Meeting Procedures are in effect:

Members of the public may make either a general public comment or comment on a specific agenda item by submitting comments via email. Comments may be submitted to PublicComment@smud.org. Comments will be provided to the Board and placed into the record of the Committee meeting if it is received within two hours after the meeting ends.

Members of the public that are listening or watching the live stream of a Board meeting and wish to comment on a specific agenda item as it is being heard, may submit their comments, limited to 250 words or less, to PublicComment@smud.org. The Board Committee Chair may read the comments into the record, in her discretion, based upon such factors as the length of the agenda or the number of email comments received. Comments will be provided to the Board and placed into the record of the Committee meeting if it is received within two hours after the meeting ends.

*Members of the public may register to provide verbal comments at an upcoming Board or Committee meeting by emailing a request to speak to PublicComment@smud.org. Please include the date of the meeting, name, and topic or agenda item the requestor wishes to speak on. The request may also be submitted while the meeting is in progress during the standard time for the agenda item or topic. **Pre-registration is strongly encouraged by no later than 3:00 p.m. on the day of the meeting.***

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 virtual 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 (916) 732-7143, no later than 48 hours before this virtual meeting.

SSS No. RS 22-007

BOARD AGENDA ITEM STAFFING SUMMARY SHEET

Committee Meeting & Date Strategic Development Committee; October 11, 2022
Board Meeting Date n/a

TO				TO					
1.	Bryan Swann			6.					
2.	Scott Martin			7.					
3.	Frankie McDermott			8.					
4.	Farres Everly			9.	Legal				
5.				10.	CEO & General Manager				
Consent Calendar		Yes	No <i>If no, schedule a dry run presentation.</i>	Budgeted		Yes	No <i>(If no, explain in Cost/Budgeted section.)</i>		
FROM (IPR) Bryan Swann				DEPARTMENT Resource Strategy			MAIL STOP B205	EXT. 5534	DATE SENT 09/16/2022

NARRATIVE:

Requested Action: Provide the Board with external presentations followed by a panel discussion with Q&A on Fusion Energy.

Summary: Fusion Energy experts from the U.S. Department of Energy Office of the Under Secretary for Science and Innovation, the Princeton Plasma Physics Laboratory, and the Lawrence Livermore National Laboratory National Ignition Facility will be presenting a panel discussion on October 11, 2022 regarding fusion energy. Panelists will present the history of fusion energy, basic information about the technology, recent advancements, programs and funding focused on advancing the technology, and future expectations for fusion energy.

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

Benefits: Increase the Board's knowledge of Fusion Energy including current technology status and efforts to advance it, and future possibilities for this technology to help SMUD achieve its clean energy goals.

Cost/Budgeted: This informational item has no direct budgetary impact.

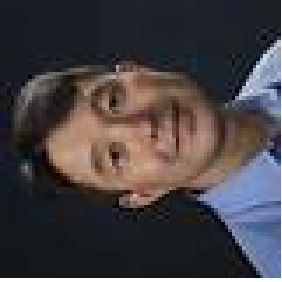
Alternatives: Do not hold the panel discussion.

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

Coordination: Resource Strategy

Presenter: Bryan Swann, Director, Resource Strategy
Dr. Scott Hsu, Senior Advisor to the Under Secretary for Science and Innovation and Lead Fusion Coordinator, US Department of Energy (DOE)
Steven Cowley, Professor of Astrophysical Sciences, Laboratory Director, Princeton Plasma Physics Laboratory, Princeton University
Doug Larson, Director of the National Ignition Facility (NIF) and Principal Deputy Principal Associate Director for the NIF & Photon Science Directorate, Lawrence Livermore National Laboratory

Additional Links:



Dr. Scott Hsu
U.S. Department of Energy (DOE)
Senior Advisor to the Under Secretary for Science and
Innovation and Lead Fusion Coordinator

Scott C. Hsu is a Senior Advisor to the Under Secretary for Science and Innovation at the U.S. Department of Energy (DOE) and Lead Fusion Coordinator for DOE's efforts to accelerate fusion energy research, development, demonstration, and commercialization in partnership with the private sector. Before this, Scott was a Program Director at DOE's Advanced Research Projects Agency-Energy (ARPA-E), where he led and managed its fusion-energy R&D portfolio. And before that, Scott was a plasma and fusion research scientist at Los Alamos National Laboratory. Scott has authored or co-authored more than 80 peer-reviewed publications, is a Fellow of the American Physical Society (APS), and a co-recipient of the 2002 APS Award for Excellence in Plasma Physics Research. Scott earned a Ph.D. in Astrophysical Sciences (Program in Plasma Physics) from Princeton University and a B.S. summa cum laude in Electrical Engineering from UCLA.



Steven Cowley
Princeton University
Princeton Plasma Physics Laboratory (PPPL)
Professor of Astrophysical Sciences

Professor Steven Cowley, a theoretical physicist and international authority on fusion energy, became the seventh Director of the Princeton Plasma Physics Laboratory in 2018, and a Princeton professor of astrophysical sciences. He was president of Corpus Christi College and professor of physics at the University of Oxford in the United Kingdom from 2016 to 2018. Cowley was chief executive officer of the United Kingdom Atomic Energy Authority (UKAEA) and head of the Culham Centre for Fusion Energy from 2008 to 2016. He was knighted by Queen Elizabeth in 2018 “for services to science and the development of nuclear fusion.” Steve earned his doctorate in astrophysical sciences at Princeton University and was a staff scientist at PPPL from 1987 to 1993. He is a member of the Royal Society and of the Royal Academy of Engineering. He won a scholarship to Corpus Christi College, graduating with a bachelor’s degree in physics in 1981. He went on to study plasma physics at Princeton University as a Harkness Fellow and graduated with a Ph.D. in 1985.



Doug Larson

**Lawrence Livermore National Laboratory (LLNL)
Director of the National Ignition Facility (NIF) and principal
deputy principal associate director for the NIF & Photon Science
Directorate**

Doug Larson is the Director of the National Ignition Facility (NIF) at Lawrence Livermore National Laboratory (LLNL). Doug works closely with NIF's users at LLNL, partner Laboratories, and the Department of Energy's National Nuclear Security Administration (NNSA) to execute a mission-impactful experimental program on the NIF including the pursuit of fusion ignition and gain.

Doug has nearly 40 years of experience working on laser and fusion research and development. He is an experienced pulsed power engineer and project manager with experience in LLNL's magnetic and inertial fusion programs, many roles in the construction and operation of the NIF. Doug has a degree in electrical engineering from the University of New Mexico.

SSS No.
BOD 2021-023

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date 2022
Board Meeting Date N/A

TO	TO
1. Frankie McDermott	6.
2. Farres Everly	7.
3. Scott Martin	8.
4.	9. Legal
5.	10. CEO & General Manager

Consent Calendar		Yes	x	No <i>If no, schedule a dry run presentation.</i>	Budgeted		Yes	No <i>(If no, explain in Cost/Budgeted section.)</i>
FROM (IPR) Nancy Bui-Thompson / Donna Lofton	DEPARTMENT Board Office			MAIL STOP B307	EXT. 5079	DATE SENT 12/21/2021		

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 Policy 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: N/A

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

Affected Parties: Board of Directors and Executive Staff

Coordination: Donna Lofton, Special Assistant to the Board

Presenter: Nancy Bui-Thompson, Strategic Development Committee Chair

Additional Links:

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