Board of Directors Meeting Agenda

Date: October 20, 2022

Time: 5:30 p.m.

Location: Virtual Meeting (online)





AGENDA

SACRAMENTO MUNICIPAL UTILITY DISTRICT BOARD OF DIRECTORS MEETING

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 e-mailing 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 Board 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 Board President may read comments for items on the agenda into the record, in his 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.

October 20, 2022 - 5:30 p.m.

Zoom Webinar Link: Join SMUD Board of Directors Meeting Here

Webinar/Meeting ID: 161 365 4516 **Passcode:** 648099

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

Call to Order.

a. Roll Call.

1. Approval of the Agenda.

- 2. Committee Chair Reports.
 - a. Committee Chair report of October 11, 2022, Strategic Development Committee
 - b. Committee Chair report of October 12, 2022, Policy Committee
 - c. Committee Chair report of October 18, 2022, Finance and Audit Committee
 - d. Committee Chair report of October 19, 2022, Energy Resources & Customer Services Committee

Items 5 through 8 were reviewed by the October 12, 2022, Policy Committee. Items 9 through 15 were reviewed by the October 18, 2022, Finance and Audit Committee. Items 16 through 18 were reviewed by the October 19, 2022, Energy Resources & Customer Services Committee.

Comments from the public are welcome when these agenda items are called.

Consent Calendar:

- 3. Approve Board member compensation for service rendered at the request of the Board (pursuant to Resolution 18-12-15) for the period of September 16, 2022, through October 15, 2022.
- 4. Approval of the minutes of the meeting of September 15, 2022.
- 5. Make findings pursuant to Government Code section 54953(e) to continue holding meetings virtually during proclaimed state of emergency (recurring item, every 30 days). Policy Committee 10/12. (Laura Lewis)
- 6. Accept the monitoring report for **Strategic Direction SD-6**, **Safety Leadership**. Policy Committee 10/12. (<u>Frankie McDermott</u>)
- 7. Accept the monitoring report for **Strategic Direction SD-10**, **Innovation**. **Policy Committee 10/12**. (Lora Anguay)
- 8. Accept the monitoring report for **Strategic Direction SD-19**, **Diversified Business**. Policy Committee 10/12. (Scott Martin)
- 9. Accept the monitoring report for **Strategic Direction SD-13**, **Economic Development Policy**. Finance and Audit Committee 10/18. (<u>Dr. Markisha Webster</u>)
- 10. Discuss the policy and process for **Strategic Direction SD-14**, **System Enhancement** (SD-14) and accept the monitoring report for SD-14. Finance and Audit Committee 10/18. (Frankie McDermott)
- 11. Approve amendment to the SMUD **2022 Budget Resolution** to augment the Commodity line item by \$309.3 million. **Finance and Audit Committee 10/18.** (Jennifer Davidson)
- 12. Approve an increase to the aggregate contract not-to-exceed amount for fleet bulk fuel and fleet fuel card program services by \$12,481,000, from \$16 million to \$28.48 million, for Contract Nos. 4600001005 and 4500097459 with Ramos Oil Company, Inc. Finance and Audit Committee 10/18. (Jennifer Davidson)

- 13. Approve an increase to the aggregate contract not-to-exceed amount for general line construction services by \$20 million, from \$20 million to \$40 million, for Contract No. 4600001474 with Hot Line Construction, Inc. and Contract No. 4600001475 with Mountain G Enterprises. Finance and Audit Committee 10/18. (Jennifer Davidson)
- 14. Approve an increase to the aggregate contract not-to-exceed amount for **Upper American River Project (UARP)** Reservoir Project Wildfire Risk Reduction services by \$5 million, from \$8 million to \$13 million, for Contract No. 4600001538 with **TSU-Tree Service Unlimited, Inc.**, Contract No. 4600001539 with **Mountain F. Enterprises, Inc.**, and Contract No. 4600001540 with **The Original Unlimited Tree Service Co.** Finance and Audit Committee 10/18. (Jennifer Davidson)
- 15. a. Approve contract change to Contract No. 4500110473 with **United Health Care Insurance Company** approving 2023 medical insurance premium rates and extending the contract by one year for the period January 1, 2023, through December 31, 2023; 2023 cost estimated at \$37.4 million; and
 - b. Approve contract change to Contract No. 4500043215 with **Kaiser Permanente** approving 2023 medical insurance premium rates and extending the contract by one year for the period January 1, 2023, through December 31, 2023; 2023 cost estimated at \$27.8 million.

Finance and Audit Committee 10/18. (Dr. Markisha Webster)

- 16. Initiate consideration of two new federal standards in accordance with the **Public Utility Regulatory Policies Act of 1978 (PURPA)**: Demand-Response Practices (Section 111(d)(20)) and Electric Vehicle Charging Programs (Section 111(d)(21)). **Energy Resources & Customer Services Committee 10/19**. (Laura Lewis)
- 17. Accept the monitoring report for **Strategic Direction SD-7**, **Environmental Leadership**. Energy Resources & Customer Services Committee 10/19. (<u>Frankie McDermott</u>)
- 18. Accept the monitoring report for **Strategic Direction SD-9**, **Resource Planning**. **Energy** Resources & Customer Services Committee 10/19. (Scott Martin)

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Informational Item:

19. Provide the Board with SMUD's financial results from the eight-month period ended August 31, 2022.

Presenter: Lisa Limcaco

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Public Comment:

20. Items not on the agenda.

Board and CEO Reports:

- 21. Directors' Reports.
- 22. President's Report.
- 23. CEO's Report.
 - a. Board Video

Summary of Board Direction

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FOLLOWING ADJOURNMENT OF THE FOREGOING SMUD BOARD OF DIRECTORS MEETING, A SPECIAL MEETING OF THE FOLLOWING JOINT POWERS AGENCY WILL CONVENE:

SACRAMENTO MUNICIPAL UTILITY DISTRICT FINANCING AUTHORITY

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<u>Board Committee Meetings and Special Meetings of the Board of Directors are held at the SMUD Headquarters Building, 6201 S Street, Sacramento</u>

The SMUD Board of Directors is currently operating under Emergency Board Meeting Procedures. In accordance with findings made by the Board pursuant to Government Code section 54953(e), these meetings may be held virtually (online).

October 18, 2022	Finance and Audit Committee and Special SMUD Board of Directors Meeting	TBD	5:30 p.m.
October 19, 2022	Energy Resources & Customer Services Committee and Special SMUD Board of Directors Meeting	TBD	5:30 p.m.
November 15, 2022	Finance and Audit Committee and Special SMUD Board of Directors Meeting	TBD	5:30 p.m.
November 15, 2022	Energy Resources & Customer Services Committee and Special SMUD Board of Directors Meeting	TBD	Immediately following the Finance and Audit Committee and Special SMUD Board of Directors Meeting scheduled to begin at 5:30 p.m.

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2023 Budget Review

The SMUD Board of Directors is currently operating under Emergency Board Meeting Procedures. In accordance with findings made by the Board pursuant to Government Code section 54953(e), these meetings may be held virtually (online).

November 8, 2022

SMUD 2023 Proposed Budget.

TBD

5:30 p.m.

- a. SMUD 2023 Proposed Budget Overview, including Debt Service, Pay Schedule and Special Compensation, and Corporate Services 2023 Proposed Budget.
- b. Energy Delivery & Operations 2023 Proposed Budget.

November 9, 2022

2023 Proposed SMUD Budget.

TBD

5:30 p.m.

- a. Zero Carbon Energy Solutions 2023 Proposed Budget.
- b. Customer & Community Services 2023 Proposed Budget.
- c. Information Technology 2023 Proposed Budget.

2023 Proposed Joint Power Authority Budgets.

- a. Northern California Energy Authority (NCEA) 2023 Proposed Budget.
- b. Northern California Gas Authority
 Number 1 (NCGA1) 2023 Proposed
 Budget.
- Sacramento Municipal Utility District Financing Authority (SFA) 2023 Proposed Budget.

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Regular Meetings of the Board of Directors are held at the SMUD Headquarters Building, 6201 S Street, Sacramento

The SMUD Board of Directors is currently operating under Emergency Board Meeting Procedures. In accordance with findings made by the Board pursuant to Government Code section 54953(e), these meeting may be held virtually (online).

November 17, 2022

TBD

5:30 p.m.

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 Board 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 President may read the comments into the record, in his discretion, based upon such factors as the length of the agenda, the number of email comments received, and whether the Board is in danger of losing a quorum. Comments 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.

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.



RESOLUTION NO.					

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

That this Board hereby approves Board member compensation for service rendered at the request of the Board (pursuant to Resolution 18-12-15) for the period of September 16, 2022, through October 15, 2022.

DRAFT

Sacramento, California

September 15, 2022

The Board of Directors of the Sacramento Municipal Utility District met in <u>regular</u> session via virtual meeting (online) at 5:29 p.m.

Roll Call:

Presiding: President Rose

Present: Directors Bui-Thompson, Fishman, Herber,

Kerth, Tamayo, and Sanborn

Present also were Laura Lewis, acting Chief Executive Officer and General Manager; Joe Schofield, Deputy General Counsel and Assistant Secretary, and members of SMUD's executive management; and SMUD employees and visitors.

Director Tamayo shared the environmental tip.

President Rose called for approval of the agenda. Director Kerth moved for approval of the agenda, Director Herber seconded, and the agenda was unanimously approved.

Director Herber, Chair, presented the report on the Finance and Audit Committee meeting held on September 13, 2022.

Director Fishman, Chair, presented the report on the Energy
Resources & Customer Services Committee meeting held on September 14,
2022.

President Rose then called for public comment for items on the agenda, but none were forthcoming.

President Rose then addressed the consent calendar consisting of Items 3 and 9. Director Bui-Thompson moved for approval of the consent calendar, Director Fishman seconded, and Resolution Nos. 22-09-01 through 22-09-06 were unanimously approved.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

That this Board hereby approves Board member compensation for service rendered at the request of the Board (pursuant to Resolution 18-12-15) for the period of August 16, 2022, through September 15, 2022.

Approved: September 15, 2022

INTRODUCED: DIRECTOR BUI-THOMPSON				
SECONDED: DIRECT	TOR FISH	MAN		
DIRECTOR	AYE	NO	ABSTAIN	ABSENT
ROSE	Х			
BUI-THOMPSON	х			
FISHMAN	Х			
HERBER	Х			
KERTH	Х			
TAMAYO	Х			
SANBORN	Х			

WHEREAS, in September 2019, the Legislature approved
Assembly Bill 689 amending section 12773 of the California Public Utilities Code
("MUD Act") effective January 1, 2020, to January 1, 2025, granting SMUD
authority to hold nonstock security in a corporation or other private entity if the
security is acquired as part of a procurement of goods or services from that
entity, provided no separate funding is expended solely for the nonstock security,
and not more than three nonstock security acquisitions are made during the
effective period; and

WHEREAS, by Resolution No. 20-12-11, adopted on December 10, 2020, this Board authorized SMUD to operate a pilot project and policy governing the acquisition of nonstock security, the Nonstock Security Pilot Project Program ("Policy"), from January 1, 2020, to January 1, 2025; and

WHEREAS, SMUD policy for the acquisition of nonstock security is set forth in the Policy guidelines and minor changes to the guidelines are requested in Section 2. Definitions to define "Financial Interest" (which had previously been undefined); and

WHEREAS, Section 3. Conflict of interest of the Policy includes detailed requirements to address the Legislature's concern of financial self-dealing, as it may relate to SMUD's authority to acquire nonstock security; and WHEREAS, as currently written, Section 3. may broadly prevent SMUD from using reasonable and lawful due diligence to determine whether to

WHEREAS, staff's recommendation is to revise Section 2. of the Policy to define "Financial Interest" and Section 3. of the Policy to clarify the strict parameters under which SMUD may use non-public information, and to ensure the Policy both allows for informed acquisition of the nonstock security while affirmatively prohibiting insider trading; NOW, THEREFORE,

enter into a particular acquisition; and

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

Section 1. This Board approves the revisions to Section 2.

Definitions and Section 3. Conflict of interest of the Nonstock Security Pilot

Project Program ("Policy"), substantially in the form as set forth in

Attachment A, with all other **Policy** provisions remaining in full force and effect.

Approved: September 15, 2022

INTRODUCED: DIRECTOR BUI-THOMPSON					
SECONDED: DIRECT	SECONDED: DIRECTOR FISHMAN				
DIRECTOR	AYE	NO	ABSTAIN	ABSENT	
ROSE	Х				
BUI-THOMPSON	х				
FISHMAN	Х				
HERBER	Х				
KERTH	Х				
TAMAYO	Х				
SANBORN	Х				

Nonstock Security Pilot Project Program Sacramento Municipal Utility District

Pilot Project Program Description

1. <u>Purpose:</u> To provide an opportunity for a return on investment from SMUD's contribution to the development of goods or services procured from a corporation or private entity, consistent with Strategic Directives (SD-10: Innovation, SD-13: Economic Development, and SD-19: Diversified Business).

2. **Definitions:**

<u>Acquisition</u> – An act of obtaining an asset.

<u>Financial Interest</u> – Any monetary interest that is equal to or exceeds the ownership of 3 percent of the shares of a corporation for profit, provided that the total annual income to them from dividends, including the value of stock dividends, from the corporation does not exceed 5 percent of their total annual income, and any other payments made to them by the corporation do not exceed 5 percent of their total annual income.

Nonstock Security – A "security," as defined in Section 25019 of the California Corporations Code, that is not a stock.

<u>Stock</u> – A distinct type of security that specifically includes an ownership interest in a corporation, where the owner is entitled to participate in: (i) the company's management (e.g., has a voting right); (ii) a proportionate share of profits; and (iii) distribution of assets upon dissolution of the company. Its unit of measurement is the share.

- 3. Conflict of interest: To avoid any potential conflict or perceived conflict of interest and to prevent violations of applicable conflict of interest rules including Cal. Gov't Code § 1090, et seq.; the Political Reform Act (Cal. Gov't Code § 81000, et seq.); and the Fair Political Practices Commission Regulations (Cal. Code of Regulations § 18700, et seq.), SMUD shall not enter into an agreement to acquire a nonstock security interest in a corporation or private entity under any of the following situations:
 - a. A board member, or spouse or dependent child of the board member, has a financial interest in the corporation or private entity.

- b. A board member, or spouse or dependent child of the board member, has a personal or familial relationship with any officer or employee of the corporation or private entity.
- c. An executive officer of SMUD, or spouse or dependent child of the officer, has a financial interest in the corporation or private entity.

Board members and certain other SMUD staff are each to file annually a Statement of Economic Interests (Form 700) to ensure that those public agency officials are disclosing certain financial interests in a manner that is transparent. It also serves as a reminder for public agency officials and employees to abstain from participating in decisions, including agreements, that could enhance their personal finances in a manner that is inconsistent with law or policy.

Prior to entering into an acquisition agreement, SMUD shall review Board members' most recent financial disclosure filing for potential financial conflicts of interest related to the acquisition.

Further, existing federal and state laws prohibit individuals from purchasing or selling a security when that individual knows material, non-public information about a company which would significantly affect the market price of the security in that company (e.g., company stock price). To avoid any appearance or accusation of insider trading, SMUD shall not use such material non-public information for any purpose other than to evaluate the proposed transaction including, but not limited to, the acquisition of nonstock security interest in such corporation or private entity. In addition, SMUD shall not trade (purchase or sell) the securities of such corporation or private entity so long as it is in possession of such material information that has not first been made public.

- **4.** <u>Determination of how much of nonstock security to accept:</u> Prior to SMUD's acquiring any nonstock security, the Business Unit initiating the procurement of the underlying goods or services shall, in consultation with New Business Development and Treasury Departments, ensure that:
 - a. SMUD, overall, receives a reasonable return for SMUD's investment, considering, at a minimum, the value of the following: (i) use of any SMUD intellectual property; (ii) SMUD's investment of staff time; and (iii) use of SMUD facilities for field testing; and
 - b. The value of the nonstock security acquisition does not unduly influence the amount paid for the associated goods and services.

- **5.** Payment of associated goods or services: SMUD may only hold nonstock security in a corporation or private entity if acquired as part of a procurement of goods or services from that entity. The price paid for such goods or services should not be increased due to the availability of acquiring nonstock security in that corporation or private entity. SMUD is not "purchasing" the nonstock security, so no cash will be exchanged solely for the acquisition of the nonstock security. Any acquisition of nonstock security is incidental to the procurement of goods or services.
- **6.** <u>Approval for acquisition:</u> The Chief Executive Officer and General Manager shall seek Board approval prior to entering into an acquisition agreement.
- 7. Reporting to the Board: Staff shall report annually to the Board on the status of this Pilot Project Program and any related acquisitions.
- 8. Management of Security: All decisions and administrative actions concerning the management of any security issued to SMUD by a corporation or other private entity shall be recommended by the Chief Financial Officer or her delegee and approved by the Board. This includes decisions on when the security will be exercised or converted to cash. The Chief Financial Officer shall carry out this function consistent with her delegated investment authority.
- **9.** <u>Distribution of Security Interest:</u> Upon such time that SMUD's security interest is sold for cash, the proceeds will be received and recorded by SMUD accounting, indicating the source of funds. SMUD's subsequent use of any cash proceeds shall be in accordance with SMUD policies and to benefit SMUD ratepayers.
- **10.** <u>Related Reference</u>: SD-10 Innovation; SD-13 Economic Development; SD-19 Diversified Business; BL-8 Procurement; BL-14 Products, Services and Programs

WHEREAS, by Resolution No. 20-12-11, adopted on December 10, 2020, and pursuant to California Public Utilities Code section 12773 (the "MUD Act"), this Board established SMUD's Nonstock Security Pilot Project

Program whereby SMUD may hold nonstock security in a corporation or other private entity if acquired as part of a procurement of goods or services from that entity; and

WHEREAS, SMUD is poised to enter into a new strategic collaboration with ESS Tech, Inc. (ESS), in accordance with Board-Staff Linkage BL-14, Delegation to the Chief Executive Officer and General Manager with Respect to Products, Services and Programs (BL-14) to accelerate the adoption of long duration energy storage technology in SMUD's service territory in support of SMUD's 2030 Zero Carbon Plan; and

WHEREAS, as part of SMUD's procurement of ESS technology and equipment, SMUD will acquire nonstock security in ESS in compliance with the requirements contained in SMUD's Nonstock Security Pilot Project Program; and

WHEREAS, ESS designs, builds and deploys environmentally sustainable, low-cost iron flow batteries for long-duration commercial and utility scale energy storage applications requiring flexible energy capacity; and

WHEREAS, the goals of the collaboration with ESS include neighborhood and critical infrastructure resiliency, reducing thermal generation, maximizing local solar generation and utilization, and supporting workforce development; and

WHEREAS, under the joint collaboration agreement, SMUD and ESS will work together on a multi-year project that may culminate in an aggregate phased deployment of up to 200MW/2GWh of long duration energy storage by 2028; and

WHEREAS, this Board finds the collaboration with ESS and associated acquisition of nonstock security to be consistent with the public purpose of SMUD, as a Municipal Utility District; and

WHEREAS, this Board finds the nonstock security acquisition in ESS, as part of the procurement of ESS equipment and services, is in the best interests of SMUD, its ratepayers and the community as it will (1) promote carbon reduction, clean energy, and other environmentally sustainable technologies that will help foster a better environment for the Sacramento community and beyond, (2) fairly compensate ratepayers for their community investment in such technologies by creating a revenue stream that may potentially offset future rate increases, and (3) encourage economic development which may lead to job growth in the Sacramento region; NOW, THEREFORE,

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

Section 1. That this Board authorizes the Chief Executive Officer and General Manager, or his designee, to enter into a joint collaboration agreement with **ESS Tech, Inc. (ESS)** to accelerate adoption of long duration energy storage technology in SMUD's service territory.

Section 2. That this Board authorizes the Chief Executive Officer and General Manager, or his designee, to enter into, on behalf of SMUD, an acquisition agreement for nonstock security in **ESS**, subject to the requirements of California Public Utilities Code section 12773.

Section 3. The Chief Executive Officer and General Manager, or his designee, is authorized to make future changes to the agreements that, in his prudent judgment: (a) further the primary purpose of the agreements; (b) are intended to provide a net benefit to SMUD; and (c) for, the acquisition agreement, do not exceed the authorized amounts stated in California Public Utilities Code section 12773.

Approved: September 15, 2022

INTRODUCED: DIRECTOR BUI-THOMPSON				
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DIRECTOR	AYE	NO	ABSTAIN	ABSENT
ROSE	Х			
BUI-THOMPSON	Х			
FISHMAN	Х			
HERBER	Х			
KERTH	Х			
TAMAYO	х			
SANBORN	Х			

WHEREAS, Community Choice Aggregation (CCA) was created in California by Assembly Bill 117 (2002), which authorized local governments to aggregate customer electric load and purchase electricity for customers in the service territories of investor-owned utilities; and

WHEREAS, Marin Clean Energy (MCE) is a CCA established in 2010 by a joint powers authority which serves approximately 588,000 residential and commercial electricity customers across a service area comprised of 37 communities in four counties: Contra Costa, Marin, Napa, and Solano; and

WHEREAS, for more than 75 years as a community-owned electric utility, SMUD has performed many of the same services for our own service territory required by MCE, and since 2018 has provided similar services for other CCAs include Valley Clean Energy (VCE) and East Bay Community Energy (EBCE); and

WHEREAS, SMUD submitted a comprehensive proposal in response to a Request for Proposals for services including data management, billing, analytics, systems assessment and other related consulting services; and

WHEREAS, MCE selected SMUD as the winner on July 5, 2022, and the MCE Board's vote to award SMUD the contract is scheduled for September 15, 2022; and

WHEREAS, staff believes providing MCE services will present both net financial benefits for SMUD, as well as foster public power and regional clean energy solutions; and

WHEREAS, the proposed services leverage the systems and services already in place for VCE and EBCE, which contribute to increased net revenue for SMUD and economies of scale in our CCA service offerings; and

WHEREAS, SMUD will ensure that our financial viability, internal operations, and customer service portfolios are not adversely affected by providing MCE services; and

WHEREAS, the Municipal Utility District Act (MUD Act) grants

SMUD broad authority to provide services related to light, heat, and power, and

take all acts necessary and convenient for the full exercise of the powers therein; and

WHEREAS, the MUD Act authorizes SMUD to provide competitive services and commodities within or outside of our service territory; and

WHEREAS, providing services to MCE to meet their energy objectives is a valid exercise of SMUD's authority; and

WHEREAS, SMUD will ensure that our financial viability, internal operations, and customer service portfolio are not adversely affected by providing MCE services; NOW, THEREFORE,

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

Section 1. The Chief Executive Officer and General Manager, or his designee, is authorized to enter into a contract with the Marin Clean Energy (MCE) to provide Community Choice Aggregation (CCA) data management and related services.

Section 2. The Chief Executive Officer and General Manager, or his designee, is authorized to enter into vendor contracts to facilitate the ongoing operations of **MCE** provided that no individual contract shall exceed \$1 million.

Approved: September 15, 2022

INTRODUCED: DIRECTOR BUI-THOMPSON				
SECONDED: DIRECT	TOR FISHI	MAN		
DIRECTOR	AYE	NO	ABSTAIN	ABSENT
ROSE	Х			
BUI-THOMPSON	Х			
FISHMAN	Х			
HERBER	Х			
KERTH	Х			
TAMAYO	х			
SANBORN	Х			

WHEREAS, Community Choice Aggregation (CCA) was created in California by Assembly Bill 117 (2002), which authorized local governments to aggregate customer electric load and purchase electricity for customers in the service territories of investor-owned utilities; and

WHEREAS, since 2018, SMUD has provided data management services to CCAs, including Valley Clean Energy and East Bay Community Energy, and plans to expand such services to Marin Clean Energy and potentially other CCAs in the future; and

WHEREAS, in conjunction with the provision of data management services, SMUD has entered into contracts for technology platform subscription services (Agreements) to support SMUD's CCA business; and

WHEREAS, the original subscription terms of these Agreements are approaching expiration and these Agreements are critical to maintaining the CCA business; and

WHEREAS, leveraging existing systems and services contributes to increased net revenue for SMUD and economies of scale in our CCA service offerings; and

WHEREAS, transitioning at this time from separate CCA-specific delegations to a general CCA delegation for technology platform subscription services contracts is in the best interests of SMUD; and

WHEREAS, staff recommends entering into contracts for technology platform subscription services until such time as it is determined to be in the best interests of SMUD to change or no longer support the CCA business model; and

WHEREAS, subscription fees for future years will be approved by the Board as part of the annual budget; NOW, THEREFORE,

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

Section 1. That this Board authorizes the Chief Executive Officer and General Manager, or his designee, to negotiate and enter into Community

Choice Aggregation (CCA) technology platform subscription services that support all CCAs for whom SMUD provides services.

Section 2. Subscription fees for future years will be approved by this Board with the approval of the annual budget.

Approved: September 15, 2022

INTRODUCED: DIRECTOR BUI-THOMPSON				
SECONDED: DIREC	SECONDED: DIRECTOR FISHMAN			
DIRECTOR	AYE	NO	ABSTAIN	ABSENT
ROSE	Х			
BUI-THOMPSON	Х			
FISHMAN	Х			
HERBER	Х			
KERTH	Х			
TAMAYO	Х			
SANBORN	Х			

WHEREAS, SMUD is committed to preserving public access and participation in meetings of the Board of Directors and to the safety of meeting attendees; and

WHEREAS, all meetings of the Board of Directors are open and public, as required by the Ralph M. Brown Act (Gov't Code, §§ 5495054963) ("Brown Act"), so that any member of the public may attend, participate in, and watch SMUD's governing body conduct its business; and

WHEREAS, the newly enacted Government Code section 54953(e) authorizes a local agency's governing body, during a proclaimed state of emergency, to participate in its public meetings using remote teleconferencing without compliance with the requirements of Government Code section 54953(b)(3), under specified conditions; and

WHEREAS, a required condition is that a state of emergency is declared by the Governor pursuant to Government Code section 8625, proclaiming the existence of conditions of disaster or of extreme peril to the safety of persons and property within the state caused by conditions as described in Government Code section 8558; and

WHEREAS, another condition is that state or local officials have imposed or recommended measures to promote social distancing, or, the legislative body determines that meeting in person would present imminent risks to the health and safety of attendees; and

WHEREAS, on February 28, 2022, the California Department of Public Health rescinded the mask requirement effective March 1, 2022, for all individuals regardless of vaccination status and instead issued a strong recommendation that all persons, regardless of vaccine status, continue indoor masking; and

WHEREAS, the Sacramento County Department of Public Health on its Epidemiology COVID-19 Dashboard continues to show elevated case and death data, and this is supported by ongoing wastewater sampling; and

WHEREAS, Sacramento County currently has medium community transmission rates for COVID-19 as defined by the Centers for Disease Control and Prevention, and all surrounding counties are classified as medium to high; and

WHEREAS, on April 21, 2022, the California Department of Industrial Relations, Division of Occupational Safety and Health (Cal/OSHA) readopted its workplace COVID-19 Emergency Temporary Standards (ETS), as modified, effective May 6, 2022, through December 31, 2022, including outbreak reporting; and

WHEREAS, SMUD is incrementally reintroducing staff to its administrative buildings, staff infections continue to be reported with some consistency, and, under the current schedule, the majority will not return to working on-site until August or September 2022; and

WHEREAS, SMUD Board and Committee meetings can last as long as four hours, with participants sitting in the same room sharing air the entire time; and

WHEREAS, it would be impractical for SMUD to take steps necessary to prevent imminent risks to the health and safety of attendees, such as by holding public meetings outdoors, ensuring public meeting attendees are vaccinated, have appropriate face coverings, and wear them consistent with public health guidance; and

WHEREAS, all meetings, agendas, meeting dates, times, and manner in which the public may participate in the public meetings of the SMUD Board and offer public comment by telephone or internet-based service options including video conference are posted on the SMUD website and physically outside of SMUD's Headquarters Building; and

WHEREAS, by Resolution No. 21-10-01 adopted on October 12, 2021, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 21-10-03 adopted on October 21, 2021, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 21-11-05 adopted on November 18, 2021, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 21-12-04 adopted on December 9, 2021, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-03-01 adopted on March 8, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-03-03 adopted on March 17, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-04-01 adopted on April 13, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-04-03 adopted on April 21, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-05-06 adopted on May 19, 2022, this Board made findings that requisite conditions exist for the SMUD Board to

conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-06-02 adopted on June 16, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-07-02 adopted on July 21, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-08-05 adopted on August 18, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; NOW, THEREFORE,

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

Section 1. Risks to Health and Safety of Attendees. The Board has reconsidered the circumstances of the state of emergency and hereby finds that the state of emergency continues to directly impact the ability of the members to meet safely in person and holding SMUD Board meetings in person would present imminent risks to the health and safety of attendees.

Section 2. Remote Teleconference Meetings. SMUD staff are hereby authorized and directed to take all actions necessary to carry out the intent and purpose of this Resolution, including conducting open and public meetings in accordance with section 54953(e) and other applicable provisions of the Brown Act.

Section 3. Effective Date of Resolution. This Resolution shall take effect immediately upon its adoption and shall be effective until the earlier of (i) October 15, 2022, or (ii) such time the Board of Directors adopts a subsequent resolution in accordance with Government Code section 54953(e)(3) to extend

the time during which the SMUD Board may continue to teleconference without compliance with paragraph (3) of subdivision (b) of section 54953.

Approved: September 15, 2022

INTRODUCED: DIRECTOR BUI-THOMPSON				
SECONDED: DIRECT	TOR FISHI	MAN		
DIRECTOR	AYE	NO	ABSTAIN	ABSENT
ROSE	Х			
BUI-THOMPSON	Х			
FISHMAN	Х			
HERBER	Х			
KERTH	Х			
TAMAYO	Х			
SANBORN	Х			

President Rose then turned to Informational Items 10 through 12 and stated that any public comment on informational items could be provided during the general public comment period.

Chief Zero Carbon Officer, Lora Anguay, announced that earlier in the week, SMUD went live with the advanced distribution management system (ADMS), which is the control system for distribution system operators. She stated the ADMS allows for increased adoption of distributed energy resources, which is foundational to the 2030 Zero Carbon Plan. She congratulated Katarina Miletijev, Manager of Distribution Operations Engineering, and her team, Amber Connors, Director of Strategic IT Initiatives, and the Operations Technology team, and the members of the Research & Development team under Ed Hamzawi for this major accomplishment toward achieving SMUD's 2030 goals.

Ed Hamzawi, Director, Advanced Energy Solutions, gave a presentation on agenda item 10 to brief the Board on SMUD's Zero Carbon customer programs. A copy of the slides used in his presentation is attached hereto.

Lisa Limcaco, Director, Accounting & Controller, gave a presentation on agenda item 11, to provide the Board with SMUD's financial results from the seven-month period ended July 31, 2022, and a summary of SMUD's current Power Supply Costs. A copy of the slides used in her presentation is attached hereto.

With regard to agenda item 12, the Audit Reports for Community Funding, Greenergy Partner Plus Verification, and Power Source Disclosure Program, no clarifying questions were forthcoming.

President Rose asked if there were any requests to speak for items not on the agenda.

Deputy General Counsel Schofield stated that two requests to speak had been submitted, but one speaker had withdrawn the request and the other did not appear to be logged into the meeting.

Public comment was received, copies of which are attached to these minutes, from the following members of the public:

- Rosie Yacoub
- Rick Codina and Ed Smeloff for 350 Sacramento

President Rose then turned to Directors' Reports and noted that his President's Report would be brief given the hour.

Director Bui-Thompson reported on her attendance at the River

City Food Bank Empty Bowls event and her participation in the SMUD Cares golf tournament to raise funds for charity.

Director Fishman reported on his attendance at the Hispanic

Chamber of Commerce Luces Hispanas Awards. He then reported on his
participation in the Sacramento Downtown Partnership Calling All Dreamers

Awards where he represented SMUD. He closed by thanking Director Herber

and Jose Bodipo-Memba, Director of Sustainable Community Programs, for their
assistance in providing a presentation to the National Association for the

Advancement of Colored People (NAACP) on the 2030 Zero Carbon Plan and
Sustainable Communities.

Director Herber thanked Director Fishman and Jose Bodipo-Memba as well. She then reported on her attendance at the opening of the Food Literacy Center where Congresswoman Doris Matsui was in attendance. She reported on her participation in the Social Venture Partners Fast Pitch event and a tree planting at Crocker Riverside School. She closed by reporting on her attendance at the Burnett Awards given by the Sacramento History Museum where the Kerth Family was one of the award recipients.

Director Kerth thanked staff for going above and beyond for keeping the power on during the recent heat wave.

Director Tamayo thanked staff for their work in keeping the lights on. He closed by reporting on his attendance at the Urban Land Institute workshop on building electrification.

Vice President Sanborn reported on her attendance at the Sacramento Regional Innovation Awards pre-event. She stated she had met with Katharina Gerber who works for a company that makes parts for lithium ion batters that are 100% recyclable. She then reported on her attendance at the Carmichael Parks Foundation Dinner in the Park for Carmichael Recreation and

Park District. She thanked staff for their work during the recent heat wave and the community for responding to the calls to conserve.

President Rose reported on his attendance at the River City Food Bank event as well as the *Sacramento Business Journal's* Best of Real Estate Project Awards. He thanked staff for their work on the new ADMS system. He then thanked staff for their work during the heat wave and the community for cutting load during critical times. He also thanked everyone for their flexibility as the Committee meetings were canceled in the previous week and the items rescheduled.

Mr. Schofield stated that before moving on, Rosie Yacoub was available to provide her public comment.

Rosie Yacoub, member of the 350 Sacramento Electrification

Team, read from her prepared statement, a copy of which is attached to these minutes as previously noted.

President Rose thanked her for her comments and stated the reports for Strategic Direction SD-7, Environmental Leadership, and Strategic Direction SD-9, Resource Planning, had been rescheduled to next month, when the conversation would continue.

Laura Lewis, acting Chief Executive Officer and General Manager, reported on the following items:

1) Heat Wave. As you know, last week's heat wave was one of the worst in recent history. We had 10 straight days of extreme heat, breaking previous records by reaching 116 degrees in Sacramento on Tuesday, September 6th. This led to record demand for electricity and critically tight power supplies across the state as well as in our service area. Our peak load reached 3,292 MW, just 7 MW shy of breaking our peak record load set during a heat wave in 2006. It took all-hands-on-deck approach, through the Labor Day weekend and for multiple days in a row, to successfully secure adequate power, keep our equipment up and running and communicate the urgent need

for everyone in our community to conserve energy. Many of our community partners also helped spread the word about the need to conserve energy, and we are extremely grateful to everyone who helped us out. The possibility of rotating outages was real, and we were prepared on all fronts to do so if needed. Thankfully, they were not necessary thanks to the conservation efforts of our customers and community and the work by staff to secure additional power. We really appreciate everything our customers did to meet the challenge and conserve energy when it mattered most. Together we were able to keep the lights on through the unprecedented heat event.

- 2) Award for Chief Zero Carbon Officer. I would like to congratulate our Chief Zero Carbon Officer, Lora Anguay. Lora received an Exceptional Woman of Color Excellence Award from the Sac Cultural Hub Media Foundation. The award recognizes Lora's commitment to and leadership in our 2030 Clean Energy Vision. Congratulations, Lora!.
- 3) Board Video. Tonight's video is part of a new series: SMUD 24/7, which showcases the work people and teams across SMUD do to deliver reliable service. Line Inspector Darryl Cook, who is featured in the video, is with us tonight. Line Foreman Mark Lagerstedt was also with us, but he had to leave since he is on-call and just got called out. This demonstrates the dedication of our staff.

Director Fishman thanked staff for their work during the heat wave event. He stated that he had been in the California Independent System

Operation (CAISO) control room when those types of emergency conditions are happening and knew it was intense during those times, so he was thankful.

President Rose requested the Summary of Board Direction, but there were no items.

No further business appearing, President Rose adjourned the				
meeting at 8:21 p.m.				
Approved:				
President	Assistant Secretary			

Exhibit to Agenda Item #10

Brief the Board on SMUD's Zero Carbon customer programs.

Board of Directors Meeting

Thursday, September 15, 2022, scheduled to begin at 5:30 p.m.

Virtual Meeting (online)



2030 Zero Carbon Plan

Customer Programs - Status Update

September 15, 2022

Powering forward.
Together.

Zero Carbon Customer Programs by Portfolio



Building Electrification & Energy Efficiency

Encourages customers to decarbonize their homes and workplaces by converting from gas to efficient electric equipment and optimize and manage their electricity use



Load Flexibility & Battery Storage

Programs and options for customers to participate in building our Virtual Power Plant to help shift and manage loads during times when energy is needed or when excess energy is available



Transportation Electrification

Incentives, information, and special rates that help customers purchase and charge electric vehicles for homes and businesses



Green Pricing

Gives SMUD customers the ability to conveniently satisfy their desire to achieve and maintain a highly renewable or zero carbon power supply





Building Electrification & Energy Efficiency





How do I electrify my HVAC or Hot Water System?

Building Electrification & Energy Efficiency

Customer searches for available rebates and participating contractors

smud.org/rebates

smudcontractornetwork.org

Customer signs installation contract

Contractor completes installation & sends documentation to SMUD

RESIDENTIAL



Customer selects a participating contractor & requests cost estimate for HVAC or HW conversion

smudcontractornetwork.org

Contractor reserves qualifying rebates

SMUD reviews/ approves project & pays rebate





How do I decarbonize my home?

Building Electrification & Energy Efficiency Residential Programs

Advanced Home Solutions Contractor Network



- Heat pump water heaters
- Panel upgrade
- Circuit upgrade

Retailer Partnerships



- Washers & dryers
- Refrigerator & freezers
- Air cleaners
- Room air conditioners
- Advanced power strips
- Refrigerator recycling

Customer Rebates and Information



- Induction cooktops
- SMUD Energy Store
 - Smart thermostats
- Informational Programs
 - Home Electricity Reports

smud.org/rebates



How do I decarbonize my business?

Building Electrification & Energy Efficiency Commercial Programs

















Key Metrics & Milestones

Building Electrification & Energy Efficiency

	2021 Final	2022 July Actual	2022 EOY Forecast	2022 Goal
Heat Pump HVAC Conversions	2,575	1,888	3,224	2,600
Heat Pump Water Heater Conversions	958	622	1,357	1,380
New Homes & Multifamily Units Constructed	578	713	1,200	1,300
Cumulative Carbon Reduction (metric tons)	53,421	59,950	74,026	71,106

Future Activities

Launch Home Electricity Reports

Expand SMUD Contractor Network to Commercial Installers

Integrate Community Impact Plan Offerings





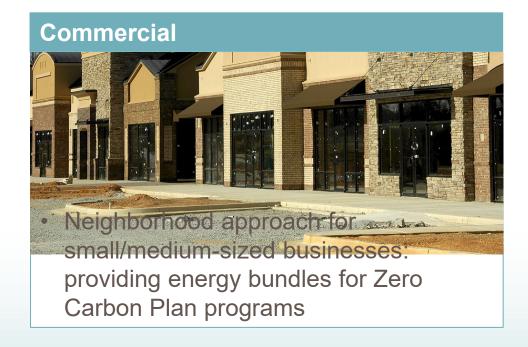
Community Impact Initiatives

Building Electrification & Energy Efficiency

Future Activities and Program Expansions

Residential

- Neighborhood focus: providing bundle offerings to increased # of customers
- Multifamily: increased incentives for affordable housing property managers







Transportation Electrification





How do I electrify my personal vehicle?

Transportation Electrification

Searches for EV info

smud.org/driveelectric

Test drives an EV

Ride & Drive Events

Makes EV purchase

CA Clean Fuel Reward Program Wants to save money when charging at home

EV Rate Credit (Time-of-Day)

RESIDENTIAL



Researches which EV and home charger is most appropriate

PlugStar Online Tools

SMUD EV Support Program support@pluginamerica.org

Visits a dealership

Dealer Engagement

Purchases and installs a home charger

SMUD Energy Store

smud.org/driveelectric

pilot

Enrolls in

Managed

Charging

SMUD Charge@Home Incentives

Sacramento Clean Cars for All Partnerships





How do I electrify my company fleet?

Transportation Electrification

Reviews EV Fleet options

smud.org/driveelectricbusiness

Talk to Commercial EV Staff

Develops plan & install chargers

Commercial EV Program

SMUD eFuel SolutionsSM

Examines ways to reduce demand charge burden

Commercial EV Pilot Rate

COMMERCIAL

September 15, 2022

Develops plan for fleet electrification

Commercial EV Program

SMUD eFuel Advisor SM

Makes EV purchases

Commercial EV Program





Residential and Commercial Programs

Transportation Electrification

Residential (smud.org/DriveElectric)



- Drive Electric Program
 - Individual EV Support
 - Ride & Drive Events
 - Dealer Engagement
 - PlugStar Online Tools
- SMUD Charge@Home Program
- Residential EV Rate Credit
- Sacramento Clean Cars for All Partnership
- Community Partnerships
- EV Managed Charging Pilot

Commercial (smud.org/DriveElectricBusiness)



- Commercial EV Program
 - Light, Medium, and Heavy-Duty vehicle incentives
 - Level 1, 2 and fast charger incentives
- SMUD eFuelSM
 - Advisor
 - Solutions
- Commercial EV Pilot Rate
- CALeVIP Partnership





Key Metrics & Milestones

Transportation Electrification

	2021 Final	2022 July Actual	2022 EOY Forecast	2022 Goal
Residential EV Chargers	N/A	486	833	800
Commercial EV Chargers	266	129	320	300
Cumulative Residential EV Rate Participants	12,176	15,156	16,500	16,376
# of Light Duty EV's in Service Territory	23,421	24,816	27,385	25,879

Future Activities

SMUD Contractor Network to install SMUD Charge@Home projects launching October 2022

Expanded e-mobility incentives and EV home charger installations for EAPR and income qualified customers

Add additional electric vehicle manufacturers to Managed Charging pilot

SMUD eFuel SolutionsSM program offering launch by year end

In depth consultation services helping customers right size home EV charging solutions

Investigating Universal Charging





Load Flexibility & Battery Storage





How can I help build my "Virtual Power Plant"?

Load Flexibility & Battery Storage

Online search for qualifying smart thermostats

Enrolls smart thermostat in My Energy Optimizer Partner

Receives notifications around Peak Event Days Receives \$25 participation rebate at the end of season or Critical Peak Pricing bill savings

RESIDENTIAL



Purchases smart thermostat

SMUD Energy Store

Receives \$50
enrollment rebate
and Critical Peak
Pricing information

Home preconditioned during Peak Event Days





How can I help my community build a virtual power plant?

Load Flexibility & Battery Storage

Rate Arbitrage



- My Energy Optimizer Starter
 - Battery

smud.org/storageres

Storage

Peak Days



myenergyoptimizer.org

Residential Summer



- Battery Storage





Partner+ Battery

My Energy

Optimizer

Storage

smud.org/storageres

Summer Emergency Events



 Peak Corps (Air Conditioner I oad Management)

Commercial Summer Peak Days



smud.org/powerdirect

PowerDirect

Research Pilots



- EV Managed Charging
- PowerMinder Water Heaters





17



Key Metrics & Milestones

Load Flexibility & Battery Storage

	2021 Final	2022 July Actual	2022 EOY Forecast	2022 Goal
My Energy Optimizer Smart Thermostats	NA	4529	6500	5600
My Energy Optimizer Battery Customers	NA	33	100	368
PowerDirect (MW)	15.6	17.9	18.0	17.7
Load Flexibility Portfolio (Total MW)	74	113	182	206

Future Activities

Increase PowerDirect® Small-Medium Business Participation

Grow My Energy Optimizer Partner Thermostat Participation

Implement My Energy Optimizer
Partner Battery and Partner+ Events

Launch Next Gen Air Conditioning Load Management Offering





Green Pricing



How do I participate in Residential Greenergy™?

Green Pricing

Becomes aware of Greenergy

Start Electrical Service

Social Media Campaign

Media Advertising

Selects Greenergy participation level

smud.org/move

smud.org/going-green

Receives 1st year thank you letter and information on upgrading to Greenergy Neighbor or Climate Advocate

Annual Power Content Label & Letter

RESIDENTIAL

eptember 15, 202

Moves into home, finds Greenergy option via the start service interaction

smud.org/move

Receives welcome letter with information about choice and impact





Residential and Commercial Programs

Green Pricing

Residential Greenergy



smud.org/greenergy

Updated - January 2022

- Standard
- California Renewable
- Local Renewable

New options - June 2022

- Neighbor
- Climate Advocate

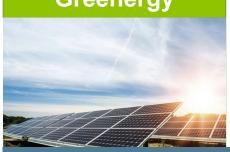
Sacramento Shade



smud.org/shadetrees

- Partnership between SMUD and Sacramento Tree Foundation
- Up to 10 free trees for residential customers

Commercial Greenergy



- Partner Plus
 - 100% Californiabased carbon free generation
- Custom Blend
 - Tailored based on customer needs

smud.org/greenergy

Community Solar/Storage



- Neighborhood SolarShares
- Commercial StorageShares

smud.org/going-green/neighborhood-solarshares





Metrics & Milestones

Green Pricing

	2021 Final	2022 July Actual	2022 EOY Forecast	2022 Plan
Residential Greenergy customers	68,000	66,000	67,000	71,000
Commercial Greenergy customers	2,128	1,215	1,700	1,700
# of trees distributed	11,628	6,047	12,250	12,250
# of Neighborhood SolarShares homes enrolled	16	1809	2100	2500

Future Activities

2023 - Planning and development of Commercial Greenergy California Renewable Offering

2024 - Planning and development of Commercial Renewable Shares Offering

2023 – Update Sacramento Shade Contract



Zero Carbon Program Resources









Program	Email address	Phone	Web Site
Advanced Home Solutions	AdvancedHomeSolutions@smud.org	916-732-5732	smud.org/rebates
Express Energy Solutions	Express.EnergySolutions@smud.org	916-732-5095	smud.org/ees
Complete Energy Solutions	CES@trccompanies.com	844-529-4084	smud.org/ces
Advanced Commercial Solutions	CustomRetrofit@smud.org	916-732-5095	smud.org/custom
Integrated Design Solutions	IntegratedDesign@smud.org	916-732-5095	smud.org/ids
Multifamily Go Electric	multifamily@smud.org	916-732-6359	smud.org/multifamily
All Electric Smart Homes	rnc@trccompanies.com	916-732-5300	smud.org/smarthomes
My Energy Optimizer	MyEnergyOptimizer@smud.org	916-732-7400	myenergyoptimizer.org
PowerDirect® ADR	powerdirect@smud.org	916-732-6950	smud.org/powerdirect
Drive Electric	Support@PlugInAmerica.org	877-EV-HELP-1	pluginamerica.org/sacramento-ev-support-program
Charge@Home	evincentives@smud.org	916-732-4800	smud.org/driveelectric
Commercial Electric Vehicles	commercialev@smud.org	916-732-5095	smud.org/driveelectricbusiness
Greenergy	greenergy@smud.org	888-742-7683	smud.org/greenergy
Shade Trees	shadetrees@sactree.com	916-924-8733	smud.org/shadetrees







Thank You







Exhibit to Agenda Item #11

Provide the Board with SMUD's financial results from the seven-month period ended July 31, 2022, and a summary of SMUD's current Power Supply Costs.

Board of Directors Meeting

Thursday, September 15, 2022, scheduled to begin at 5:30 p.m.

Virtual Meeting (online)



July 2022 Financial Highlights

	\$895 Million	 Customer Revenue \$37M or 4.3% higher customer revenues than budgeted (favorable) \$50M higher than target primarily due to higher customer usage & lower bad debt expense Offset by \$13M reduction in commercial customer revenues due to overstatement of 2021 estimated unbilled revenues
\$116 Million "Net	\$406 Million	 Commodity \$101M or 33.0% higher commodity expenditures than budgeted (unfavorable) Purchased power higher due to increased load, reduced hydro, and thermal generation down due to Cosumnes power plant outage Non-cash revenue transfer from Hydro Rate Stabilization fund of \$25 million will offset increased purchased power costs from lack of hydro
Income" Net position YTD Favorable compared	\$310 Million	 Other Operating Expenses \$19M or 5.8% lower expenditures than budgeted (favorable) Customer expenses & program costs - \$16M lower primarily due to lower transportation electrification expenses and supply chain issues leading to delay in participation in customer programs Public Good \$8M lower primarily from less participation in energy efficiency programs, due to slower economic recovery in the commercial sector Offset by \$5M higher Transmission and Distribution expenses - primarily due to higher distribution maintenance underground line & station equipment expenses
	\$105 Million	Non-cash Expenses \$51M or 32.7% lower non-cash expenses than budgeted (favorable) • Accounting Governmental Accounting Standards Board required journal entries for pension

^{*} There are \$42M other net revenues and expenses not included in the highlights above – primarily \$25M transfer from the Hydro rate stabilization fund



July 2022 Energy Sources



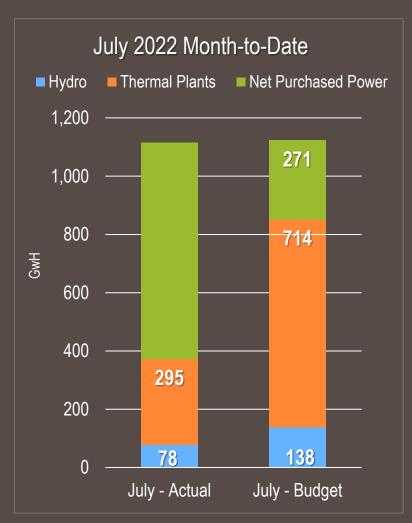
Hydro generation was 44% lower than budget in July, and 31% lower than budget year-to-date.

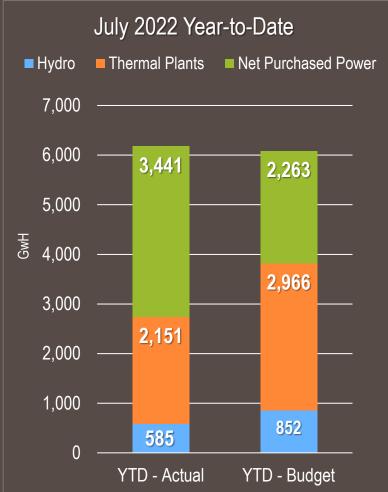


Thermal plants generation 59% lower than budget for July due to the Cosumnes power plant outage, and 28% lower than budget year-to-date.



Net purchased power was 174% higher than budget for July due to purchase of replacement power for the Cosumnes power plant, and 51% higher year-to-date due to higher load and the shortfall of hydro & thermal.







Delinquency by Account Type

As of August 31, 2022



Delinquency Summary as of 8/31/2022					
	Number of Customers				
Residential	\$36.6	114,969			
Energy Assistance Program Rate (EAPR)	\$11.7	31,503			
Commercial	\$14.5	9,319			
All other (St. Lighting, Night Light, Agriculture)	\$ 1.0	1,685			
Totals	\$63.8	157,476			



Commodity Budget: Mitigations & Forecast



SMUD has in place financial mitigation tools that hedge against hydroelectric uncertainty

\$56.1 Million	Hydro Rate Stabilization Fund balance
-\$25.1 Million	HRSF withdrawal for Water Year April 2021 to March 2022
\$31.0 Million	HRSF remaining balance after withdrawal
\$33.5 Million	Western Area Power Administration Rate Stabilization Fund balance
-\$30.0 Million	WAPA RSF forecasted withdrawal
\$3.5 Million	Estimated – WAPA RSF remaining balance after forecasted withdrawal

2022 Commodity Forecasted Annual Costs as of July 31, 2022				
Forecast	\$635 - \$654 Million			
2022 Budget	\$441 Million			
Difference \$194 - \$213 Million				

Hydro Performance Annual Forecast as of August 31, 2022						
UARP WAPA WAPA						
Forecast	995 GWh	221 GWh	1,216 GWh			
2022 Budget	1,303 GWh	661 GWh	1,964 GWh			
Variance	-308 GWh	-440 GWh	-748 GWh			

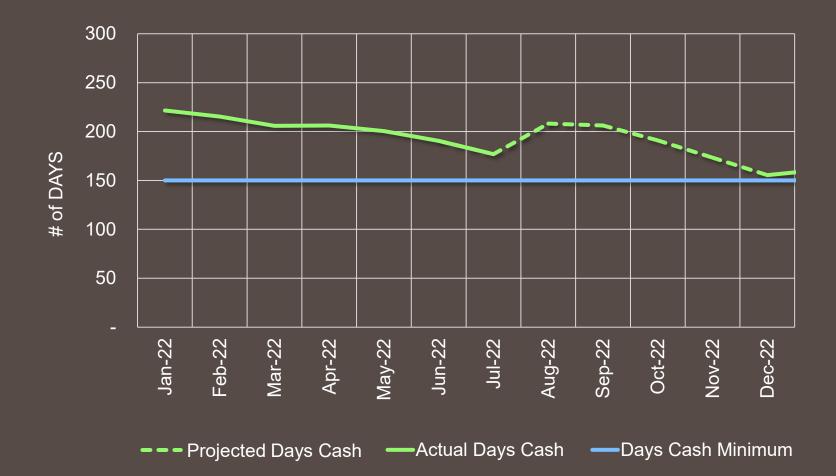
WAPA: Western Area Power Administration UARP: Upper American River Project

RSF: Rate Stabilization Fund



Days Cash on Hand

As of July 31, 2022



Days Cash on Hand As of July 31, 2022					
July 31, 2022	Budget	180 days			
July 31, 2022	Actual	177 days			
Dec. 31, 2022	Budget	162 days			
Dec. 31, 2022	Projected	155 days			



From: coyote1@surewest.net
To: Public Comment

Subject: [EXTERNAL] Comments on SMUD CZP Community Programs Board Meeting Sept 15th

Date: Thursday, September 15, 2022 2:58:06 PM

Attachments: <u>image001.png</u> <u>image002.png</u>

CAUTION: This email originated from outside of SMUD. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Comments on SMUD Climate Zero Plan

Community Programs

We believe that SMUD is aiding in the electrification of County buildings at a below par level. Using data in this and last year's SD-9 report, we found that electrification accomplishments in 2021 were 40% to 45% below the previous year. Even more telling is that the total *changeouts represent less than 10% of the potential annual turnover* of nearly 38,000 of the appliance stock in the County as indicated in my table below.

This low program expectation will carry over to this year as indicated in the milestone table presented at the Zero Carbon Customer Program update tonight. These 2022 program goals call for heat pump conversions (2,600 HVAC and 1,380 Water Heat) to be below those achieved in 2020, and far below the 38,000 units actually available for changeout annually. Clearly, these goals are set too low and do not seem to account for collateral efforts on electrification measure by local municipalities.

Moreover, there are not clear goals for future electrification outlined. These too should be ambitious. Currently SMUD is only projecting 112,000 home retrofits by 2030 -- only 20% of the actual County housing units of 564,500.

SMUD needs to present a plan for how they can benefit and optimize the measures in the Inflation Reduction Act that will create a better projection by 2030. One way this could be done is to provide a financing measure that would allow more individuals and landlords to actually make the conversion to all-electric, and let the Inflation Reduction Act rebates allow them to repay the financing sooner. Focusing on equity and lowering the bar for doing the conversions is very important.

Rosie Yakoub

350 Sacramento

Electrification Team

SMUD Building Electrification Accomplishments 2020-2021

	2020		2021			Change	
Original appliance:	Gas	Electric	Totals	Gas	Electric	Totals	(Pct)
Heat pump water heaters							
Single family	1,025	77	1,102	879	4	883	-20%
Multi-family	45	622	667	79	136	215	-68%
Subtotal	1,070	699	1,769	958	140	1,098	-38%
Heat pump space heaters							
Single family	1,491	2,540	4,031	1,570	781	2,351	-42%
Multi-family	45	622	667	79	136	215	-68%
Subtotal	1,536	3,162	4,698	1,649	917	2,566	-45%

Total Sacramento County Housing Units: 564,445
Projected Annual Appliance Turnover (15-yr life): 37,630



	2021 Final	2022 July Actual	2022 EOY Forecast	2022 Goal
Heat Pump HVAC Conversions	2,575	1,888	3,224	2,600
Heat Pump Water Heater Conversions	958	622	1,357	1,380
New Homes & Multifamily Units Constructed	578	713	1,200	1,300
Cumulative Carbon Reduction (metric tons)	53,421	59,950	74,026	71,106

From: Rick Codina

To: Public Comment

Subject: [EXTERNAL] Informational Item 11: SMUD's financial results from the seven-month period ended July 31, 2022,

and a summary of SMUD's current Power Supply Costs.

Date: Thursday, September 15, 2022 9:55:28 AM

CAUTION: This email originated from outside of SMUD. Do not click links or open attachments unless you recognize the sender and know the content is safe.

We are very concerned with SMUD's current power problems including low hydro availability and the unplanned disability of Cosumnes. This power supply update partially explains how staff has scrambled to make up the shortfall. But the report raises the following questions for those of us worried about the greenhouse gas emission impacts and the cost of continual investment in a plant that may be destined for shutdown or repurposing by 2030.

- What are power sources from the WSPP, specifically how much comes from renewable power including hydroelectric?
- When is the estimated timeframe for Cosumnes to come back on-line?
- Is the turbine under warranty? How much is estimated to fix it?
- If it requires a sizable capital addition would SMUD be better off buying power from the market as it develops its new fleet of renewables? This might require that BANC merge with the CAISO. Would the other BANC members agree?
- Does the Cosumnes outage make SMUD more vulnerable now to rotating outages?
- How are the biogenic fuels that are piped to Cosumnes being used during the shut-down?

It occurs to us that this problem is similar to the one SMUD faced with Rancho Seco. Throwing good money after bad for an asset that has a short life span (to 2035??). This is a situation where the Board members need to ask the right questions and just not go along with management's theory of the case that fixing Cosumnes is the only solution.

Thank you

350 Sacramento SMUD Watch Committee Rick Codina Ed Smeloff

Sent from Mail for Windows

SSS No. LEG 2022-0137	

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Policy – 10/12/22
Board Meeting Date
October 12, 2022
October 20, 2022

ТО				ТО										
1.	. Jennifer Davidson					6.								
2.	Brandy Bolden					7.								
3.	3. Farres Everly				8.									
4.	4. Suresh Kotha				9.	Legal								
5.	i.				10.	CEO	CEO & General Manager							
Consent Calendar X Yes X No If no, sche		lule a dry run presentation. Buc		dgeted X Yes				No (If no, explain in Cost/Budgeted section.)						
FROM (IPR)			DEPARTMENT	· · · · ·					MAIL STOP	EXT.	DATE SENT			
Joe Schofield Legal Department									B406	5446	09/01/22			
NAI	RRATIVE:					NARRATIVE:								

Requested Action:

Make findings pursuant to Government Code section 54953(e) to continue meetings via virtual (online/teleconference) meeting for the next 30 days.

Summary:

Pursuant to Executive Order N-29-20 issued on March 17, 2020, and Executive Order N-35-20 issued on March 21, 2020, as well as the Emergency Board Meeting Procedures adopted by this Board via Resolution No. 20-06-08 on June 18, 2020, this Board has conducted regular Board meetings and other public meetings via remote (online/teleconference) meetings.

On September 16, 2021, Governor Newsom signed Assembly Bill 361 (AB 361), which became effective immediately upon signature, containing language that eased Brown Act requirements to allow local agencies to meet remotely. AB 361 allows meetings to continue to be conducted by teleconference, similar to the process used during the current COVID-19 pandemic, but only when there is a declared state of emergency when the local governing body makes findings that there are imminent health risks to meeting in person.

On February 25, 2022, Executive Order N-04-22 was issued leaving the California State of Emergency due to the threat of COVID-19 in effect for the foreseeable future. Though the State of Emergency remains in effect, mask mandates have been dropped locally and at the state level.

On April 21, 2022, CAL/OSHA re-adopted its workplace COVID-19 Emergency Temporary Standards (ETS), as modified, effective May 6, 2022, through December 31, 2022, including outbreak reporting. Due to the lack of a requirement to sign in at SMUD Board meetings with contact information, it could be nearly impossible to undertake effective contact tracing. Although the most recently reported COVID-19 data published by the Sacramento County Department of Public Health on its Epidemiology COVID-19 Dashboard, and covering the period up to September 24, 2022, indicated a local COVID-19 case rate of 8.3% and 13 deaths since the last update, meaning Sacramento County is currently in the low severity tier for COVID-19 with surrounding counties also being in the low tiers, staff and community partners continue to report COVID-19 infections, sometimes with fairly severe symptoms. This is consistent with wastewater data showing COVID-19 samples to have remained at a fairly consistent level in Sacramento County for the last few weeks. The bivalent booster shots are widely available but reportedly only a third of people say they plan to get it soon. Moreover, when SMUD Board and Committee meetings were held in person, they could last as long as four hours with all participants in a single room. And although we could space out participants, they would still be breathing one another's respirated air for what could be a lengthy period of time. The last two years saw rapid increases in infection rates during the fall, and if that pattern remains true for this year, a new surge could come soon.

By Resolution 21-10-01 adopted on October 12, 2021, Resolution No. 21-10-03 adopted on October 21, 2021, Resolution No. 21-11-05 adopted on November 18, 2021, Resolution No. 21-12-04 adopted on December 9, 2021, Resolution No. 22-03-01 adopted on March 8, 2022, Resolution No. 22-03-03 adopted on March 17, 2022, Resolution No. 22-04-01 adopted on April 13, 2022, Resolution No. 22-04-03 adopted on April 21, 2022, Resolution No. 22-05-06 adopted on May 19, 2022, Resolution No. 22-06-02 adopted on June 16, 2022, Resolution No. 22-07-02 adopted on July 21, 2022, Resolution No. 22-08-05 adopted on August 18, 2022, and Resolution No. 22-09-06 adopted on September 15, 2022, this Board has previously made findings to continue to hold regular Board meetings and other public meetings via solely virtual (online/teleconference) format.

Staff's recommendation is to continue to hold regular Board meetings and other public meetings via solely virtual (online/teleconference) meeting and continue to monitor developments related to the COVID-19 pandemic. Pursuant to Government Code section 54953(e), this Board must make findings every 30 days that conditions warrant continuing to meet virtually instead of in-person.

Board Policy: (Number & Title)

Governance Process GP-3, Board Job Description – j) Take such other actions as may be required by law.

Benefits:

Making the determination to continue remote meetings will allow for efficient conduct of SMUD business.

Cost/Budgeted:

Contained in Business Unit budget for internal labor.

Alternatives:

Take no action and comply with all original Brown Act requirements.

Affected Parties:

SMUD, Board of Directors, Public

Coordination:

Executive Office, Board Office, Legal Department, Information Technology, Communications

Presenter:

Laura Lewis, Chief Legal & Government Affairs Officer

Additional Links:

SUBJECT

Make Findings to Continue Online/Teleconference Meetings

ITEM NO. (FOR LEGAL USE ONLY)

5

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

RESOL	LUTION	NO.			

WHEREAS, SMUD is committed to preserving public access and participation in meetings of the Board of Directors and to the safety of meeting attendees; and

WHEREAS, all meetings of the Board of Directors are open and public, as required by the Ralph M. Brown Act (Gov't Code, §§ 5495054963) ("Brown Act"), so that any member of the public may attend, participate in, and watch SMUD's governing body conduct its business; and

WHEREAS, the newly enacted Government Code section 54953(e) authorizes a local agency's governing body, during a proclaimed state of emergency, to participate in its public meetings using remote teleconferencing without compliance with the requirements of Government Code section 54953(b)(3), under specified conditions; and

WHEREAS, a required condition is that a state of emergency is declared by the Governor pursuant to Government Code section 8625, proclaiming the existence of conditions of disaster or of extreme peril to the safety of persons and property within the state caused by conditions as described in Government Code section 8558; and

WHEREAS, another condition is that state or local officials have imposed or recommended measures to promote social distancing, or, the legislative body determines that meeting in person would present imminent risks to the health and safety of attendees; and

WHEREAS, on February 28, 2022, the California Department of Public Health rescinded the mask requirement effective March 1, 2022, for all individuals



regardless of vaccination status and instead issued a strong recommendation that all persons, regardless of vaccine status, continue indoor masking; and

WHEREAS, the Sacramento County Department of Public Health on its Epidemiology COVID-19 Dashboard continues to show elevated case and death data that appears to have been stable for weeks, and this is supported by ongoing wastewater sampling; and

WHEREAS, Sacramento County and surrounding counties currently have low community transmission rates for COVID-19 as defined by the Centers for Disease Control and Prevention; and

WHEREAS, on April 21, 2022, the California Department of Industrial Relations, Division of Occupational Safety and Health (Cal/OSHA) re-adopted its workplace COVID-19 Emergency Temporary Standards (ETS), as modified, effective May 6, 2022, through December 31, 2022, including outbreak reporting; and

WHEREAS, SMUD staff and other community members are still reporting infections with lasting symptoms; and

WHEREAS, adoption of the new bivalent booster is still relatively low; and
WHEREAS, SMUD Board and Committee meetings can last as long as
four hours, with participants sitting in the same room sharing air the entire time; and

WHEREAS, it would be impractical for SMUD to take steps necessary to prevent imminent risks to the health and safety of attendees, such as by holding public meetings outdoors, ensuring public meeting attendees are vaccinated, have appropriate face coverings, and wear them consistent with public health guidance; and

WHEREAS, all meetings, agendas, meeting dates, times, and manner in which the public may participate in the public meetings of the SMUD Board and offer public comment by telephone or internet-based service options including video conference are posted on the SMUD website and physically outside of SMUD's Headquarters Building; and

WHEREAS, by Resolution No. 21-10-01 adopted on October 12, 2021, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 21-10-03 adopted on October 21, 2021, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 21-11-05 adopted on November 18, 2021, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 21-12-04 adopted on December 9, 2021, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-03-01 adopted on March 8, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct

remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-03-03 adopted on March 17, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-04-01 adopted on April 13, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-04-03 adopted on April 21, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-05-06 adopted on May 19, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-06-02 adopted on June 16, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-07-02 adopted on July 21, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-08-05 adopted on August 18, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. 22-09-06 adopted on September 15, 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, by Resolution No. [XX] adopted on [October], 2022, this Board made findings that requisite conditions exist for the SMUD Board to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; NOW, THEREFORE,

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

Section 1. Risks to Health and Safety of Attendees. The Board has reconsidered the circumstances of the state of emergency and hereby finds that the state of emergency continues to directly impact the ability of the members to meet safely in person and holding SMUD Board meetings in person would present imminent risks to the health and safety of attendees.



Section 2. Remote Teleconference Meetings. SMUD staff are hereby authorized and directed to take all actions necessary to carry out the intent and purpose of this Resolution, including conducting open and public meetings in accordance with section 54953(e) and other applicable provisions of the Brown Act.

Section 3. Effective Date of Resolution. This Resolution shall take effect immediately upon its adoption and shall be effective until the earlier of (i) November 19, 2022, or (ii) such time the Board of Directors adopts a subsequent resolution in accordance with Government Code section 54953(e)(3) to extend the time during which the SMUD Board may continue to teleconference without compliance with paragraph (3) of subdivision (b) of section 54953.

SSS No.	
E,S RES 22-05	

BOARD AGENDA ITEM

Committee Meeting & Date
Policy – 10/12/22
Board Meeting Date
October 20, 2022

STAFFING SUMMARY SHEET

			•	ТО							ТО		
1.	Claire Rogers					6.	Sui	resh I	Kotha				
2.	Frankie McDe	ermott				7.							
3.	Jennifer Davi	dson				8.							
4.	Brandy Bolde	n				9.	Le	gal					
5.	Farres Everly					10	CE	O &	Gen	eral	Manager		
_	nsent endar	X Yes		No If no, sche presentation.	edule a dry run	Budg	jeted	Х	Yes		No (If no, ex section.)	•	ost/Budgeted
FRC	M (IPR				DEPARTMENT						MAIL STOP	EXT.	DATE SENT
	as van Ekelenb	ourg			Energy Delivery a	nd Op	erati	ons			B209	7475	09/13/2022
	RRATIVE: equested Actio	A -		4 41 :4	ring report for Strate	D	· 4	C	TD (Caf	2.4 I a a d a	.1	
	Summary: Report on the status of Strategic Direction SD-6, Safety Leadership (SD-6), for safety performance from January through June of 2022. Report addresses safety leadership accomplishments during the first six months of the year, current Days Away Restricted Time numbers, and safety opportunities and challenges. Board Policy: (Number & Title) Benefits: Provide the scheduled bi-annual monitoring report as requested by the Board of Directors and Executive Staff. The report provides an opportunity to make recommendations or policy revisions as necessary.						ted Time ce status.						
	Cost/Budgete	d: No	ne										
	Alternative	es: Pro	Provide the Board monitoring report without a presentation.										
1	Affected Partie	es: Bo	Board of Directors, Executive Staff										
	Coordinatio	n: Org	gani	ization-wide									
	Presente	er: Ell	Ellias van Ekelenburg, Director of Environmental, Safety, and Real Estate Services										

Additional Links:			

SUBJECT
SD-6, Safety Leadership Board Monitoring Report

ITEM NO. (FOR LEGAL USE ONLY)

6

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

SMUD-1516 1/16 Forms Management Page 0

SACRAMENTO MUNICIPAL UTILITY DISTRICT

OFFICE MEMORANDUM

TO: Board of Directors DATE: September 28, 2022

FROM: Claire Rogers CR 9/28/22

SUBJECT: Audit Report No. 28007434

Board Monitoring Report; SD-06, Safety Leadership

Audit and Quality Services (AQS) received the SD-06 Safety Leadership first-half 2022 Biannual Board Monitoring Report and performed the following:

- A review of the information presented in the report to determine the possible existence of material misstatements;
- Interviews with report contributors and verification of the methodology used to prepare the monitoring report; and
- Validation of the reasonableness of a selection of the report's statements and assertions.

During the review, nothing came to AQS' attention that would suggest the SD Board Monitoring report did not fairly represent the source data available at the time of the review.

CC:

Paul Lau

Board Monitoring Report 1st and 2nd Quarters, 2022 Strategic Direction SD-6, Safety Leadership



1. Background

Strategic Direction SD-6, Safety Leadership states that:

Creating a safe environment for employees and the public is a core value of SMUD.

Through best practice methods and continuous improvement, SMUD will be recognized as a leader in employee safety while also assuring the safety of the public related to SMUD operations and facilities. SMUD commits to a proactive approach, including the active involvement of SMUD leadership, employees, contractors, and the community, as well as comprehensive monitoring of organizational and public safety performance.

Therefore, SMUD will continue to improve safety results to:

Workplace Safety

- a) Reduce SMUD's injury severity incidents to 13 or less than by 2025, as measured by OSHA's Days Away Restricted Time (DART), a rate that demonstrates top quartile safety performance for similar size utilities using the Bureau of Labor Statistics (BLS) work-related safety data.
- b) Provide timely, quality health care for injured employees that aids their recovery while maintaining positive financial performance of the workers' compensation program.

Contractor Safety

a) Support contractors to reduce and eliminate potential hazards for Serious Injuries and/or Fatality (SIF) when conducting high risk work.

Public Safety

- a) Track and report injuries to the public related to SMUD operations or facilities.
- b) Implement measures to protect the public from injuries related to SMUD operations or facilities.

2. Executive Summary

SMUD is in compliance with the SD-6 direction and is in alignment with SMUD's new 5-year strategy of working toward a zero-incident culture. SMUD is currently on track to meet safety performance targets related to SD-6 for 2022.

Workplace Safety

From January 2022 through June, SMUD recorded 15 OSHA Recordables injuries. This is a 40% decrease from this time last year (25 OSHA Recordables). Of the 15 injuries, 4 (2 Lost Time & 2 Modified Duty injuries) resulted in a .0.39 DART rate. This represents a continued decrease in injuries which is trending downward to meet our 2025 Target (See Appendix A).

Quality care of injured employees is measured through the Workers' Compensation program's performance, which is assessed annually by an independent actuary. SMUD continues to have a reduction in claims over the past three years, a reduction in injury frequency rates, and a reduction in indemnity benefits as presented below.

	2018	2019	2020	2021	2022
No. of Claims (Medical & Indemnity)	120	85	89	59	54
Incident rate per 100 employees	5.06	3.6	2.3	2.4	2.2
Rates per \$100 payroll	.98	.94	.94	.85	.67

This year has continued to present challenges with COVID-19. COVID -19 has not only impacted the way SMUD is getting work done but has also resulted in new and emerging legislation surrounding paid leave and workers' compensation liabilities for COVID related injuries. Despite these challenges SMUD's program remains strong and continues to lead when compared with similarly situated organizations. No COVID-19 claims were made in 2022.

Contractor Safety

Safety has completed 96 contractor site safety field visits thru the 2nd Quarter of 2022. These visits focus on high hazard work performed on SMUD projects focusing on construction safety hazards, such as excavation, working at elevations, and in confined spaces to verify safe working practices by our contractor to reduce the potential for serious injuries or property damage. Contractor reported incidents require an investigation to be completed and typically will warrant additional site safety visits to verify corrective measures have been put into place to reduce further occurrences.

Public and Community Safety

SMUD tracks public and community incidents in the Safety Incident Tracking System (SITS) involving car-pole, electrical contact, dig-in incidents, and injuries to the public that are related to SMUD's operations or facilities. For the first half of 2022, there have been 150 incidents where the public struck a SMUD asset with a vehicle, with one fatality from such events. Seven electrical contacts were reported with one minor injury, and 45 dig-ins with no reported injuries.

3. Additional Supporting Information

The new SD-6 Safety Direction became effective February 2021. Our goal is to achieve the desired performance objectives by year-end 2025. This report summarizes the first half of the 2022 safety performance.

Safety Leadership. The Safety Team continues with its integration efforts to support Executive Leadership's 5-year plan that emphasizes zero incidents and injuries and a focus on a zero-accident safety culture. SMUD's Chief Executive Officer (CEO) Paul Lau, re-emphasized the need to improve safety at SMUD with a greater focus of developing a" Safety for Life" culture, reducing the risk of serious injuries and fatalities, implementing a safety management system, and improving the analysis of injury and incident trends. These goals are outlined in SMUD's Safety Road Map, which was updated in early 2022.

Safety Management System (SMS). Five applications within the Safety Management System are planned to be activated in 2022. They include the Contractor Manager, Safety Data Sheets (SDS), Industrial Hygiene, Initial Injury Reports and Incident & Measurements which will replace core functions of the legacy Safety Incident Tracking System (SITS). During 2022, Safety anticipates that there will be sufficient data to activate and utilize, new safety dashboards and reports for leadership.

Safety Standards Development. The Safety Team has continued their efforts to improve the process of routing new or updated Health & Safety Standards to appropriate Directors for review, utilizing the SMS "Doc Manager" application. The first standard to be routed, utilizing this process is the PCB Health & Safety Standard. In addition, the Team has been preparing for updates from Cal/OSHA on the COVID-19 requirements, to ensure our Injury Illness Prevention Program (IIPP) and COVID-19 Appendix contains the most up-to-date regulatory requirements and is provided to all SMUD personnel in a timely manner.

Supervisor-Employee Interactions. Safety continues to strengthen its supervisor-employee interaction quality program. Improvements included moving data to the new Safety Management System (SMS). Emphasis is placed on field visits for work with the highest hazard potential. For office personnel, an emphasis is placed on observing personnel pertaining to ergonomic risk, and slip/trip/fall hazards in walking areas. During the first half of 2022, a total of 7,067 Supervisor-Employee interactions were complete that resulted in a 152% percentage observed.

Near Miss Reporting. Leadership continues to support and encourage near miss reporting. During the first half of 2022, the Safety Incident Tracking System (SITS) and applications within the new Safety Management System, provided a method to track near miss reporting. The goal of this process is to identify opportunities for learning, prior to an incident occurring. Thirty-four near miss incident were reported through June 2022, 22 through the SITS applications and 12 in the new Safety Management System.

Contractor Safety. SMUD continues to use the ISNetworld system to evaluate our contractor's safety record and safety program. The Contractor Safety program focuses on SMUD contractors in Power Generation, Environmental Services, Line, Substation, and Vegetation management contractors that perform high risk work, such as high voltage work, working at heights, vegetation management, confined spaces, excavations, etc. Additionally, we have begun to integrate the use of the SMS system for use with SMUD contractors, primarily for incident tracking, reporting and investigations as we move away from SITS.

SMUD currently has 80 contractors in the ISN system. During the past year we have expended our site safety evaluations performed on our high-risk contractors validate safety performance on the jobsites. Through the second quarter of 2022, 96 site safety evaluations have been completed and SMUD is on track to meet or exceed the 2022 target of 150 evaluations. We are also continuing to validate our pre-qualification criteria for contractor selection. SMUD's pre-qualification criteria focuses on Contractor Fatality History, OSHA Citation History, DART and

Total Recordable Incident Rates (TRIR), Insurance Experience Ratio, Safety Culture Questions, and Safety Program Review.

In addition, SMUD Procurement and Safety have partnered together working on enhancing contract language as it relates to contractor safety requirements, Request for Proposal (RFP) templates for high-risk work and incorporating contractor safety as part of the onboarding process.

Safely Conducted Observations Reduce Common Hazards (SCORCH). A SCORCH Spring Cleaning event and Summer Safety photo contest were conducted to continuously promote SMUD's Safety for Life culture and intentionally expand employee use of the (SMS) Safety Management System. Employees positively responded to engagement opportunities that allow them to share photos of themselves and/or family members demonstrating safe behaviors in action at home and at play. Feedback obtained from these observations will be used to create an additional CBI behavior checklist that extends beyond the employee's core work. SCORCH relaunched its external process engagement efforts and best practices information gathering by attending Dekra's, Safety in Action conference after a two-year absence. An internal mini conference will serve as the forum for sharing the information and made available for all employees to attend. The goal is to elevate behavior awareness and wellness ownership to a level that is in alignment with a sustained work/life balance here at SMUD.

Through June of 2022, SCORCH team members conducted 1,995 Office and Professional observations and 1,399 Field employee observations. These safety interactions resulted in the removal of 2 barriers to employee safety. **Head & Neck Posture** is the current/trending top atrisk behavior for office employees. Early awareness and behavior ownership coaching for avoiding repeated or sustained awkward postures (chin to chest, chin to sky or craning) of the head and neck was out into action.

For Field employees **Situational Awareness** is the top trending at-risk behavior. This led to an action plan focused on elevating behavior awareness for more frequently updated information for potential moving and/or changing conditions related to the surrounding work area. Early recognition for a potential hazard (vehicle, pedestrians, or stray dogs) can provide employees the space, visibility, and time to safely react to a situation.

4. Challenges

COVID-19 and Vaccination Guidance. The safety of our employees is of utmost importance, so we continue to monitor SMUD COVID-19 cases and manage prevention efforts. In 2022 SMUD Safety, People, Services, & Strategies, along with Communications revised the COVID-19 guidance to meet regulation changes within the Cal-OSHA Emergency Temporary Standard around facial covering, testing programs, quarantine, and isolation guidelines to protect employees, contractors, and the public. SMUD continues to provide employees with COVID-19 vaccinations and antigen testing at our EC-OC clinic, as well as PCR testing at our contractor facility. Our third-party vendor Axiom Medical continues to handle employee contract tracing and the process has been working well.

Data Management. SMUD Safety and IT selected the GenSuite Safety Management System (SMS) to improve the quality, automation, and use of safety data. Injury dashboards and

automated reports will be available to leadership in the second half of 2022, with the rollout of the Incidents & Measurements application.

Chronic Muscular Injuries. The SMUD Safety Team continues to work with business units to a reduce all incidents. This year, the following actions were taken to focus on a reduction to chronic muscular injuries: SMUD leadership and employees worked together to continue to build trust. Safety continued to partner with SCORCH (behavior-based) Committees to utilize data from home observations and what at-risks were trending. Safety then used this data for areas to focus on during ergo evaluations and quarterly safety meeting topics.

Safety for Life efforts continued with Sparky's Crew sending quarterly safety newsletters, postcards, birthday cards and reaching out for children's artwork for the Safety Calendar.

Safety continued crew and contractor safety field visits, getting eyes on work and ensuring our employees, contractors, customers and community are safe. The Safety team has made additional updates to safety standards and trainings both in person and virtual. In addition, SMUD continued the field ergonomic program with Power Generation and started a pilot Injury Prevention Outpost with Line Division, at the end of the Q4 2021.

Wildfire Smoke. This year, in May and June, Safety held several Tabletop Exercises with our various leadership teams who have outdoor workers, to prepare for the use of the Purple Air monitoring system and reporting, in cab vehicle air filters, PPE, scheduling, and training as a different method to inform and assist with response of poor air quality days, should the need arise. We sent a voting email to all leadership to determine the need and interest of receiving Wildfire Smoke Alerts throughout the organization for these events. This year, to date, we have had 5 days of notifications, of which, were only provided to the UARP personnel due to the Oak and Electra Fires.

5. Recommendation

SMUD is committed to becoming a recognized leader in safety. Both SMUD's leadership team and employees recognize that to achieve success we must integrate safety into all that we do. It is recommended that the Board accept the Monitoring Report for SD-6.

6. Appendices - Business Segment Safety Program Improvement Initiatives

Energy Delivery and Operations (EDO). Grid Assets leadership is continuing its efforts to achieve World Class Safety with ongoing efforts, of encouraging field staff input and participation in Business Unit and Work Group specific Joint Labor Management Safety Committees (JLMSCs), which include representatives from Field, Supervision, Union, Warehouse, Fleet and Safety in attendance. The Quarterly Business Segment JLMSC continues with an "All field teams' approach" at SMUD, allowing for the sharing of ideas and mitigation controls, of similar risks. Due to COVID-19 impacts, these meetings continue to be held via Teams. A few of the subjects addressed this year which directly affect field staff have been SMS roll out of the Concern Report App, SCORCH Observation App, and Monthly Vehicle Inspections and Housekeeping Inspections in the Inspection Tool App; FR Clothing product substitution with like products (in response to global supply chain issues); procurement of a healthier electrolyte alternative and cooling hard hats for high heat in the summer months. Field crew response continues to be positive, for the safety improvements being made, recognized, and appreciated. During the first half of the year, Safety has partnered with ED&O field operations to roll out a highly effective, innovative field focused ergonomics program. Instead of having staff come in from the field to interact with the ergonomics specialist, the expert is going out to the job site. During this crew specific, 1-1 discussions various stretching techniques, ergo support tools are provided, and awkward postures are identified. This program started with the Line department and is quickly moving throughout the organization.

Safety has continued to work with the SMUD Power Academy, through the COVID pandemic, reviewing internal and external safety training programs, to ensure continued consistency and quality. This year, the SMUD Power Academy has been invited to participate and collaborate in the Health & Safety Standards update reviews, for input and identification of training opportunities.

The Safety Team continues to provide required health and safety training to field employees, utilizing smaller class sizes, updated signage, use of temperature stations, improved sanitization, PPE, and pre shift wellness checks. This adjustment to the safety training delivery has prevented any COVID related illnesses spread or outbreaks by the field crews during their participation in SMUD Safety training at the Power Academy, ECOC, Fresh Pond, or other SMUD reporting facility.

To ensure the Safety for Life culture continues to evolve during this time of social distancing and remote work, more emphasis will be placed on Safety for Life communications and testimonials. There were two employee shares this year in our Employee Safety for Life Newsletter. One newsletter was a personal share about how the wildfire smoke affected her and how she safely evacuated her home, and the other was a share about an employee's son being bitten by a rattlesnake which offered information about myths and how to keep others safe. The Safety team hosted three driving rodeos this year for the Telecom, Meter Reading and Energy Specialist teams and has one more scheduled in fourth quarter for the Facilities teams. Safety for Life Sparky's Crew for SMUD children consisting of birthday cards, safety newsletters, postcards, and the safety calendar with children's artwork, has continued throughout the pandemic.

It is important to maintain health and wellness with the ever-changing landscape we are currently working through. Health & Safety realizes the environments in which we live, work and

play, impacts our well-being. The wellness program embraces a holistic approach that includes physical, financial, social, spiritual, and emotional wellness to support positive behavioral changes. Wellness activities were designed to support all employees, whether working on-site or remotely, through virtual wellness programs and activities. These activities focused on improving overall health, through on-line stretch breaks, workouts, nutritional seminars, and cooking demos, all to support physical health. In 2022, Health and Safety partnered with Wellness to establish guidelines to safely re-open locker rooms and showers to accommodate bike commuters and runners that have returned to campus. Earlier this year a new mental health workshops brought awareness to emotional health and provided tools and resources to support employees and their families. The new Mental Health Hotline was introduced for people dealing with a mental health crisis can now call the national hotline by dialing 988 for help. Health and Wellness efforts continue to focus on employees and their families, empowering them to promote and model positive attitudes and behaviors through a lifelong commitment to wellness.

Zero Carbon Energy Solutions (ZCES). Since the beginning of the COVID-19 pandemic, Power Generation has prioritized employee safety while ensuring that critical work is completed. The Upper American River Project (UARP) increased work planning efforts to isolate crews and document work routes in case contact tracing was needed. Gas Pipeline began reporting directly to the field, to limit employee to employee contact. Meetings that include JLMSC updates, tailboards, safety meetings and safety training, including annual crew training, have continued with appropriate modifications to occur virtually, or when an in-person meeting is required, social distancing is utilized.

Power Generation employees continued with their Savvy FIT Daily Dozen for soft tissue injury reduction. As a result, soft tissue injuries continue to trend down.

In addition to the COVID-19 Pandemic, Power Generation has also responded to extreme high heat and wildfire smoke events. Multiple employees have been fit tested for N95 respirators, so they are able to respond to emergency call-outs.

In February 2022, Hydro Operations received the highest Cal/OSHA recognition, VPP Star status. VPP is designed to recognize employers and their employees who have implemented safety and health programs that effectively prevent and control occupational hazards. These programs go beyond minimal Cal/OSHA standards and provide the best feasible protection at the site. Achieving this status ensures that Hydro will continue with safety process improvements with annual comprehensive safety audits performed by a third party. Their 2022 audit will take place in September.

Management commitment and employee participation are key elements in achieving VPP recognition. VPP establishments are considered leaders in the field of workplace safety and health. GPO continues to meet and prepare for their Cal/OSHA audit.

Some of the major projects completed by Hydro employees include the Camino unit 1 generator maintenance consisting of rotor and stator cleaning and repair. Camino unit 1 and 2 breakers and switch gear were also replaced. In 2022, the Rubicon Reservoir flow meters and pipe were replaced all projects were high hazard work and were completed without injury or incident.

Customer & Community Services (CCS). Safety worked closely with CCS and Security to safely re-open the CSC lobby to full capacity. CCS initiated the dunning process that drove more customer into the lobby and all five customer windows were opened to support the increase of customer traffic. COVID-19 safety protocols remain in place to protect employees, contractors, and members of the public. The front lobby parking lot project is well underway for upgrades to meet ADA compliance and is scheduled for completion by Q4, 2022.

Corporate Financial and Administrative Services (CFAS). Facilities and Safety continue to partner on re-entry efforts and Home-Based Agent workspace installations to ensure ergonomic comfort for employees in office and at home. COVID-19 mitigation measures continue in the office workspace to protect all employees, contractors, and the public. Facilities has integrated Monthly Vehicle Inspections into SMS through the Inspection Tool application for easy access and data trending. Facilities continues to support the SMUD 2030 Zero Carbon goal by supporting the installation of EV Charging infrastructure throughout SMUD campuses as a united effort with SMUD contractors.

This summer, the Sacramento area has experienced record-breaking high temperatures throughout the region. Warehouse has partnered with Safety in heat-illness prevention mitigations to ensure all field employees have access to cool water, portable shade, and UV skin protection. During days with high heat hazards, Warehouse provides electrolyte-replenishing beverages to field employees. Safety and Warehouse have collaborated with various business units to pilot new hard-hats with advanced ventilation designs to improve the comfort of our field employees wearing mandatory personal protective equipment while performing essential work in high heat environments.

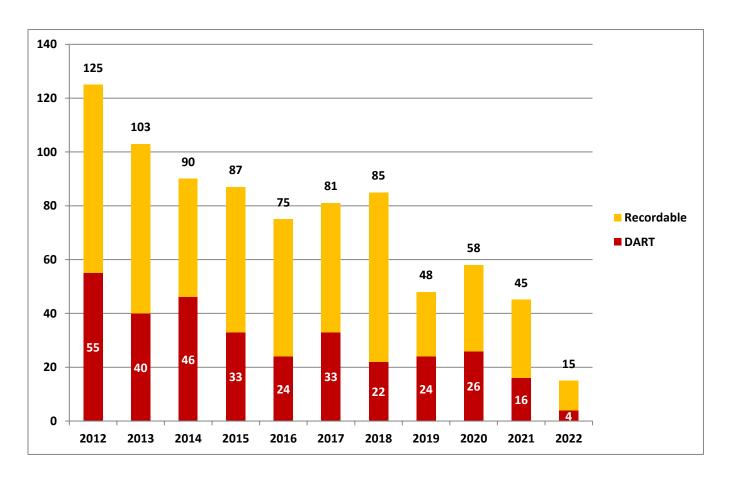
Fleet and Safety collaborated in integrating Motor Vehicle Accidents reporting into SMS and in improving the Monthly Vehicle Inspections in SMS by including vehicle cleanliness as an inspection item to improve cleaning and disinfecting measures before servicing. Fleet employees are participating in EV training courses customized to suit SMUD's needs in preparation for the transition to an all-electrified fleet by 2030.

All business units continue to partner in a consultative collaborative development of a World Class Safety program as One SMUD. One project that continues to support onsite personnel and operations by the Facilities department is installation of a passive HVAC ionization system called, needlepoint bipolar ionization (NPBI). Thus far DSO and SPA operations have units installed. With additional areas of the campus being assessed. These units have demonstrated performance in reducing indoor air particles during smoke wildfire events.

Driver Safety. In 2022 the Driver Safety program was reimplemented with COVID-19 safety protocols in place. Supervisors began conduction side by side ride alongs, in-person Smith System driving classes resumed and more Driving Rodeos were scheduled to meet demands. Due to the closure of 59th Street, the Driving Rodeo relocated to the HQ west parking lot however, with more employees returning to campus, another location was secured to accommodate the driving course. Safety and Facilities staff partnered with Safetyville to reserve space at the Army Depot for storage of equipment and supplies and set up multiple stations for the driving rodeo.

Appendix A

DART Count and OSHA Recordable 2012-2022





RESOLUTION NO) .			

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

This Board accepts the monitoring report for Strategic Direct	ction SD-6,
Safety Leadership, substantially in the form set forth in Attachment	_ hereto and
made a part hereof.	

SSS No.	
AES22-109	

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Policy – 10/12/22
Board Meeting Date
October 20, 2022

		ТО		ТО						
1.	Claire Rogers			6.	Farres Everly					
2.	Lora Anguay			7.						
3.	Jennifer Davidso	on		8.						
4.	Suresh Kotha			9.	Legal					
5.	Brandy Bolden			10.	CEO &	& Genera	al N	Ianager		
Cor	sent Calendar x	Yes No If no, se	chedule a dry run presentation.	Bud	geted	x Yes		No (If no, exp section.)	lain in Cos	t/Budgeted
FRC	M (IPR)	- L - L	DEPARTMENT	ı	ı			MAIL STOP	EXT.	DATE SENT
	Hamzawi		Zero Carbon Energy	Salut	ions			A203	5449	9/16/2022
	RRATIVE:		Zero Carbon Energy	Solut	10113			A203	לדדל	J/10/2022
Rec	quested Action:	•	ng report for Strategic Dir							
	Summary: SD-10 supports innovation by investigating emprovide value for SMUD, our customers, and opprojects designed to balance risk with potential provide operational improvements, provide a nexpand our ability to deliver on our carbon red			our co il env more	ommunit ironmen sustaina	ty. SMUI	D h	as developed omic benefit	d a divers s that are	e portfolio of intended to
	Board Policy: (Number & Title)	SD-10, Innovation								
	Benefits:	Benefits sought include accelerated technology deployments, innovative products & services, and an improved ability to meet SMUD's strategic directives such as environmental protection and climate change, reliability, local control, and energy efficiency and renewable energy goals.								
,	Cost/Budgeted:	ed: Activities represented in the monitoring report were budgeted in the respective year in which they occurred.					they occurred.			
	Alternatives:	Do not accept the monitoring report.								
A	ffected Parties:	Zero Carbon Energy Solutions, Enterprise Strategy, Customer & Community Services, Energy Delivery, Information Technology					y Delivery,			
	Coordination:	Zero Carbon Energy	y Solutions, Advanced Ene	ergy S	Solutions	s, Researc	h &	d Developme	ent	
	Presenter:	Ed Hamzawi Direc	utions	i.						

Additional Links:			

SUBJECT
SD-10, Innovation Board Monitoring Report

TEM NO. (FOR LEGAL USE ONLY)

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

SMUD-1516 1/16 Forms Management Page 0

SACRAMENTO MUNICIPAL UTILITY DISTRICT

OFFICE MEMORANDUM

TO: Board of Directors DATE: September 28, 2022

FROM: Claire Rogers CR 9/28/22

SUBJECT: Audit Report No. 28007433

Board Monitoring Report; SD-10: Innovation

Audit and Quality Services (AQS) received the SD-10 *Innovation* 2022 Annual Board Monitoring Report and performed the following:

- A review of the information presented in the report to determine the possible existence of material misstatements;
- Interviews with report contributors and verification of the methodology used to prepare the monitoring report; and
- Validation of the reasonableness of a selection of the report's statements and assertions.

During the review, nothing came to AQS' attention that would suggest the SD Board Monitoring report did not fairly represent the source data available at the time of the review.

CC:

Paul Lau

Board Monitoring Report 2022 Strategic Direction, SD-10 Innovation



1) Background

SD-10 States: Delivering innovative solutions, products and services to our customers is a core value. To assure our long-term competitiveness, SMUD shall invest in research and development projects that support its core and key values, and integrate emerging technologies and new business models into SMUD's customer offerings in a way that balances risk and opportunity and benefits our customers and community.

2) Executive Summary

SMUD's Research & Development portfolio (R&D) addresses innovation and challenges in *electric transportation, energy efficiency, building electrification, load flexibility, thermal transition, and climate change.* The research provides insight into future planning and supports the development of near-term technology solutions for SMUD customers and the grid, in support of SMUD's target of zero carbon by 2030 and associated thermal transition. A number of foundational initiatives were launched or expanded this year to support SMUD's Zero Carbon Plan (ZCP) goals and significant effort was expended supporting the development of grant concepts to prepare SMUD to take advantage of pending state and federal funding opportunities.

Our conclusion is that SMUD is in compliance with SD-10 Innovation.

SD Requirement	Purpose	Outcome	Notes
Project Implementation	Project distribution indicates breadth of portfolio diversity and prioritization of program areas.	42 active projects in 2022. 7 projects are complete as of September 1, 2022 ¹ .	This reflects a 35% decrease in active projects and 56% reduction in completions compared to previous reporting period.
Risk	Technology risk assesses ability to meet expected performance goals. Implementation risk assesses probability of deployment.	74% of projects are deemed low to medium-low technology risk. 72% are deemed low to medium-low implementation risk.	The risk portfolio is consistent with the previous reporting period. Potential risks are managed by creating a diversified portfolio and partnering with other entities to distribute risk and mitigation.
Benefits	Research stage and benefits timeframe indicate the relevance of portfolio to address customer needs and strategic planning.	79% of projects are in stages 4-5². 91% are expected to provide benefits to SMUD or customers within 5 years.	Percent of stages 4-5 is consistent with 2021's 80%, reflecting the shift in focus to near-term applications. Benefits time frame is consistent with 2021.

Table 1: SD Requirements Compliance

¹ Reporting metrics and achievements reflect the reporting period of October 1, 2021 – September 1, 2022.

² Stage 1 - Preliminary Investigation, Stage 2 - Concept Definition/Lab scale, Stage 3 - Concept Development (Prototype/bench scale), Stage 4 - Technology Development and Verification (pilot scale; field testing), Stage 5 - Commercialization

3) Additional Supporting Information

Project Implementation

SMUD's Research and Development team has the primary responsibility of meeting SD-10; however, notable relevant innovation occurs throughout SMUD.

Electric Transportation (ET)

Transportation electrification will improve air quality and reduce net greenhouse gas emissions and petroleum consumption to support energy sustainability, while creating new revenue streams for SMUD. This strategy is supported through investigation of mitigation of grid impacts due to charging, improvement of electric vehicles (EV) value via pricing signals and remote controls, increased EV adoption and access to charging.

Key Achievements:

- SMUD was awarded \$2.23M by the California Energy Commission REACH grant for the ChargeReady Community project, which will deploy EV chargers in underserved multifamily homes. SMUD expects to sign the grant agreement with the CEC in Q4 2022, which will fund 60% of the total project cost.
- The Residential Managed EV Charging project launched and enrolled the first customers Q3 2022. SMUD is partnering with GM, Ford and BMW to incentivize Sacramento-area customers to charge their EVs when it's most beneficial to the electric grid, using plentiful renewable energy. Customers plug in their vehicle and let the automaker know when their vehicle needs to be charged via a secure remote home charging management tool and smartphone apps.
- Building off the experience implementing the BESTFIT grant supporting the Twin Rivers
 Unified School District with equipment specifications and interconnection to pilot
 managed charging (V1G) and Vehicle-to-Grid (V2G) capabilities of electric school buses,
 SMUD is working to expand the pilot for V1G and V2G capabilities to other school
 districts and vendors with electric school bus fleets.
- SMUD's Fleet department is purchasing 5 medium-duty all-electric utility trucks from Zeus. Delivery of the trucks has been delayed by regulatory and technical issues, but they are in production and have received approval for state incentives for electric vehicles. R&D evaluation will commence upon delivery of the trucks.

Energy Efficiency (EE) & Electric Buildings (EB)

This program area optimizes energy delivery costs and improves grid asset utilization through targeted, time-specific energy efficiency and building electrification as well as by capturing permanent outcomes in building codes. R&D explores emerging and underutilized technologies; working to enhance advanced applications in building decarbonization and energy efficiency and increase technology adoption

Key Achievements:

 SMUD returned as a founding sponsor and contributing member of the Advanced Water Heating Initiative, an initiative formed to increase adoption of heat pump water heaters nationally. SMUD R&D team members lead the AWHI Residential Group, and a task group delivering a proposal for national Data Standardization and Sharing.

- The 120V Heat Pump Water Heater Field Trial has begun installations in customers' homes. 12 installations are expected to be completed in 2022, with monitoring and analysis complete by early 2024. The trial will investigate potential installation, performance, or customer satisfaction issues with these new units that avoid the need for a new 240V circuit to electrify the water heater.
- Completed evaluation of a novel, central heat pump water heater design without electric resistance backup elements at St. Francis Manor, a high-rise 128-unit senior community. Analysis showed 20% bill savings and 54% reduction in CO2 emissions annually compared to the gas boiler that was replaced.
- Staff completed phase 1 of the Home Infrastructure Planning project, creating a data collection and cleaning process for data sourced from inside and outside SMUD.
 Analysis to identify the magnitude and shape of load impacts to residential customers due to home electrification retrofits will be used in Phase 2 starting in 2023 to develop tools and forecasts to help distribution planners and customers make optimal decisions regarding utility service upgrades.

Load Flexibility

This program supports cost-effective, reliable, scalable flexible resource growth to serve future grid needs. R&D determines functional, operational and market viability of flexible loads to align supply and demand, give customers bill management options, improve air quality, and reduce carbon emissions.

Key Achievements:

- SMUD launched the My Energy Optimizer, Partner level, in June 2022 to evaluate aggregator management of multiple customer DERs to support grid services. The pilot leverages an aggregator to enroll customers and automate the response of their smart thermostats and batteries to utility dispatch signals, including a subset of customers enrolled on SMUD's Critical Peak Pricing rate. SMUD is launching Partner+ this fall, a program that leverages customer-owned and sited battery storage to operate a Virtual Power Plant, maximizing value to customers and benefitting the grid at times of high carbon intensity.
- SMUD is partnering with UC Davis and Panasonic to pilot the EnergyKit home energy management system in 8 SMUD customer homes. Customers will be able to automate their electric appliances, optimizing for comfort, convenience, and cost, in response to SMUD dispatch signals.

Thermal Transition

R&D pursues innovative grid, storage and generation solutions to facilitate SMUD's goal of zero carbon by 2030 and accelerate interconnection of grid-connected systems and devices to ensure safe and efficient operation. This program supports system reliability and reducing emissions through alignment of DERs and zero-carbon generation with grid needs. It seeks to improve grid reliability through reduced outage frequency and duration; control of the distribution system, voltage and frequency variations, and

overload conditions; and optimize grid benefits of DERs through advancing integration standards and coordinated automation.

Key Achievements:

- SMUD completed construction and all commissioning tests for grid support functionality
 for our first utility-scale battery project adjacent to Hedge substation. SMUD also
 received an EPRI Technology Transfer award for applying phase 1 of the EPRI Fire
 Prevention & Mitigation Project to the Hedge Battery. SMUD enrolled in phase 2 which
 includes developing training for first responders.
- Q3 2022, staff issued a Request for Information regarding Long Duration Energy Storage solutions to support SMUD's Zero Carbon Plan. The intent is to identify promising technological solutions to provide 300 MW of long duration energy storage with duration capability at least 8-10 hours at full output to maintain resiliency in an increasingly renewable generation portfolio.
- The EPRI supplemental project assessing NET Power's Allam Fetvedt Cycle (a Super Critical CO2 Cycle) found that this carbon capture technology is not yet ready for utility implementation.
- The analysis of alternative fuels shortlisted two zero carbon fuel types (Renewable Natural Gas and Hydrogen) and five pathways as deserving of closer scrutiny. The five pathways include Renewable Natural Gas from dairy, landfill, wastewater and Forest Waste Biogas and Electrolytic Green Hydrogen.
- SMUD is one of 20+ industry and academia participants and eight National Labs
 collaborating on \$12.45M DOE grant for hydrogen blending research. Testing is
 underway to understand what upgrades to our pipeline would be needed to support up to
 100% replacement of natural gas with hydrogen, supporting SMUD's zero carbon goal.
- The PREconfiguring and Controlling Inverter SEt-points (PRECISE™) software tool was developed at the National Renewable Energy Laboratory, with SMUD collaboration, and won the R&D 100 Award in 2019 from R&D World Magazine. In 2022, SMUD successfully finished implementing the tool with SMUD systems to enable interconnection of more behind the meter (BTM) PV while mitigating grid power quality issues by leveraging advanced inverter settings.
- Installed and began testing direct communication to smart-inverters to evaluate their potential to support distribution operations via the DERMS and the ability to replace PV production meters for residential customers.

Climate Change

This program provides technical, economic, and policy expertise on climate change and impacts to SMUD territory. It compliments SMUD's Zero Carbon Plan and aligns with our board direction to address climate vulnerabilities, and we partner with our customers and community on mitigation opportunities and regenerative, net positive projects.

Key Achievements:

Carbon Farming and Ecosystem Service Research kicked off at Rancho Seco II. The
project will evaluate the use of native pollinator plant species to reduce operational costs
associated with vegetation management, erosion control and fire protection at utility

solar sites, quantify the impact on the power production of the PV system, and measure the carbon captured and sequestered in the soil by these plants.

Enterprise-Wide Innovations

While SD-10 innovation goals are met by R&D research programs, additional notable achievements occurred across SMUD supporting progressive customer offerings.

- The Innovation Program has continued to encourage employee participation in innovation at SMUD to accelerate digitization, drive acquisition of new data, embrace new technologies, expand new business models, and build new ecosystems to solve for SMUD's 2030 zero carbon objective and operational efficiencies. In 2022, 38 new ideas were submitted through IdeaHub, bringing the total to 79. Concepts successfully operationalized include:
 - Name Pronunciation Recording enables employees to record how to properly pronounce their name, which promotes equity and inclusion.
 - RealWear Headsets enable multiple subject matter experts to virtually attend a site visit with only one staff member physically deployed in the field, reducing travel and associated risks and costs.
- ADMS development complete, implemented Q3 2022. DERMs Phase 1 developed, implemented Q3 2022. Phases 2-3 are planned to go live Q1 2024.

Summary

As SMUD shifts to implementation of the 2030 Zero Carbon Plan, R&D has focused on ramping up efforts supporting thermal transition and load flexibility technologies and business models leveraging storage, electric transportation, and buildings, while we continue to advance research in climate change. These innovations expand customer choice and offer new solutions toward a low carbon future. Our diverse portfolio helps maintain long-term competitiveness and balance risk with potential environmental and economic benefits, ensuring community benefits.

4) Challenges

2022 continued in a primarily remote work environment due to the ongoing health pandemic, with increasing concern about supply chain and inflationary impacts. The new Enterprise Prioritization process involved a learning curve for staff submitting proposals for research and innovation. Staff resources were balanced between project planning and implementation and grant planning and acquisition to reduce SMUD's cost for research and demonstration projects. R&D revised the team reporting structure to better reflect two pillars of the zero carbon plan, thermal transition technologies and customer programs, and staff time was focused on providing subject matter expertise for efforts supporting zero carbon by 2030.

5) Recommendation: Recommend the Board accept the SD-10 Monitoring Report.

Table 2: R&D Projects

Research Program	ID	Project Name	Project Description	SD-10 Benefits	Start Date	End Date	Ward
Building Electrification	11	Direct Bury Customer and Building Analysis	Identify the locations, characteristics, and electrification market barriers for customers who are currently served by direct burial cables (DBC).	This will provide insights into the characteristics of DBC customers, and the related challenges to SMUD's decarbonization efforts.	9/28/2020	12/31/2021	All
Building Electrification	12	Electrification Readiness Study	Conduct an expedited utility industry analysis to identify key insights from utilities, community choice aggregators (CCAs), and other key market actors to accelerate electrification programs. The analysis informs a research-based approach for accelerating SMUD's own electrification programs.	Establishes a new paradigm for how research informs the development of incentive programs. Identifies opportunities for incentive programs to maximize outcomes like GHG savings, equity, and affordability. Creates rapid feedback on the performance of new technologies within programs.	8/20/2020	1/28/2022	All
Building Electrification	67	St. Francis Manor Central HPWH Study	SMUD staff will monitor the performance and benefits of converting a gas powered (boiler) domestic hot water system to a heat pump water heater (HPWH) driven system. The system will allow the customer to electrify the bulk of the hot water demand while not straining the electrical panel.	Confirm the realized savings and benefit of replacing existing boiler and gas-powered hot water systems in a central plant, which will inform replacements for the 50-100 similar commercial sites within SMUD territory that could electrify the hot water system.	4/1/2021	5/31/2022	5
Building Electrification	72	120V Heat Pump Water Heater Field Trial	Objective is to overcome electrification barriers by increasing options that reduce impacts on panel upgrades and provides solutions for space constraints such as multifamily. Conduct a statewide field trial of 120V heat pump water heaters, to ensure their performance meets the needs of customers, and to investigate typical installation costs and technical hurdles. The field trial is being conducted in coordination with other CA utilities as part of the Advanced Water Heater Initiative. 12 homes in SMUD territory will take part, out of a project total of around 60 homes.	SMUD will be one of the first utilities nationally to deploy 120V HPWH as part of a program. In parallel with introducing this new technology without delay, SMUD is testing its effectiveness in the field, in order to make course corrections to the technology and program delivery as needed.	4/27/2021	12/31/2023	All
Building Electrification	112	Home Infrastructure Planning Phase 1	Phase I leverages historical SMUD single-family electrification programs data to understand drivers for service panel upgrades. Collaboration with SMUD IT will generate Machine Learning predictions based on building attributes, customer demographics, and existing infrastructure. In later phases, these predictions will be the basis for customer engagements on building electrification, incentives programs, and predictive distribution planning.	Generating insights about infrastructure upgrades for SMUD distribution planners, electrification program designers, and SMUD Customers. The innovative tools produced in this project will help scale programs and optimally allocate resources towards 2030 ZCP goals.	10/22/2021	11/25/2022	All

Building Electrification	115	Advanced Water Heating Initiative 2022 Sponsorship	SMUD is continuing as a 2022 sponsor of the Advanced Water Heater Initiative, which seeks to dramatically expand the heat pump water heater market using advocacy, program alignment, and research. SMUD was a founding sponsor of AWHI in 2021. The U.S DOE supports the initiative.	The project will set out a consensus agenda and process for water heating research, specifically joint research between utilities. It will also bring together best practices to ensure that SMUD and other utilities are implementing the most innovative programs.	1/1/2022	12/31/2022	All
Climate Change	64	Carbon Farming and Ecosystem Service Research at RSSII	Conduct field experiments at Rancho Seco to research ecosystems and evaluate the use of native species/pollinators to reduce the operational costs associated with vegetation management, erosion control, and fire protection. The project will explore the effects of vegetation and panel layout on PV generation and soil carbon.	The project will help identify and demonstrate strategies to integrate ecosystem services and agricultural value into large scale solar projects, helping to mitigate their environmental impact and build public support for their continued construction, assisting SMUD in achieving the 2030 ZCP.	1/30/2021	1/30/2026	2
Climate Change	96	EPRI Evaluating Landholdings for Monarch Habitat	The SMUD Pollinator working group will determine recommended actions, including proposed acres, timing and cost for enrollment in the CCAA, if appropriate.	Assists SMUD in understanding opportunities and costs associated with enrollment in the Monarch butterfly CCAA and compliance with a potential future Endangered Species Act listing.	3/1/2021	7/31/2022	All
Climate Change	109	Natural Refrigerant Incentive Pilot Program	Provides incentive for customer natural refrigerant systems, replacing super-polluting conventional refrigerants with high global warming potential. SMUD's first incentive program based on GHG reduction, not kWh savings. Monitored field pilots are underway at Grocery Outlet and Raley's stores in Sacramento.	DEED grant funding (\$125K) was secured to support the Grocery Outlet project and technology transfer. First of its kind for the utility industry, this program demonstrates SMUD's leadership in leveraging relationships with our customers to help them save money and reduce GHG emissions in the region.	1/1/2018	12/31/2022	All
Electric Transportation	15	Zeus Electric Truck Deployment	Collaboration with the California Mobility Center and Zeus Electric Chassis to deploy and test five Medium-Duty Electric Vehicles. Five unique configurations of the Zeus truck will operate in SMUD's fleet to study the performance, duty-cycle, and costs associated with utilizing electric trucks.	Inform both SMUD operations and customers of the challenges and benefits of fleet electrification. This project synergizes with the launch of the California Mobility Center which will support local economies and improve health and safety in DACs.	1/3/2023	6/30/2023	All
Electric Transportation	17	Del Paso Mobility Hub	Help create an e-Mobility hub for different modes of transportation, such as taxis, Uber, Jump, buses, etc. It will also include EV charging capability as well as gig cars. The first project in execution is the Del Paso Mobility Hub.	This is a novel project and transportation facility concept. It includes electric and fuel cell vehicles, including an electric shuttle, EV charging, shared vehicles, electric micro-mobility (ebikes and electric scooters) and transportation services.	9/1/2022	8/31/2023	5
Electric Transportation	18	Mobi EV and Gen Charger Loan Pilot Program	Test and understand the technical and economic viability as well as the logistic application of mobile electric vehicle (EV) chargers and battery powered generators to support the development of transportation electrification and elimination fossil fuel generators. SMUD loans the units to customers who can demonstrate they have a need for the chargers at no cost.	Acquire knowledge about mobile battery powered EV chargers and generators, which may play key roles in transportation electrification. This pilot also yields learnings regarding loan programs and potential revenues from rental units.	8/3/2020	3/31/2022	All

Electric Transportation	20	Twin Rivers Commercial Managed Charging (V1G, V2G)	Incorporate electric school buses and light duty vehicles to evaluate the effectiveness of managed charging and vehicle-to-grid capabilities to balance impacts on customer and utility electrical distribution and create value through grid services.	V1G findings will support smart charging applications which can mitigate customer charging costs and support grid management and deferred infrastructure upgrades. Reduce grid impacts, reduced customer infrastructure build-out cost, wholesale energy or capacity cost avoidance, and mirror characteristics of stationary storage using V2G.	1/30/2021	9/30/2024	5
Electric Transportation	21	EPRI Qualification of EVSE	Produce a compliance matrix for EVSE that SMUD will be able to use to qualify EVSE vendors for our EV-related programs.	Increase EV adoption by having publicly available working charging stations in high trafficked areas.	1/6/2020	3/31/2022	All
Electric Transportation	22	Residential Managed EV Charging (V1G)	Actively manage residential EV charging times and peak power consumption. Managed EV charging can enable deferment of distribution system upgrades, smooth the duck curve, reduce renewable generation curtailment, and provide import and export arbitrage opportunities.	Benefits include reduction of the financial risks associated with transportation electrification, specifically by mitigating the risk of overloading electrical distribution infrastructure. Another secondary benefit is to better align energy delivery for charging with low-cost energy supply.	10/1/2021	12/30/2024	All
Electric Transportation	24	SMUD-Owned EVSE	Operation and maintenance of SMUD's public level 2 and DCFC charging stations.	Increase EV adoption by having publicly available working charging stations in high trafficked areas.	1/1/2014	12/31/2027	All
Electric Transportation	97	ChargeReady Community	ChargeReady Community is the Sacramento region's replicable, equity-first EV charging solution for multi-family housing (MFH). Powered by SMUD and in partnership with community-based organization and site host Mutual Housing California and Sacramento Metropolitan Air Quality Management District, ChargeReady Community will deploy a pilot model that transitions EV charging in under-resourced communities from inaccessible amenity to expected, critical infrastructure.	Help SMUD better understand the challenges and opportunities of deploying EVSEs in multi-unit dwelling in underserved communities, helping SMUD advance the adoption of electric transportation, which contributes to GHG emissions reductions, and promoting equity in transportation.	5/11/2022	6/30/2025	All
Electric Transportation	104	Light Duty Fleet V2G	This project will test and demonstrate V2X functionality on campus with capable fleet vehicles such as the Nissan Leaf and Ford F150 Lightning. We hope to understand interconnection process, installation requirements, and V2X functionality through this project before proposing a larger scale pilot.	Informed deployment of light-duty V2X will reduce grid impacts and customer infrastructure build-out costs. LDV fleet management can also offer wholesale energy or capacity cost avoidance, and mirror characteristics of stationary storage.	1/1/2022	12/31/2023	All
Electric Transportation	107	V2G Commercial Expansion	This project will build off the electric school bus project with Twin Rivers Unified School District. We will demonstrate and test Automated Load Management, Managed Charging, and Vehicle to Grid functionality with electric school buses and other capable EVs.	Reduce grid impacts, reduced customer infrastructure build-out cost, wholesale energy or capacity cost avoidance, and mirror characteristics of stationary storage using V2G.	1/1/2022	5/30/2024	All

Energy Storage	5	Residential Energy Storage Programs	Continuation of Residential BTM energy storage systems including Commitment to Operate, Smart Energy Optimizer, and PowerMinder. Study of these systems will answer research questions regarding how customers respond to dispatch models, what communication standards could promote battery manufacturer relationships and data communication quality.	Residential BTM energy storage are customer-facing innovations that will provide resilience and system benefits to customers and SMUD alike. This work will inform future pilots including Multi-DER and Capacity Contracts VPPs.	1/1/2021	12/31/2023	All
Energy Storage	6	Hedge Utility- Scale Battery	Deployment and operation of a 4 MW / 8 MWh utility-scale storage battery to test different operational modes and grid interactions.	The Hedge Battery supports the StorageShares program and SMUD's goal of adding 1,100 MWs of battery capacity in the coming decade. Proximity to the Sacramento Power Academy training facility will foster opportunities for workforce development in battery storage operations.	3/1/2019	12/31/2023	3
Energy Storage	26	Integrated EV Charging with Storage and Solar PV	Install and test a new 175 kW DC Fast Charger and 2nd-life battery storage. Integrate solar, storage, and EV charging into an advance site controller.	Help promote EV adoption by using load management to prevent unnecessary infrastructure installations, ultimately saving the customer and SMUD time and money.	11/5/2018	12/31/2021	3
Energy Storage	29	Sunverge in Schools	Partner with schools to install eight battery energy storage units at high schools or colleges to provide early hands-on education of battery energy storage systems.	Support local workforce development by developing a battery energy storage curriculum and installing battery energy storage system at educational institutes.	1/1/2021	12/31/2022	
Energy Storage	87	LDES Market & Technology Report	This project performed detailed technology and cost characterization of Long Duration Energy Storage (LDES) technologies. Perform an assessment of the viability and adoption of LDES that provide compelling features to help mitigate the issues associated with variable and intermittent renewables by improving its dispatchability and help meet or exceed SMUD's Zero Carbon Plan (ZCP). Investigate current, planned and potential LDES technologies that will provide highest values to SMUD. Perform comparative analysis of viable LDES technologies, discuss pros & cons, along with attributes for next steps that will meet or exceed ZCP.	Empower SMUD planners to make confident technology decisions along the flexible path to zero carbon. These technologies will provide grid stability and predictable electricity prices for SMUD customers.	4/29/2021	4/29/2022	All
Generation and Sequestration	34	Dairy Digesters eRIN Applications	Develop and submit the biogas-to-electricity pathway applications for Van Steyn, Van Warmerdam and New Hope dairy digesters under the Renewable Fuel Standard (RFS) for electricity Renewable Identification Number (eRIN) credits, generated when electricity produced from dairy digester biogas is used to charge electric vehicles in SMUD service territory.	The use of eRIN credits could unlock \$0.12/kWh to \$0.33/kWh of electricity generated for electric vehicle charging. This legal and financial innovation offer sound investment into biofuels production and carbon-negative transportation for electric vehicles.	1/1/2021	12/31/2022	7

Generation and Sequestration	38	PRECISE Project Phase 2	Evaluate PV interconnection applications and identify the advanced inverter settings that each PV system to be set to. This process will significantly save SMUD engineer's time and yet maximize the benefit of each asset.	Increased safety and avoiding reprogramming of advanced inverters post-install, and minimizing curtailment. Deploying the tool in a real utility environment would advance chances of commercialization of PRECISE and revenues to SMUD.	1/1/2019	6/30/2022	All
Generation and Sequestration	39	LCFS Electricity Pathways for Dairy Digesters, Solar and Wind	LCFS Electricity pathway applications for Van Warmerdam, Van Steyn and New Hope dairy digesters, wastewater biogas and wind/solar that perform carbon intensity life cycle modeling, certification, verification, monetization, and reporting for LCFS credits to charge electric vehicles in SMUD territory. This initiative stimulates revenue generation, supports the growth of electric transportation and advanced renewable generation and helps achieve carbon zero target goal.	At full utilization of the 30 dairies and 14,000 cows in SMUD territory, the dairy digesters could offset a minimum of 70,000 Metric Tons of CO2 per year, while garnering \$12.6 Million per year in LCFS credits. In 2021, Van Warmerdam and Van Steyn reduced 7,856 MT of GHG worth \$1.2M LCFS. This project also proved the financial viability of Zero Carbon Intensity (CI) wind generation, which garnered approximately \$1 Million from LCFS.	6/1/2019	12/31/2030	All
Generation and Sequestration	55	DER Carbon Tool	Expand DER planning and modeling tool that assesses carbon reduction/savings, budgeting, portfolio optimization, cost effectiveness and load forecasting to include EE, Load flexibility, ET solar PV and battery storage measures.	Provide hourly forecasting of load shapes, evaluate carbon impacts and cost effectiveness for programs. Provides insights about DER valuation and the attribution of GHG reductions.	11/1/2020	12/31/2021	All
Generation and Sequestration	75	Wind Resources in Northern CA, 2 Terrawathours	This study will help SMUD identify sites in Northern California suitable for adding wind generation. The work will be performed by a consultant.	Identifying areas outside of SMUD's service territory suitable for wind resource, will enable SMUD to remain on track to meet the 2030 carbon reduction goals.	4/28/2021	4/28/2022	All
Generation and Sequestration	77	NET Power - Allam Fetvedt Cycle (Super Critical CO2 Cycle) Study	Participation in the EPRI supplemental project which will perform research on the Allam Fetvedt Cycle for supercritical carbon capture. The project will yield a technology assessment, value proposition, and analysis of SMUD-focused applications.	Key information will be provided on the design of Allam-Fetvedt Cycles during this project, along with detailed testing data and performance assessments. The project will look to provide insights and lessons learned on the technology and its operations, giving more evidence of its potential viability for low-carbon power generation.	4/28/2021	12/31/2022	All
Generation and Sequestration	81	Assessments of Alternative Fuels (Generation)	SMUD will hire a consultant to explore the feasibility of using renewable ethanol, biodiesel, renewable diesel, RNG & others as potential fuel-sources for our thermal generation assets.	This assessment will facilitate enterprise decision-making, providing a deep understanding of the resource sustainability, supply chain landscape, price forecasts, market trends, and techno-economic feasibility of each biofuel.	4/28/2021	4/28/2022	All
Generation and Sequestration	91	Hydrogen Blend Collaborative Research	Address the barriers on pipeline materials compatibility and degradation related to the blending of hydrogen into natural gas pipelines, a concept referred to as HyBlend. SMUD will provide data and serve as one of the injection points of H2. The data that will be	The HyBlend project will specify the role Hydrogen can play in the transformation of SMUD's thermal generation. HyBlend is a leading fuel choice that offers benefits for seasonal energy storage, resilience, and GHG emissions reductions.	7/1/2021	7/30/2023	All

			provided will be analyzed to quantify the costs and opportunities of				
Grid Evolution	36	EPRI SHINES	H2 production and integration into the natural gas system. Beneficial integration of solar PV, energy storage, load management, and solar forecasting. EPRI will test the architecture at three sites to compare configurations and size, as well as grid connections, and solar generation variability.	Enhanced grid operations, increased PV deployments, time shifting of solar generation, improved generation/load profiles, reduced grid impacts and interconnection processing time and cost.	11/1/2019	4/29/2022	All
Grid Evolution	45	Transmission Line Monitoring	Test the achievability and usability of Dynamic Line Ratings (DLR) to inform short-term operational and long-term planning decisions, using the LineVision V3 monitoring system.	Increases efficiency of transmission asset utilization while maintaining reliability. Advanced line rating methodologies can result in cost savings and operational benefits.	4/22/2021	12/31/2023	All
Grid Evolution	52	HQ Solar Port Microgrid	Install and commission a small microgrid at the HQ Solar port using second-life batteries, solar and an advance site controller. These activities provide insights regarding DSO operating processes, microgrid maintenance downtimes, data communication, and operations during normal and emergency conditions.	Microgrids can increase reliability by providing backup power to customers during power outages using renewable generation, reduce transmission infrastructure needs, and hedge against volatile energy markets.	1/1/2021	12/1/2022	3
Grid Evolution	61	3M Spartan II	The Spartan units will be used to gain visibility on the downtown network where we currently have none.	Savings on SCADA for the downtown network and reduction in time for restoring service.	11/5/2018	11/5/2021	5
Grid Evolution	80	EPRI 2021 Utility Blockchain Interest Group	Work alongside other utilities to expand knowledge of blockchain technology and its potential applications. Enable collaboration among utilities and act as a bridge to the startup/vendor community, compile and track a comprehensive list of global utility blockchain pilots and extract and document industry trends, lessons learned and key insights.	Through a collaborative approach, expand utility knowledge of blockchain technology and its potential applications in the industry. Enable collaboration opportunities among utilities and act as a bridge to the startup/vendor community.	1/1/2021	12/31/2021	All
Grid Evolution	89	Smart Inverters	This project will test smart inverter connection via two pathways: direct connection and through vendors/aggregators. Direct connection will assist in development of the DERMS, while the vendor/aggregator pathway leverage OEM and aggregator relationships to establish pilot access agreements to a broader range of smart inverters.	Smart inverters are new technology that allows SMUD to monitor residential PV and storage and provides control functionality to assist in grid support.	7/1/2021	3/31/2023	All
Grid Evolution	100	EPRI Transmission & Substations Collaborator Project	Participation in this EPRI collaborative enables SMUD to stay current on industry-wide EPRI R&D, including results of advanced technology testing, software tool development, reference guides and the application of research results.	Apply EPRI tools and research results in Overhead Lines, Underground Lines, Substations, and Asset Analytics. Increased knowledge of failure rates and emerging issues by contributing to and accessing EPRI's T&S Asset Industry-Wide Databases.	1/1/2021	12/31/2021	All

Load Flexibility	49	My Energy Optimizer Partner (Multi-DER VPP)	This project will research the ability of the proposed solution to orchestrate a diversity of qualifying residential customer-sited devices to deliver load flexibility needs throughout the year and to assess whether it makes sense to continue to scale-up.	Upon successful completion of the Multi-DER VPP, SMUD will have a reliable flexible residential load program. This load will be integrated with the DERMS and allow SMUD to operate as required for business needs (EIM/RA/Emergency).	1/5/2021	12/31/2024	All
Load Flexibility	69	EnergyKit HEMS field demo	Ynventive is designing, building, and testing the EnergyKit, as well as demonstrating its effectiveness at a chosen site in Davis, CA. SMUD is providing inputs on typical home energy use patterns and technological considerations pertaining to SMUD's operations.	Successful development may persuade Panasonic and NEDO to match up to \$20M in DOE or CEC grant funding to deploy a field demo to dispatch customer loads using price signals with the confidence and reliability of a VPP product.	4/30/2021	2/28/2022	All
Load Flexibility	99	Oracle Behavioral Demand Response Evaluation	R&D provided a 3rd party evaluation of Oracle Behavioral Demand Response (BDR) to confirm results. This project aims to fulfill the boards desire to have a demand response program for all customers.	Having a demand response program available to all customers, regardless of technology, is an important step towards meeting the 2030 goals.	6/14/2021	2/28/2022	All

Table 3: Enterprise-Wide Initiatives

Initiative Name	Initiative Description	Initiative Benefits	Start Date	End Date	Ward
Innovation Program (IdeaHub)	Innovation at SMUD comprises of exploratory activities related to new strategies. The IDEAHub portal captures technology, business model, and operational efficiency opportunities submitted by employees to support SMUD Innovation.	The Innovation team will propel us towards our 2030 absolute zero carbon goal by balancing diverse emerging technologies and ideas across the organization that drive operational efficiencies and competitive advantage with a centralized team that can champion breakthrough innovations.	2021	Ongoing	All
Name Pronunciation Recording	SMUD'S IT team worked to identify software that can support an employee recording the pronunciation of their name so that colleagues can learn the correct way to pronounce names that nay appear unfamiliar.	This software solutions helps employees learn other employee's names, increasing inclusion and employee morale.	11/10/2021	6/14/2022	All
RealWear Headsets	RealWear Headsets allow staff to call in to site visits and see a live video feed from their computer and communicate in real-time with the person in the field.	Using RealWear camera allows one subject matter expert to attend site visits while other SMEs participate from their home/office. This reduces the number of staff required to travel and attend field meetings in person.	8/27/2021	6/15/2022	All
DERMS	Strategic business partnership with OSI to develop a Distributed Energy Resource Management System whereas SCADA and behind the meter resources can be used to solve distribution constraints, participate in the market, and manage flexibles loads.	Leverage DER capabilities to meet economic objectives, peak load reduction, local constraint issues, deferred infrastructure investment, and grid optimization. As OSI's partner, SMUD shares revenue from future sales.	2018	2028	All
ADMS	Implement a real-time Advanced Distribution Management System (ADMS) Platform (DMS and D-SCADA) to improve management and control of distribution system, enhance distribution operations functions, optimize distribution system and improve forecasting accuracy.	ADMS is the foundation to support providing SMUD's Distribution System Operations a 360 view of distribution and is required to support future DERMS Phases.	02/2018	2022	All



RESOLUTION NO) .			

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

This Board accepts the monitoring report for Strateg	gic Direction SD-10,
Innovation, substantially in the form set forth in Attachment	_ hereto and made a
part hereof.	

SSS No. CGS 22-07	

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Policy – 10/12/22
Board Meeting Date
October 20, 2022

				ТО			ı							ТО							
				10										10							
1.	Bryan Swann								Suresh Kotha												
2.	Claire Rogers								Brandy Bolden												
3.	Scott Martin		8							Farres Everly											
4.	Lora Anguay								Legal	l											
5.	Jennifer David	son	n						CEO	&	Ge	eneral	M	Manager							
Coi	nsent Calendar	x Yes		No If no, so	chedi	ule a dry run presentation.	Bud	dge	eted	х	Υ	'es		No (If no, explain in Cost/Budgeted section.)							
	DM (IPR)					DEPARTMENT	•			•				MAIL STOP	EXT.	DATE SENT					
	chel Huang					Customer & Grid Str	ategy	7						B305	6930	9/19/2022					
NARRATIVE: Requested Action: Accept the monitoring report for Strategic Direction SD-19, Diversified Business.																					
Summary: The purpose is to provide the Board with an update on SD-19, Diversified Business, for 2021. SMUD has three revenue portfolios that are delivering revenues from sources other than traditional electricity sales to customers. They are comprised of a diverse mix of projects that leverage SMUD's brand, intellectual property and assets to create new revenues for SMUD. For 2021, the three portfolios generated \$14.7M in revenues.									tricity sales to												
Board Policy: Strategic Direction SD-19, Diversified Business (Number & Title)																					
Benefits: These portfolios support the goals and objectives of SMUD's Enterprise Strategy of Affordability through: 1) Operational Excellence with respect to better utilization of existing assets, and 2) Partnerships with respect to creating new revenue streams.																					
	Cost/Budgeted:	l: Budgeted																			
	Alternatives: Provide the Board written reports and communications through the CEO/General Manager.																				
Affected Parties: N/A																					
Coordination: Budget Office, Audit & Quality Services																					

Additional Links:			

SUBJECT

SD-19 Diversified Business 2021 Monitoring Report

ITEM NO. (FOR LEGAL USE ONLY)

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

Presenter: Rachel Huang, Director, Customer & Grid Strategy

SMUD-1516 1/16 Forms Management Page 0

SACRAMENTO MUNICIPAL UTILITY DISTRICT

OFFICE MEMORANDUM

TO: Board of Directors DATE: September 28, 2022

FROM: Claire Rogers CR 9/28/22

SUBJECT: Audit Report No. 28007423

Board Monitoring Report; SD-19: Diversified Business

Audit and Quality Services (AQS) received the SD-19 *Diversified Business* 2021 Annual Board Monitoring Report and performed the following:

- A review of the information presented in the report to determine the possible existence of material misstatements;
- Interviews with report contributors and verification of the methodology used to prepare the monitoring report; and
- Validation of the reasonableness of a selection of the report's statements and assertions.

During the review, nothing came to AQS' attention that would suggest the SD Board Monitoring report did not fairly represent the source data available at the time of the review.

CC:

Paul Lau

Board Monitoring Report FY 2021 SD-19, Diversified Business



1) Background

Strategic Direction SD-19 states that:

Broadening and diversifying the products and services that SMUD offers is a key value. The desired results are to: a) generate new revenues that contribute to SMUD's long-term financial health; b) spur the creation of innovative products and services; c) capture the value of SMUD's brand and intellectual property; d) better leverage and optimize SMUD's assets; and e) enable SMUD to continue to attract and retain a talented workforce.

Therefore:

- a) SMUD shall broaden and diversify its lines of business, which may include:
 - i) Being an external service provider;
 - ii) Expanding wholesale energy market opportunities;
 - iii) Capitalizing on intellectual property and assets to develop products and services either solely or through strategic partnerships;
 - iv) Selling products and services aligned with SMUD's purpose and Strategic Directions.
- b) SMUD shall ensure any new lines of business:
 - i) Benefit SMUD's customers and our community;
 - ii) Achieve a balanced, diversified portfolio of rewards and risks;
 - iii) Create economic value without compromising SMUD's financial health;
 - iv) Do not pose unreasonable risk to SMUD's reputation;
 - v) Align with, leverage, and optimize SMUD's strengths, assets and expertise;
 - vi) Position SMUD for the future.

2) Executive Summary

- a) Staff is tracking and reporting on three separate revenue portfolios. These revenue programs are deriving revenues that are not traditional electricity sales to customers. The three portfolios are a diverse mix of projects that leverage SMUD's brand, intellectual property (IP) and assets to create new revenues for SMUD.
- b) SMUD is in compliance with SD-19, Diversified Business.
- c) There are three portfolios that generate revenue for SMUD. Prior to development of SD-19, tracking costs and revenues separately for each revenue program was aligned with operational efforts, and not specifically configured in a manner to

measure net revenue per project. Therefore, only revenues are reported for Legacy Revenue and Innovation Generator Programs. However, for the New Revenue Program portfolio, both costs and revenues are reported.

The founding objective of the Legacy Revenue Programs was to improve customer satisfaction by offering products and services requested by customers. Revenue generation was secondary. A requirement was that such programs must be self-sustaining after 5 years. Because many of the operational costs are shared across many programs, it is difficult to calculate net revenues even though revenues are tracked separately.

For fiscal year 2021, the actual costs and revenues for each portfolio are as follows:

Portfolio	То	tal Expenses	Tota	l Revenues	otal Net evenues
New Revenue Program	\$	(7,441,337)	\$	10,902,597	\$ 3,461,261
Legacy Revenue Programs			\$	3,748,833	
Innovation Generator Program				\$0	
Total				\$14,651,430	

3) Additional Supporting Information

a) Financial Summary

A total of 13 programs/projects are included in the three portfolios. Descriptions of each deal within each portfolio are listed in Appendix A.

For the Legacy Revenue Programs, actual revenues of \$3,748,833 were \$874,874 above planned revenues of \$2,873,959. Within the Legacy Revenue Programs, Cell Site Revenue and Home Power contributed most of the revenue out of the portfolio. The Innovation Generator Program actual revenues were negligible; again, there is no plan tracked for this program.

There have been no new deals added to the New Revenue Program in 2021. The New Revenue Program generated \$10,902,597 in revenue which was \$837,972 above the planned revenue of \$10,064,625. The actual expenses of \$7,441,337 were \$1,090,722 lower than the planned expenses of \$8,532,059. This resulted in positive net revenue of \$3,461,261 compared to a planned positive net revenue of \$1,532,566 – a variance of \$1,928,694. The biggest driver of this improvement over plan is due to the Community Energy Services

Program performing 80% better on a net basis than planned. The program performed better on both on reducing costs more than planned while increasing revenue more than planned.

The New Business Development Program is centrally responsible for developing, assessing, negotiating, overseeing implementation and tracking performance of existing and new business opportunities for all of SMUD. However, for all of 2021, this team was dedicated full time to launching the California Mobility Center. This team did not actively track the current portfolios or pursue any new opportunities for SMUD.

b) Risk Summary

Risk is reported here only for the New Revenue Program and the methodology is derived from SMUD's Enterprise Risk business practices. Risk is generally defined as the ability to successfully recoup SMUD's investment over a reasonable timeframe, without damaging SMUD's reputation, causing financial hardship, or resulting in regulatory or policy violations.

Risk is evaluated on five impact areas - Financial; Legal, Regulatory and Legislative; Operational; Strategic; and Reputational. See Appendix B for definitions.

The overall risk ratings of the New Revenue Program portfolio were not modified from the 2020 assessment as no new opportunities were added. The previous overall portfolio risk was rated low. For 2021, the portfolio risk was not reevaluated or changed as it is still deemed low.

c) Compliance with Desired SD-19 Outcomes

Two of the three portfolios are meeting the desired results stated in the policy as follows:

New Revenue – The New Revenue Program is generating positive net revenue for the second year in a row.

Spurs Innovative Product and Services – The New Revenue Program is delivering innovative products and services to existing SMUD customers and new customers.

Capture Value From Brand and IP – Intrinsically, brand and IP value are considered and included in the associated revenue models for many of the projects included in the portfolios.

Asset Leverage and Optimization –Transmission Sales is a prime example of how SMUD is extracting additional value from an existing asset by selling surplus transmission capacity more competitively. For 2021, SMUD generated over 60% more revenue in excess transmission sales than was planned.

4) Challenges

Regimented cost and revenue tracking will be paramount to assessment of performance under SD-19. Staff is working diligently to maximize the revenue generation that is possible from all three portfolios.

As SMUD embarks on attaining new goals relative to zero carbon emissions, a robust innovation pipeline, greater reliance on strategic partnerships and business diversification will all play vital roles. New revenue generation opportunities aligned to SMUD's 2030 zero carbon goals will be a priority. As an example, the California Mobility Center will continue to play a critical role in helping to identify new zero emission mobility solutions aligned to SMUD's goals. Additionally, SMUD's participation in the Global Mobility Strategic Fund – a venture fund established to support early-stage mobility companies – will create new opportunities for revenue generation from this sector.

As part of this evolution as it relates to new revenue opportunities, SMUD needs to learn how to be comfortable with trying new business models for revenue generation, fail quickly and move on to other ideas. The innovation process must be quicker.

5) Recommendation

It is recommended that the Board accept the Fiscal Year 2021 Monitoring Report for SD-19, Diversified Business.

Appendix A PORTFOLIO PROJECT LIST AND DESCRIPTIONS

New Revenue Program:

- 1. **Community Choice Aggregator Services:** SMUD provides back office support services such as data management, call center, whole energy, marketing, communications and customer care for Community Choice Aggregators.
- 2. **NEC/STI:** Partnership with NEC Corporation (NEC) to collaborate on energy solutions for Japanese electric power providers and others in the Asia Pacific region.
- 3. **Sacramento Power Academy (SPA):** Program to train future utility workers in hundreds of utilities throughout the Western United States.
- 4. Smart Grid Billing: Smart Grid Billing enables real-time device monitoring and control to lower energy consumption and provide predictive maintenance for equipment. Our current pilot is with Embassy Suite and Hyatt Regency in Sacramento. This pilot offers an installation of a storage battery in the Hyatt in midtown that will be connected with the energy management system (EMS).
- 5. **OSI/DERMS Co-Development:** Open System International, Inc. (OSI) and SMUD strategic technology partnership to implement and deploy an industry-leading Distributed Energy Resource Management System (DERMS). SMUD will receive royalties from future sales of the enhanced product suite for DERMs.
- 6. **GridX:** Program will generate pro forma bills for all SMUD residential customers under various tariffs as part of RTOU planning efforts.

Legacy Revenue Programs:

- 1. **Cell Site Construction:** Revenues derived from SMUD review of cell site modifications or new construction.
- 2. **Energy Profiler:** Energy Profiler Online (EPO) lets customers to see their load profiles, energy consumption by time period, and other information on their facilities from any computer with Internet access.
- Home Power: Program that covers customer's homes against unforeseen electrical repairs to outlets, switches, circuit breakers, fuses and accessible internal wiring. All repairs are performed by a SMUD approved electrical contractor.
- 4. **Moving Connections:** Program designed to enhance a customer's overall move experience. Residential customers can sign up for phone, internet, and other services, after transferring or starting electric service with a SMUD Customer Service Representative (CSR).
- 5. **Power Protection:** Residential program that prevents harmful voltage surges from entering a home via a whole house surge suppressor attached to the meter.

Appendix A

The program includes a manufacturer's warranty covering surge damage to appliances and electronic equipment.

Innovation Generator Projects

- 1. **DER Planning Software:** DER Planning Tool software will forecast adoption scenarios (rate of adoption and geographic location) of DERs like electric vehicles, solar PV, storage, etc.
- 2. **Intelligent Energy Solutions:** Software that minimizes certain electrical end uses in the customer's home (e.g. pool pumps).

Appendix B

RISK

Risk is tracked only for the New Revenue Program using best practices derived from SMUD's Enterprise Risk business practices. Risk is generally defined as the ability to successfully recoup SMUD's investment over a reasonable timeframe, without damaging SMUD's reputation, causing financial hardship, or resulting in regulatory or policy violations.

A **risk** is the possibility that an event will occur and adversely affect the achievement of objectives. To help understand the nature of risk and to determine the level of risk, the risk assessment process is used. Risk Assessment requires calculations of three components of risk: impact, likelihood and velocity.

Impact is the magnitude of the potential risk based on six impact areas defined below. **Likelihood** is the chance that the event (risk) will occur and velocity is the speed at which the risk will occur, if it occurs. For the purposes of this rubric, the **risk score** is calculated as follow: **Impact x** [(likelihood+velocity)/2]

The following five impact areas are considered for the New Revenue Program Portfolio.

Financial – This category focuses on how much SMUD's financial commitment is including both cash and non-cash resources. Labor is considered here as well.

Legal, Regulatory and Legislative – This category considers whether the project has the potential to violate the law, cause significant fines, or a loss of confidential data. It considers whether the project exposes SMUD to higher levels of risks or new risks from a legal, regulatory or legislative perspective.

Operational – This category considers whether the project aligns with, leverages and/or optimizes SMUD's strengths, assets and expertise. It also considers whether the project poses unreasonable risks to existing projects or operations.

Strategic – This category considers whether the project or the failure of the project will impact SMUD's ability to achieve its strategy. It also considers whether the project poses unreasonable risk to SMUD's goals and objectives.

Reputational – This category considers how the project could impact the perception of SMUD by its customers and the community. It considers whether the project poses unreasonable risk to SMUD's reputation.

The following tables define the rubric for ratings of risk impacts.

Appendix B

Appendix B

	Impact Areas										
Score	Name	Financial	Legal, Regulatory & Compliance	Operational	Strategic	Reputational (Customer, Community, and Board Relations)					
1	Insignificant	<\$2M, no FTE	No legal/compliance violations. No confidential data involved.	Direct alignment with SMUD's strengths, assets, and expertise. No impact to existing projects or operations.	No impact to achievement of goals and objectives.	No impact to metrics and surveys. No public criticism on media platform. No impact to SMUD's reputation.					
2	Minor	\$2M<\$5M, 1 FTE	Minor legal/compliance violations. (regulatory fines >\$5K and torts)	Project may be a minor deviation from SMUD's strengths, assets, and expertise. Minor delays or modifications to a few existing projects or operations.	Minor delays or modifications to goals and objectives.	Slight change in customer metrics and surveys. Limited public criticism from a few media platforms.					
3	Moderate	\$5M<\$10M, 2 FTEs	Moderate violations lead to increased scrutiny and some fines. (regulatory fines >\$100K) Introduces new risks to SMUD that can be mitigated with effort, confidential data involved.	The project may align with, leverage and optimize only a portion of SMUD's strengths, assets and expertise. Moderate delays or modifications to project portfolio or operations.	Moderate delays or modifications to goals and objectives.	Modest decline in customer metrics and surveys. SMUD is subject to criticism from several opinion leaders/customers, media sources and the Board.					
4	Major	\$10<\$20M, 3- 4 FTEs or team to support	Significant violations of law or potential loss of confidential data. Significant fines (regulatory fines >\$250K) Introduces new risks to SMUD that are difficult or costly to mitigate.	The project may be a major deviation from SMUD's strengths, assets, and expertise. Significant delays or modifications to existing project portfolio or operations.	Significant delays or reductions in scope of goals and objectives.	Significant deterioration in customer metrics and surveys. Negative media reaches headlines of several publications. Significant erosion of trust from the Board.					
5	Critical	>\$20M, >4 FTEs or an entire team or department to support	Violations result in widespread data loss, loss of qualifications for licenses. (regulatory fines >\$1M) Introduces new risks to SMUD that are too difficult or costly to mitigate.	New line of business with significant disruptions to SMUD's strengths, assets and expertise. Cancellation of multiple projects and significant impacts of operations.	Failure to meet SMUD's goals and objectives.	Major deterioration in customer metrics and surveys. Irreparable negative media coverage and damage to SMUD's reputation and credibility with the media and the Board.					



RESOL	.UTION	NO.				

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

This Board accepts the monitoring report for Strategic Direction	SD-19,
Diversified Business, substantially in the form set forth in Attachment h	nereto
and made a part hereof.	

SSS No.	
SC 22-001	

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date	
Finance & Audit – 10/18/22	
Board Meeting Date	
October 20, 2022	

ТО										ТО					
1. Markisha Webster					6.	Lora .	Ang	guay							
2.	Claire Rogers							7.	Scott	Ma	rtin				
3.	Jennifer David	dso	n					8.							
4.	Brandy Bolde	n						9.	Legal						
5.	Farres Everly							10.	CEO	&	Gener	al I	Manager		
Cor	nsent Calendar	х	Yes		No If no,	sched	ule a dry run presentation.	Bud	geted	х	Yes		No (If no, exp section.)	olain in Cos	t/Budgeted
FRC	OM (IPR)						DEPARTMENT						MAIL STOP	EXT.	DATE SENT
Jos	e Bodipo-Meml	oa					Sustainable Commun	ities A354 6493 9/23/2022							
NA	RRATIVE:														
Re	quested Action	:	Accep	ot the	e monito	ring	report for Strategic Di	rectio	on SD-1	13,	Econo	mi	c Developme	ent Policy	у.
	Summary	:					Development Report su d of January 1 – Decer				nplish	mer	ıts and status	s of SD-1	3 performance
	Board Policy: Strategic Direction SD-13, Economic Development Policy states: "Promoting the economic vitality of our region and the growth of our customer base is a key value of SMUD. Therefore, SMUD shall exercise strategic leadership and actively participate in regional economic development."														
	Benefits	:	Direct	tors a	and Exe	cutiv	n SMUD's overall come Team so they can ever recommendations or p	aluate	compli	and	e with	sp	ecific Board		

Cost/Budgeted: N/A

Alternatives: Provide the Board with written reports and communication through the CEO & General Manager.

Affected Parties: Board of Directors, Executive Team & staff.

Coordination: Economic Development develops the report with information from SEED, Sustainable Communities, New

Business Development, Commercial Development, Pricing and Commercial Delivery.

Presenter: Jose Bodipo-Memba, Director, Sustainable Communities

Additional Links:		

SUBJECT
Annual Monitoring Report for SD-13, Economic Development Policy

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

SMUD-1516 1/16 Forms Management Page 0

SACRAMENTO MUNICIPAL UTILITY DISTRICT

OFFICE MEMORANDUM

TO: Board of Directors **DATE:** October 5, 2022

FROM: Claire Rogers @2 10/05/22

SUBJECT: Audit Report No. 28007427

Board Monitoring Report; SD-13: Economic Development

Policy

Audit and Quality Services (AQS) received the SD-13 *Economic Development Policy* 2021 Annual Board Monitoring Report and performed the following:

- A review of the information presented in the report to determine the possible existence of material misstatements;
- Interviews with report contributors and verification of the methodology used to prepare the monitoring report; and
- Validation of the reasonableness of a selection of the report's statements and assertions.

During the review, nothing came to AQS' attention that would suggest the SD Board Monitoring report did not fairly represent the source data available at the time of the review.

CC:

Paul Lau

Board Monitoring Report 2021 SD-13, Economic Development



1. Purpose & Background

Strategic Direction 13 (SD-13) Economic Development states that:

"Promoting the economic vitality of our region and the growth of our customer base is a key value of SMUD. Therefore, SMUD shall exercise strategic leadership and actively participate in regional economic development.

Specifically:

- a) SMUD shall promote innovation while maintaining rate affordability and balancing the other strategic directions.
- b) SMUD shall align its economic development activities with regional economic development initiatives.
- c) SMUD shall assist in retaining, recruiting and growing commercial and industrial ratepaying customers.
- d) SMUD shall offer economic development rates and program incentives.
- e) SMUD shall offer a contracting program for certified small businesses who are ratepaying customers.

2. Executive summary

SMUD is in compliance with SD-13, Economic Development.

SMUD continues to be a nationally recognized leader in corporate citizenship for our long-standing commitment to the economic health of the greater Sacramento region. In 2021, we continued our support for and engagement with the struggling business community to help meet their needs during the COVID-19 pandemic by pivoting and adapting our support to meet their evolving needs. We leveraged key partnerships to support a shared vision of economic recovery, while delivering greater collective impact and advance an inclusive and equitable economy. Additionally, we aligned our economic development efforts with SMUD's vision to be a trusted and impactful partner in achieving an inclusive, zero carbon economy. We leveraged our relationships to accelerate innovation, ensure energy affordability and reliability, protect the environment, eliminate greenhouse gas emissions, catalyze economic and workforce development, promote environmental justice, and enhance community vitality for all.

Our strategy to enhance the economic vitality of the Sacramento region is comprehensive. Key tactics to engage, inform and support the regional business community include:

- Advancing SMUD's 2030 Zero Carbon Goal in inclusive, regional economic development efforts
- Broadening support of the region's emerging innovation ecosystem, including the California Mobility Center
- Supporting business formation, attraction, retention, and expansion efforts
- Providing business development resources for entrepreneurs
- Improving the Supplier Education and Economic Development (SEED) contracting program for local small businesses
- Continuing to offer and enhance economic development rates

- Providing energy efficiency programs and electrification incentives and rebates
- Expanding local agency and nonprofit partnerships to support community development
- Deploying significant resources to support a Sustainable Communities plan that can be replicated and measured for effectiveness and impact
- Ensuring our commercial and industrial service connection costs are in-line with other West Coast electric utilities
- Supporting the developer community

Through outreach and education, SMUD's Supplier Education and Economic Development (SEED) team teaches local small businesses how to contract with SMUD and positively impact their bottom line. SEED offers incentives to local small businesses that participate in SMUD's competitive bid process. It also helps prime contractors find local sub-contractors, which helps them gain a competitive edge when developing their bids or proposals. In 2021, the SEED program partnered with Supply Chain Services, conducting a variety of outreach and education events and awarding 23% of SMUD's contracts to SEED-certified small businesses, exceeding the Board-established goal of 20%. Over 115 SEED contracts were awarded in 2021, totaling \$48 million dollars.

SMUD works with over 50 local economic development organizations to enhance regional economic vitality. Our leadership roles in the Greater Sacramento Economic Council (GSEC), Valley Vision, Sacramento Metro Chamber, Urban Land Institute, Downtown Sacramento Partnership, Sacramento Black Chamber, Sacramento Hispanic Chamber, Sacramento Asian Pacific Chamber, SACOG, SacPAC and many others help ensure our activities support the region's efforts to attract, retain and expand companies in our service area. It also means SMUD has a seat at the table early on in economic development conversations. Other major tactics to encourage regional economic development include our dedicated Commercial Development and Commercial Delivery teams.

Business attraction was a key economic development focus in 2021. We participated in 57 business attraction, retention and expansion projects, supporting the attraction or expansion of seven companies and the creation of an estimated 442 jobs within our service area in multiple sectors including mobility, manufacturing, technology expansion and finance and banking.

- 3. Information about our 2020 efforts to achieve the specific elements outlined in SD-13 is provided in the following section.
 - a) SMUD shall promote innovation while maintaining rate affordability and balancing the other strategic directions.

As SMUD adopted our bold 2030 Clean Energy Vision to reach zero carbon, we heightened our focus on opportunities to promote awareness, innovation, and job creation with local startups in electrification, transportation, and clean technology. We continued to collaborate and amplify the California Mobility Center (CMC), engage the clean tech community through CleanStart, and inspire the future workforce through partners like HackerLab and StartupSac. All of these efforts are increasing investments to develop new solutions for clean energy, workforce development, and a thriving inclusive economy.

The New Business Development (NBD) Team planned, incorporated and launched a new nonprofit corporation, the CMC in 2020. The CMC applied for and received IRS tax exempt 501(c)(3) status in 2020. After securing a lease for its initial 25,000 square foot manufacturing and prototyping facility at Depot Park, CMC procured its initial baseline

equipment and was commissioned in Q1 2021. The facility, called Ramp-Up-Factory (RUF) is operational with training suite installed. 15 service provider contracts were executed with additional consultants and strategic partners that continue to support the CMC and CMC clients.

In 2021, CMC expanded the Board from a Founders group of five to a broad-based Board of 16, with strong automotive sector representation. CMC developed its online, recruitment management tool to expand its membership campaign. By year-end, CMC reached a total of 39 members, with 98 representatives registered in the online portal. Additionally, CMC launched various membership committees, launched the Industry Advisory Council and monthly CMC Thought Leadership webinar series.

CMC designed and developed materials for the organization's marketing and public relations initiatives. CMC continually updated its rebranded website (www.californiamobilitycenter.org), and wrote/distributed eight press releases in 2021 reaching over 15,000 media industry views. CMC appeared in over 213 industry and news articles and sponsored twelve industry events held in the US and internationally.

Lastly, the CMC workforce program has provided training in partnership with community-based organizations, adult learning centers and CSU Sacramento. The Workforce Pathways Partnerships Program started in 2020 with a \$1.4 million CARES Act grant from the City of Sacramento. In 2021, CMC received a \$600,000 grant from California Workforce Development Board to advance jobs and training associated with the climate and technology impacted industries. CMC was able to assist 115 people in securing internships or employment through the Workforce Pathways Partnerships Program.

SMUD continues to effectively balance our goal of fostering innovation with our commitment to keeping rates low. SMUD's average rates will remain competitive even after the adopted rate increases for 2022 and 2023. In 2021, SMUD's system average rate was 37.0% below PG&E. PG&E's 2020 General Rate Case Phase I that was approved by the CPUC included revenue requirement increases for calendar year 2020 through 2022. A detailed summary of SMUD's rate competitiveness is provided in Appendix A.

b) SMUD shall align its economic development activities with regional economic development initiatives

Supporting the local economy through the ongoing COVID-19 pandemic was a regional priority in 2021. SMUD engaged at the highest levels in regional economic recovery initiatives and took direct action to reach our commercial customers. SMUD partnered with the Sacramento Metro Chamber to underwrite its COVID-19 Business and Economic Task Force briefings, convening more than 50 local representatives across all levels of government, industry and community leadership. SMUD leveraged the opportunity to share information about our programs and services to support impacted businesses and gather information to share directly with our customers. Through our active engagement in the State Sprint effort, we were able to position the CMC as a key priority for investment and showcase SMUD's Sustainable Communities Resource Priorities Map. This effort was organized by the Sacramento Asian Pacific Chamber in partnership with GSEC, SACOG, Valley Vision, the Sacramento Metro Chamber and City of Sacramento. SMUD participated in the Sacramento Metro Chamber's virtual Cap-to-Cap program to advocate for federal resources to aid the business community's recovery. SMUD stepped up as a lead supporter of the Minority Business Assistance and Recovery Kickstart (MBARK) program, a comprehensive, multi-pronged approach geared to assist minority small business owners in the community. MBARK utilizes understanding and expertise on what minority small

business owners may need and showcases how to proactively engage them in order to stabilize and grow their businesses. SMUD also joined forces with Sacramento State, Los Rios Community College District, UC Davis, UC Davis Health System and Aggie Square to form an Anchor Institution Coalition to explore workforce and economic development pathways to support the greater Sacramento Region. The economic, intellectual, and human capital places an anchor institution in a unique position to improve and enrich the surrounding community in partnership with other key place-based stakeholders from sectors such as government, business, and faith, as well as community-based organizations and local residents. We provided resources to implement the Capital Region Prosperity Strategy and served on the Steering Committee for the Internal Study Mission. Also, we remained in constant contact with all our business community partners to lend support.

In 2021 SMUD's Small and Midsize Team of Strategic Account Advisors continued to offer assistance to customers, directing them to appropriate SMUD programs and providing financial relief related information. The "Here to Help" campaign continued into 2021; this overarching awareness campaign focused on delivering information and resources to our business customers. SMUD continued to maximize the use of targeted digital tools supporting small and midsize business customers. As the COVID-19 global pandemic persisted, small and midsized businesses continued to struggle through financial challenges, supply chain issues and employee retention dilemmas. For a detailed description of the efforts of SMUD's Small & Midsize Business Team of Strategic Account Advisors, and of SMUD's "Here to Help" campaign, see Appendix B.

SMUD plays a critical role in GSEC. In addition to Paul's participation on the GSEC Board, the business attraction team serves on the Economic Development Directors' Task Force. Given the focus on climate change and carbon neutrality, SMUD has played an increasingly important role in business attraction, retention, and expansion.

During the past year, SMUD provided support in the attraction of seven new companies that will create 442 jobs in SMUD's service territory. Detailed information about SMUD's role in key regional economic development organizations is provided in Appendix C.

To promote workforce and equitable economic and community development, SMUD continues targeting economic development, community/environmental health, and neighborhood outreach activities in vulnerable and under-resourced communities through its Sustainable Communities program. SMUD has invested over \$11.46 million into this effort, leveraging partnerships to increase impact in these areas of need. Additional information regarding Sustainable Communities can be found in Appendix B.

c) SMUD shall assist in retaining, recruiting and growing commercial and industrial rate-paying customers

The Commercial Development team actively engaged 225 commercial, industrial, mixed-use and residential project developers throughout our service territory. We partner with community organizations and municipalities to attract, retain, and grow existing companies.

To support the creation and growth of small businesses, SMUD supported the Capital Region Small Business Development Center (SBDC), which helped 24 businesses start up, retained 8,056 jobs, created 575 new jobs and helped businesses access \$38.7 million in capital during 2021.

d) SMUD shall offer economic development rates and program incentives

In 2020, SMUD offered an Economic Development Rate (EDR) to incentivize the attraction, retention, and expansion of businesses within our service area. A description of the current EDR can be found in Appendix D.

SMUD conducted strategic outreach and engagement to developers and builders of residential subdivisions and multifamily developments about its Smart Homes program offerings and incentives for All-Electric Smart Homes, SolarShares, and battery storage.

e) SMUD shall offer a contracting program for certified small businesses who are rate-paying customers

Our SEED program offered certified small businesses incentives to participate in SMUD's competitive bid process. It also helped prime contractors find local subcontractors to gain an advantage in developing their bids or proposals. To this end, the team provided 131 lists of SEED qualified vendors in specific categories to contractors interested in leveraging the SEED program in their bid responses.

The SEED team held 27 workshops, orientations or panel discussions and coordinated participation in over 100 outreach events, reaching approximately 3,000 individuals. In addition, the team hosted the first Spanish--language "How to do Business with SMUD" workshop for the Sacramento Hispanic Chamber's Emprende cohort.

SMUD's annual goal is to award no less than 20% of all contracts to certified small businesses. We exceeded that goal in 2021, awarding 23% of contracts to SEED qualified vendors, totaling \$48 million.

The SEED team also coordinated the Business Advisory Council (BAC). The BAC raises local business awareness about contracting with SMUD and makes recommendations for improvements to our contracting process. SMUD hosts quarterly meetings for over 40 member agencies, including regional Chambers of Commerce and Property and Business Improvement Districts.

For more information about our 2021 efforts to promote our SEED program, and the achievement of our SEED goals, please see Appendix E.

4. Challenges: California's regulatory climate, the costs of doing business, new code and regulatory standards present steep challenges to development. Permitting costs and delays pose barriers to market, leading companies to relocate to other states. Limited availability of a trained workforce present challenges. SMUD continues to work with regional and state partners, such as GSEC, GO-Biz and the California Association of Local Economic Development, to address the state and local regulatory challenges that limit our ability to attract or develop new businesses.

Supply chain disruptions and inflation resulting from the COVID-19 pandemic also continue to pose significant economic challenges for the Sacramento region and the full effect is yet to be realized. The percentage of employees that will remain working from home will impact the demand for office space and traditional business attraction efforts. We may also need to reevaluate the way we support the existing business community as it recovers from the pandemic.

5. Recommendation: It is recommended that the Board accept the Monitoring Report for SD-13, Economic Development.

APPENDIX A

SMUD shall promote innovation while maintaining rate affordability and balancing the other strategic directions.

SMUD's approach to innovation includes investments in regional accelerators, incubators, and curriculum delivery that complements business development efforts.

For corporations and startups alike, achieving success and growth depends on a support network and ecosystem in which to collaborate. SMUD's approach is to continue to identify the problem solvers within our community, and strategically invest in their programs that will grow our region's knowledge economy. Key 2021 developments in the mutually beneficial relationships Economic Development and Partnerships supports in the innovative entrepreneurship ecosystem include:

CleanStart Inc. focuses on developing clean tech companies in the Sacramento region through education, capital, and connections. Having successfully pivoted much of their programming to virtual the year prior, CleanStart continued to offer monthly meetups as well as a Perspectives webinar series, hosting 35 real-time events reaching over 1,000 attendees on topics such as decarbonization, energy storage, recycling, clean tech investment, and mobility. Additionally, CleanStart leveraged their events to create a recorded video library of resources, reaching over 4,500 views to date, and mentoring six companies for 2021 CalSEED awards.

Hacker Lab is an all-in-one makerspace, coworking facility and workforce incubator as one of the most recognized centers for innovation in the region. SMUD continues to invest in their programs end-to-end, including their maker education programs, entrepreneurship business accelerator, and their career pathway development program, to support the dreams of underserved Sacramentans. In partnership with SMUD, Hacker Lab's team and workforce equity programs boosted Sacramento-area entrepreneurs and small businesses during the pandemic, helped generate dozens of new jobs and businesses, and supported skill-building and economic development in Sacramento's manufacturing and creative economy.

In 2021, Sacramento-area workforce trainees and entrepreneurs checked in 10,057 times to use Hacker Lab space, tools & equipment as a critical resource amid COVID-19 challenges. This included 989 classes, events & meetups where attendees gained workforce-focused skills in fields such as advanced manufacturing, CNC design, woodshop, welding, 3D printing, and more. The Hacker Lab Pathways scholarship provided curriculum to 473 attendees, 55 percent of which explored a new field and 22.5 percent of which started new businesses. The MAKEHERS women business accelerator graduated 30 Sacramento-based women and non-binary business owners across two cohorts with targeted programming for participants from low-income backgrounds and funded \$30,000 in seed investments. Finally, the Maker-to-Market program served entrepreneur training to 555 attendants and helped over 36 small businesses launch, creating economic resiliency amidst COVID-19.

InnoGrove continued to offer virtual networking and educational workshops focused on startup and small business development, hosting 10 events and reaching 240 attendees. This included Women-in-Tech Workshops to support the growth of women in technology careers and businesses as well as Startup Founder Workshops. InnoGrove also laid the foundation for the InnoGrove Startup Resource Directory (IRSD), which will be comprised of professionals in a range of industries who have agreed to assist small and startup companies affiliated with InnoGrove with their business-related questions.

StartupSac accelerates Sacramento's startup and innovation ecosystem through educating, empowering and connecting startups to founders and innovators, and continued to connect and engage in 2021 despite the continued impacts of the pandemic. This included two Mentor

Sacramento Office Hours Sprints, a program offered in collaboration with the Carlsen Center which matched over 75 early-stage entrepreneurs with expert mentors, investors, advisors, subject matter experts, and experienced entrepreneurs in three,15-minute sprint sessions each. StartupSac also launched Scale-Up! Workshops, educating 25 entrepreneurs about essential deal terms of equity investments, as well as an Angel Investing series to show how activating more angel investors in our region can benefit local startups and the Greater Sacramento economy. Startup Sac held a total of 24 events, supporting 789 businesses, including nine StartupSac Happy Hour Events featuring 17 veteran founders and 317attendees, and holding 10 Startup Sac Office Hours with a total of 281 attendees.

SMUD sponsored the Entrepreneurs Showcase's **Impact'21 Global Venture Summit**, a daylong exhibition focused on innovation and investment in leading technologies, including artificial intelligence, cyber security, autonomous vehicles and more. More than 20 exhibitors provided previews and demonstrations of innovative solutions. As part of the Summit program, SMUD's Chief Zero Carbon Officer, Lora Anguay, spoke on a zero-carbon themed panel.

SMUD initiated a new partnership with **Growth Factory**, a nonprofit pre-seed accelerator and accompanying venture fund on a mission to scale truly great companies in the Greater Sacramento region. Growth Factory will foster 25 startup companies per year, providing mentorship and guidance to each along the pathway from founder to CEO. SMUD will supply thought leadership throughout the programming, particularly in areas of clean tech and operational excellence.

SMUD also sponsored FourthWave, a local accelerator program for women-led technology, which works in collaboration with the CSUS Carlsen Center for Innovation & Entrepreneurship.

Commitment to Low Rates: SMUD continues to maintain rates that are below PG&E's, both at a system level and by rate class.

Figure 1: Compares SMUD and PG&E system average rates for the past two years. On a system average basis, SMUD's system average rates have averaged 31.3% below PG&E's since 2012.

			Average An	nual Rate	Difference	Difference	
Custom	er		Rate Categories	PG&E	SMUD	Below PG&E*	Below PG&E*
Class	Description	PG&E	SMUD	2021	2021	2021	2020
Residential	Standard	E-1	R-TOD	\$0.2859	\$0.1700	-40.5%	-37.5%
Nesidential	Low Income	CARE***	EAPR & EAPRMED**	\$0.1792	\$0.1183	-34.0%	-28.8%
All Residential				\$0.2483	\$0.1605	-35.4%	-31.0%
Small Commercial****	<= 20 kW	B-1	GFN/GSN_T	\$0.2804	\$0.1659	-40.8%	-41.8%
Small Commercial	21 - 299 kW	B-6	GSS_T	\$0.2614	\$0.1534	-41.3%	-43.3%
Medium	300 - 499 kW	B-10	TOU-3	\$0.2439	\$0.1421	-41.7%	-43.6%
Commercial****	500 - 999 kW	B-19	TOU-2	\$0.2102	\$0.1328	-36.8%	-39.4%
Large Commercial****	=> 1 MW	B-20	TOU-1	\$0.1602	\$0.1097	-31.5%	-35.8%
Lighting	Traffic Signals	TC-1	TS	\$0.2643	\$0.1312	-50.4%	-51.9%
Lighting	Street Lighting	various	SLS,NLGT	\$0.3031	\$0.1590	-47.5%	-51.2%
Agriculture	Ag & Pumping	AG	ASN/D,AON/D	\$0.2521	\$0.1463	-41.9%	-44.8%
System Average				\$0.2336	\$0.1472	-37.0%	-35.7%

Notes:

^{*} Projected 2021 average prices for SMUD with rates effective 01-01-21 and 10-01-21. PG&E average prices in 2021 reflect rates effective 12/01/21, per Advice Letter 6415-E. The rate difference in year 2020 reflects PG&E average rates as of 10/1/20, per Advice Letter 5958-E dated 9/21/20, and SMUD rates effective 01-01-20 and 10-01-20.

^{**} CARE vs EAPR includes EAPR & EAPRMED customers.

^{***} There is no indication from PG&E that their CARE rates include customers who have a medical allowance only.

^{****} Commercial rates include WAPA credits.

Figure 1 shows that rate competitiveness varies by customer class and is at least 31.5% below comparable PG&E class average rates. Since the creation of the annual rate monitoring report in 2007, SMUD has consistently maintained rates that were more than 18% below PG&E.

APPENDIX B

SMUD shall align its economic development activities with regional economic development initiatives.

Leadership Roles: Throughout 2021, SMUD staff held visible leadership roles in regional economic development initiatives and organizations, helping ensure regional stakeholders are working in concert on business development, attraction, retention and expansion efforts and that our efforts are aligned with regional priorities. SMUD's leadership roles in regional economic development organizations included:

- Business Council for Sustainable Energy, Board of Directors
- Business Environmental Resource Center, Advisory Committee
- Carmichael Chamber of Commerce, Board President
- California Electric Transportation Coalition, Board of Directors
- California Mobility Center, Board of Directors
- California Workforce Development Board, Board of Directors
- Capital Region Small Business Development Center, Advisory Board
- Cleaner Air Partnership, Executive Committee
- Downtown Sacramento Partnership, Board of Directors
- Electric Transportation Community Development Corporation, Board of Directors
- Folsom Tourism and Economic Development Corporation, Board of Directors
- Greater Sacramento Economic Council, Board of Directors
- Greater Sacramento Economic Council, Economic Development Directors Taskforce
- Greater Sacramento Urban League, Board of Directors
- Hacker Lab, Board of Directors
- Internal Study Mission, Steering Committee
- Metro EDGE, Leadership Council
- Midtown Business Association, Board of Directors
- National Association of Workforce Boards, Board of Directors
- National Association of Women Business Owners, Board of Directors
- North State Building Industry Association, Board of Directors
- North Sacramento Chamber of Commerce, Board of Directors
- Power Inn Alliance. Board President
- Project Attain, Board of Directors
- R Street Sacramento Partnership, Board of Directors
- Sacramento Asian Pacific Chamber of Commerce, Board of Directors
- Sacramento Black Chamber of Commerce, Board of Directors
- Sacramento Employment and Training Agency (SETA)/Sac Works, Board of Directors
- Sacramento Employment and Training Agency, Board of Directors
- Sacramento Hispanic Chamber of Commerce, Board of Directors
- Sacramento Metro Chamber of Commerce, Executive Committee
- Sacramento Metro Chamber, Economic Development Policy Committee Co-Chair
- State Sprint, Steering Committee
- The River District, Board of Directors

- Urban Land Institute, Board President
- Valley Vision, Executive Committee

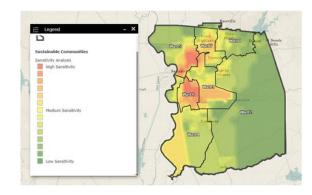
Sustainable Communities Program: Our Sustainable Communities program helps bring environmental equity and economic vitality to all communities in our service area, with special attention given to historically under-resourced neighborhoods. We believe in the ability to make a greater collective community impact through partnerships, and collaborate with private industry, government agencies and nonprofits to invest in and implement programs that provide equitable access to indicators of sustainable community success, with a focus on social wellbeing, healthy environment, prosperous economy, and mobility.

An important corollary to Sustainable Communities is our Board-adopted Climate Emergency Resolution requiring SMUD to work toward our most ambitious goal — 2030 Zero Carbon. Under-resourced communities lack equitable access to many essential community components that we attribute with a high quality of life, including living wages and training opportunities, affordable housing, access to transportation and connectivity, health care access, nutrition, education opportunities, computer and internet access and a healthy environment. Our neighbors in these communities feel the physical impacts of climate change more acutely than wealthier communities while bearing little responsibility for the crisis, and history has shown that these communities often suffer unintended consequences when new social policies or strategies are introduced.

Involvement of all our communities is foundational to our 2030 Zero Carbon plan. SMUD recognizes the importance of partnering with all the communities we serve. We commit to reaching impacted communities as we work toward our goal of zero carbon.

Our Sustainable Communities program strategically establishes long-term partnerships with community-based organizations and businesses, working together on projects to help our under-resourced communities, increase inclusion and close the disparity gap in the region. These partnerships create trusted relationships and serve as a foundation for the community outreach, engagement, collaboration, and education needed to build livable, diverse, and resilient communities. We partner with policy makers, transit, technology companies, health care providers and community-based organizations, leverage our investments, and create collective impact to enhance workforce training, transportation access, clean energy, job creation and inclusive economic development in under-resourced neighborhoods.

SMUD's Sustainable Communities Priority
Map: Our Sustainable Communities Resource
Priorities Map helps analyze current data to
indicate the local areas most likely to be
underserved or in distress by lack of community
development, income, housing, employment
opportunities, transportation, medical treatment,
nutrition, education, and clean environment. The
data sets highlighted in the Resource Priorities
Map include key indicators that would best aid in
identifying and targeting communities with a



greater sensitivity to social, economic, and environmental vulnerabilities.

In 2021, SMUD increased its commitment to regional workforce development by expanding our partnership portfolio to provide education, build pathways, and facilitate cultural onboarding to enhance diverse employability in the Sacramento Region. Our Sustainable Communities team

has continued to strengthen our support of these partners by leveraging resources and opportunities that help increase awareness and access to livable wage jobs for under resourced communities. We linked California Mobility Center with several nonprofit partners, including Women's Empowerment, Single Mom Strong, so they could increase awareness of advanced manufacturing careers to women who often don't consider this career field. Additionally, we provided new and refurbished laptops for Butte County Office of Education (Sacramento location) and ACC Senior Center to support equitable access to training and job opportunities.

Building off the success of its inaugural "Energy Careers Pathways" solar training class, SMUD launched a new Energy Careers Pathways training in 2021 in partnership with Grid Alternatives. The workforce program recruits individuals from Sustainable Communities target neighborhoods and provides them four weeks of paid instruction; two weeks of online learning and two weeks of in-person instruction in a hands-on, safe format. Upon graduation, participants are matched with potential employers to demonstrate what they've learned by showcasing conduit bending, wired J-boxes, and more. Importantly, while the focus is on solar installation, students also learn about the installation and importance of battery storage and EV charging infrastructure. The new program closed the year with a total of 196 program applicants, 93 participants completing the initial 2-week online training, 52 participants completing the subsequent 2 week in-person training, and 28 job placements. The program continues in 2022 with a completely in-person format and a renewed focus on EV and electrification infrastructure installation.

Shine Program: In its fifth year, the Shine program invests in local nonprofit partners that execute inclusive and equitable projects through collaborations and partnerships supporting our historically under-resourced communities. In 2021, 94 organizations submitted applications with compelling and competitive projects. We received requests for over \$3.2 million in funding for projects to improve access to workforce development trainings, STEM education, energy efficiency and revitalizing neighborhoods. Shine will fund 36 projects totaling \$650,000. With a diverse and inclusive set of deliverables supporting our under resourced communities, the Shine partners impact include energy efficiency in buildings serving seniors, veterans and individuals with disabilities, improved walkability with ADA accessibility along Tillotson Parkway, workforce development skills training with cultural relevance for recent Afghan refugee community, youth development in civic leadership/career exploration and multiple Crime Prevention Through Environmental Design projects in partnership with our local Property Business Improvement Districts.

Our Community Resource Liaison (CRL) program is a loaned SMUD employee program that supports key chamber and nonprofit partners, as well as an employee training opportunity, for up to 12 months. CRLs are responsible for managing and implementing innovative strategies to support businesses, increase membership participation and foster community impact by creating opportunities that promote the partners' operations as well as SMUD's programs and services. Six community partners participated in the CRL program in 2021: the Sacramento Hispanic Chamber of Commerce, the Sacramento Black Chamber, the Sacramento Rainbow Chamber, the Rancho Cordova Chamber, the City of Refuge, and the Minority Business Assistance Recovery Kickstart Program (MBARK). SMUD's investment through the CRL Program enhanced these organizations' ability to implement new services, design and develop new programs, extend and increase current program offerings and enhance community engagement by expanding their reach. To date, five (5) of the 11 CRLs have been promoted within SMUD during or following their work in the CRL program. SMUD also provided direct staff technical, marketing, communications, and administrative support to the Carmichael Chamber and GSEC.

COVID-19 Small and Midsize Business Support: 2021 was the second year of the COVID-19 global pandemic. Our small and mid-size businesses continued to work through state-enforced

mandates, and continued to struggle to pivot their businesses. There were added challenges in 2021, including supply chain delays/shortages and employee retention challenges.

The SMUD Small and Mid-size Business (SMB) Team continued to keep customer safety at the forefront as they virtually assisted customers and provided the personalized level of service our customers expect from SMUD. In 2021, the SMB team of Strategic Account Advisors (SAA) continued to develop and promote on-line resources for customers. Building on the 2020 launch of "explainer video's," we released the "You have control with SMUD MyAccount" and "Commercial Rate Restructure - What you should know," videos.

The SMB team worked closely with program managers at SMUD to "re-design" the Complete Energy Solutions program to be small business friendly. The re-designed program is more encompassing, with a financing option not previously available. Throughout 2021, SMB customers continued to take advantage of a variety of SMUD incentive programs, including Express Energy Solutions, Complete Energy Solutions and the Custom Incentive Program.

Our SMUD "Here to Help" campaign continued in 2021 delivering resources to help our business customers during the pandemic.

Key executions under the "Here to Help" campaign included:

- SMUD.org/BizResources We continued to promote the BizResources landing page featuring local, state and national business resources
- "We are in this together" social media promoting small and mid-size business SMUD "partnership" stories though social media outlets
- SMB Strategic Account Advisor awareness campaign targeted digital, audio + streaming to alert small & midsize businesses they had a personal contact at SMUD to assist them
- Virtual Energy Assessment SAA's continued to offer online energy assessments, prioritizing safety of customers
- Meet the Buyers & Business Resource Expo SMUD virtual expo had a successful second year with opening sessions that included greetings from SMUD Directors and Board members. The Business Resource Expo continued to promote doing business with SMUD but also educated our customers on new technologies and programs offered by SMUD
- You Have Control with SMUD MyAccount video— alerting customers to the many features within SMUD MyAccount that can help customers understand and control their energy usage
- Commercial Rate Restructure: What You Should Know video preparing customers for the upcoming Q4 rate restructure transition; why it was occurring and what customers could expect

The "Here to Help" Campaign addressed the following:

- Proactively informing our business community about COVID-19 resources and related information
- Raising customer awareness that their Strategic Account Advisor (i.e., primary account manager), is available to support and assist
- Development of new business customer digital tools
- Increasing awareness of the availability of digital tools
- For the safety of our employees and our community, shifted education and advisory services from in-person to digital platforms
- Reinforcing our mission that "we are all in this together"

APPENDIX C

SMUD shall assist in retaining, recruiting and growing commercial and industrial ratepaying customers.

Projects announced in 2021 include seven new companies creating 442 new jobs:

- <u>LYT.ai</u> Mobility startup with 15 new jobs in the region
- One Finance Financial Tech (50 jobs) wellbeing is our mission.
- Pluto Bio-Life science (confidential 230 jobs)
- QPQ International Tech expansion to Folsom (IT network infrastructure to enable a digital universe) - 15 jobs
- <u>Kubota Tractor</u> Manufacturing in Elk Grove (125 jobs with planned expansion)
- Humanly Unified conversation AI technology for recruiting/screening platform 5 jobs
- CENTRL Co-working/Flexible workspaces expansion from Oregon to California

Commercial Development: In 2021, our Commercial Development team actively engaged with approximately 225 commercial, mixed-use and residential project developers throughout our service area. Highlights include:

- Strategic outreach on SMUD bundled programs to developers and builders.
- Managing the Statewide Community Infrastructure Program (SCIP) which allows
 development projects to levy property taxes to finance eligible infrastructure expenses,
 including two acquisition agreements for SMUD Fees and Infrastructure.
- Distribution of "Developer Connections" e-newsletters, with a 25%+ open and read rate.
- Began SMUD's Central City 21kV extension plan to support future development projects currently under construction with an estimated completion of 2022.

Central City Growth: The Central City continued to see sustained growth in 2021, especially focused on single- and multi-family development. Development projects located in the Central City face unique challenges based on space constraints and increases in high density development. 17Central located at the former Sacramento Ballet building kicked off construction by D&S Development, which consists of 107 units and ground floor retail. The California Fruit Building is scheduled to finish construction of a boutique hotel in a historic building close to the Golden 1 Center and is expected to begin taking reservations in 2021. The Mansion Inn project began construction adjacent to the California Governor's Mansion, consisting of 190 units and ground floor retail. The project is anticipated to be completed in late 2021, 1430 Q Street, the mixed-use project adjacent to the lively R Street corridor, completed construction and began occupying rental units. The Fort Sutter Hotel completed construction of their midtown hotel in 2020, near the Sutter Medical Complex in midtown and began formally taking reservations in early 2021. New construction and significant building renovations continued to be robust in 2020; at the close of the year, over 92 development projects or significant building renovation projects were being coordinated by SMUD's Commercial Development team within the central city zone, which covers roughly seven square miles.

SMUD continued its coordination efforts with UC Davis' Medical Center Campus expansion to support the planned replacement hospital tower and ambulatory surgical center Aggie Square, the region's first innovation hub with over 1 million square feet of research, wet labs, commercial space and housing. The development models Atlanta's Tech Square aimed at attracting top talent, innovation and companies.

2021 continued the substantial growth for development north of downtown. At Metro Air Park, NorthPoint Development LLC, based out of Kansas City, Missouri, completed construction of a 1.3 million square foot Amazon distribution facility in 2021. NorthPoint has 3 additional buildings under construction as of late 2021. Buzz Oates has 6 buildings under construction as of late

2021. SMUD has received eight new SMUD Rule 16 applications for new buildings that are anticipated to begin construction in 2021 at Metro Air Park. It is anticipated that the development will be 40% built out by the end of 2022. North Lake master plan at Hwy 99 and W. Elkhorn Blvd (formerly Greenbriar) continues robust development, as the developer is commencing construction of the phase two portion of the project. At buildout, North Lake will have over 2,100 residential units. SMUD has significant infrastructure planned for North Lake and Metro Air Park and is working to extend 69kV facilities in the area to support four new substations. At completion, the substations will equate to 250MW of new capacity in the area to accommodate future growth.

In Folsom South, residential construction is well underway and is projected to bring over 11,000 new housing units over several years. Major builders such as Toll Brothers, Lennar, KB Home, Richmond American, The New Home Company have completed their initial subdivisions. Two new medical campuses and a new high school are planned for the area and SMUD staff worked closely with their teams in 2021 in planning for facilities to serve the initial load requirements.

Rancho Cordova continues to be one of the fastest growing in the region. SMUD staff worked closely with developers in the Rio Del Oro development with its initial subdivision and two significant industrial customers. KHovnanian broke ground on its first phase and is planning to go All-Electric. In Elk Grove, SMUD worked with City Staff on the Southeast Industrial Area (SEIA) in providing input into a supplemental environmental impact report to include SMUD needs to serve the development. The SEIA Project involves the annexation of up to 571 acres into the City of Elk Grove from unincorporated Sacramento County and the development of this area with a range of industrial and commercial uses. The annexation is taking place in phases. The first phase occurred in June 2021 and covers approximately 390 acres (referred to as the Phase 1 Annexation). To accomplish this, the Project included amendments to the City General Plan, the adoption of Prezoning, adoption of a Specific Plan, and the establishment of infrastructure master plans addressing public water, sewer, drainage, and transportation.

In addition, the Commercial Development team worked closely in numerous, high-profile and critical projects to the community including transitional, low-income, and supportive housing such as St. Anton Communities and WEAVE. Transformational projects such as the Railyards, the Department of General Services' Richards Boulevard Office Complex, and multiple master plan residential projects. Development projects include Folsom South, Barrett Ranch, and on additional infrastructure coordination to support development in Rio del Oro, the Sunridge Specific Plan Area along Douglas Road and Sunrise Blvd in Rancho Cordova.

Indoor Cultivation: The Customer Experience Delivery team turned to technology again in 2021 to realize another successful year supporting SMUD's existing and future indoor cultivation customers. As an essential business, the cannabis industry continued to grow its presence in SMUD's territory as evidenced by an 85% increase in revenue directly correlated to the increase in facilities coming online exceeding \$17 million in 2021.

2021 marked the third year of SMUD's partnership with the Greater Sacramento Urban League's Cannabis Opportunity Reinvestment and Equity (CORE) program. The purpose of this program is to provide equitable access to the cannabis industry through education and training. Members of the program receive support and guidance in developing their facilities. They are taught best practices in using energy efficiently and how to take advantage of SMUD's resources including energy efficiency incentives, program resources, and a dedicated Strategic Account Advisor to provide ongoing support and direction. We have now presented to over 60 graduates and continue to support those adversely affected by the disproportionate enforcement of cannabis regulation. As a result of the program, participants have been provided

the education, tools, and support required to build successful businesses in the cannabis industry ranging from multi-faceted incubator facilities to the brick-and-mortar dispensaries.

APPENDIX D

SMUD shall offer economic development rates and program incentives.

SMUD offers economic incentives to help attract new businesses and expand existing ones to grow the regional economy. Incentives range from helping design new construction to offering energy-efficient upgrades for equipment to proposing our Economic Development Rate (EDR).

Economic Development Rate: Customers that exceed 299kW for three consecutive months may qualify for the EDR. This rate has multiple options for our customers, including a frontloaded rate to help reduce initial operating costs, or a fixed discount over the ten-year period. Customers who locate in a disadvantaged community have the same options, but with a larger discount. Additionally, an economic impact study is performed by the Greater Sacramento Economic Council. This ensures the customer is aware of other economic development programs and incentives.

Size	Term	Industry Requirements	Job Requirements	Full Service Requirement	Discount
300kW+	10 years	No limitations	No minimum requirement	No	Two options for customers to choose: Standard EDR Opt A: 6% for years 1-5, declining 1% per year for years 6-10 Opt B: 4.5% for 10 years Rate for Disadvantaged Communities Opt A: 8% for years 1-5, declining 1.5% per year for years 6-10 Opt B: 6% for 10 years

Program Incentives: SMUD offered energy efficiency and electrification incentives to help meet the financial responsibility goals and growing sustainability needs of our commercial customers. Our programs offered incentives to help customers install new energy-saving equipment and make energy efficiency and electrification modifications to their buildings. The effort is part of SMUD's goal to achieve 100% net-zero-carbon by 2030. Incentives offered included but are not exclusive of, energy efficient heating and cooling, domestic hot water, induction cooking, and vehicle electrification, among many others.

Overall, we provided incentives to 363 commercial customers for a combined total program energy savings of 10.71 GWh.

APPENDIX E

SMUD shall offer a contracting program for certified small businesses who are ratepaying customers.

In 2021, we exceeded our SEED Program goal of awarding at least 20% of all contracts to certified small businesses. Specifically, we awarded 23% through over 100 SEED contracts totaling approximately \$48 million.

Award Type		2021	
	Total PO \$	PO Count	Program %
SEED Prime	\$ 49,274,589.85	30	66%

SEED Sub-Contractors	\$ 23,479,105.71	0	31%
Sheltered Market	\$ 1,243,558.89	10	2%
Exempt	\$661,328.31	82	1%
Grand Total	\$48,000,000	122	100%

Note: The acronym PO refers to "Purchase Orders."

The SEED team focused its efforts on the following key outreach initiatives:

- Availability Study: The Availability Study, a service area business census of vendors likely to do business with SMUD, was completed in 2021 Study data was overlayed onto the Resource Map to inform strategy, outreach and resource allocation to engage businesses in contracting opportunities and remove obstacles for under-resourced communities interested in doing business with SMUD.
- Business Advisory Committee (BAC): SEED hosted four quarterly meetings in 2021 for BAC business organization leaders, raising awareness about the SEED program, the 2030 Zero Carbon Plan, best practices, sponsored events, incentives, commercial programs and contracts awarded to BAC members' constituents.
- How to Do Business with SMUD: The SEED team used virtual formats and collaborated with community partners to deliver 10 educational workshops on SMUD's procurement program and promote SEED participation opportunities. In 2021, the team delivered the first workshop in Spanish language to the Sacramento Hispanic Chamber of Commerce's Emprende cohort.
- "Meet the Buyers" Conference: SEED's 10th Annual Meet the Buyers Conference pivoted to a virtual conference format. SEED partnered with the SMB team to expand the event to the Meet the Buyers & Business Resource Expo and included commercial program/resource information. The successful event drew a record 424 registrants, offering 13 panel sessions and education workshops, over 25 speakers and 15 virtual exhibitors. The event was very well-received, with survey results confirming a 100% "met or exceeded expectations" event satisfaction level.
- **SEED Ambassador Program:** The program engages designated employees within SMUD business units in promoting the use of SEED vendors in their workgroup's contracting activities. The program has over 35 participants and continues to see more referrals from employees, who have also been active in Meet the Buyers and Business Advisory Committee meetings.
- Sheltered Market Initiatives: The SEED team continually explores innovative ways to foster small business participation in solicitations and worked closely with Supply Chain to identify 6 sheltered market contracting opportunities in the areas of commodities and professional services. The contracts are specific only to verified SEED vendors and totaled approximately \$377,000.
- **SEED Quarterly Newsletter:** The SEED team distributed over 572 electronic copies of the quarterly newsletter to external partners and SEED Ambassadors to highlight SEED program resources and contracting opportunities. It features information including free government contracting services, SEED supplier success stories, recent contract awards, upcoming bid opportunities, and small business events and workshops, and it is also available on smud.org.
- **Procurement Platform Transition to Ariba:** The SEED team continued to collaborate with Procurement to support the evolution of the Ariba platform, addressing and identifying solutions for supplier experience and enhancements, as well as providing training to local small businesses.



RESOLUTION NO.	

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

This Board accepts the monitoring report for Strategic Direction SD-13,
Economic Development Policy, substantially in the form set forth in Attachment
hereto and made a part hereof.

333 NO.	DP&U 22-005	

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BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Finance & Audit – 10/18/22
Board Meeting Date
October 20, 2022

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1.	Claire Rogers	re Rogers					6.											
2.	Frankie McDe	Frankie McDermott					7.											
3.	Jennifer David	lson						8.										
4.	Lora Anguay							9.	Lega	ıl								
5.	Scott Martin							10.	CEC) &	Ger	era	al N	Manager				
Cor	sent Calendar	X Yes		No If	no, schea	dule	e a dry run presentation.	Bud							lf no, explain in Cost/Budgeted ection.)			
FRC	M (IPR)					[DEPARTMENT	<u>, l</u>						MAIL STOP	EXT.		DATE SENT	
	ria Veloso Koen	iig				I	Distribution Planning	g & O	peratio	ons				EA403	5794		9/23/22	
	RRATIVE:																	
	Requested Action: Discuss the policy and process for Strategic Direction SD-14, System Enhancement (SD-14) and accept the monitoring report for SD-14. Summary: The purpose is to provide the Board with the annual update on SD-14, System Enhancement, for the year 2021. The information in the monitoring report could be used by the Board to determine if the policy needs to be revised or further developed. If so, those items could be scheduled for subsequent meetings. Staff will also discuss how local agencies can leverage SD-14 to mitigate the impact of power poles located on sidewalks.								or the year policy needs ngs. Staff will									
	Board Policy: (Number & Title)		ı, Sy	stem	Enhanc	cen	nent.											
	Benefits	its: Allows the Board of Directors a better understanding of Board Policies and gives them an opportunity to make revisions if necessary.																
	Cost/Budgeted: In June 2020, the Board approved suspension of funding new projects under SD-14 for 2020, 2021 and 2022 (Resolution 20-06-23). Previously committed projects, a total of four, under the Policy would continue to be funded during these years. The total 2021 budget for these four projects was \$1.23 million and the 2021 actual spending was approximately \$1.22 million.								continue to									
Alternatives: Provide the Board written reports and communications through the CEO &) & General	Manage	er.									
A	Affected Parties: N/A																	
	Coordination:	Line A	Line Assets: Local Government Affairs															

Additional Links:		

SUBJECT
SD-14, System Enhancement Board Monitoring Report

ITEM NO. (FOR LEGAL USE ONLY)

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

Presenter: Maria Veloso Koenig; Director, Distribution Planning & Operations

SMUD-1516 1/16 Forms Management Page 0

SMUD BOARD POLICY

Category: Strategic Direction | Title: System Enhancement

Policy Number: SD-14

Date of Adoption: November 3, 2005 Resolution No. 05-11-06

Revised: August 7, 2008 Resolution No. 08-08-02

Revised: October 16, 2008 Resolution No. 08-10-09

Revised: September 21, 2017 Resolution No. 17-09-06

As a community-owned utility, SMUD recognizes that the relocation or underground placement of primary voltage power lines may be desirable to local jurisdictions to improve aesthetics, economic vitality, safety and disabled access. Therefore, it is a key value of SMUD to make selected distribution system enhancements, such as permanent relocation or underground placement of existing primary power lines below 69 kV.

- a) SMUD will, at its expense and where technically feasible, permanently relocate or underground existing overhead distribution facilities provided the governing body of the city or county in which the electric facilities are and will be located has:
 - i) Identified, after consultation with SMUD, a specific system enhancement project;
 - ii) Determined the project is in the public interest;
 - iii) Ensured all existing overhead communication facilities related to the project will also be permanently relocated or placed underground;
 - iv) Obtained and provided SMUD with all easements necessary for the project.
- b) After achievement of core financial targets, SMUD will annually commit up to onehalf of one percent of its annual gross electric sales revenue to system enhancements. The proposed projects will be subject to SMUD's annual budget approval process, and uncommitted funds from any given year will not be carried

over to future years. Funding will be assigned to projects brought forward by local cities or counties based on applying the following criteria (not in order of preference):

- i) Project scale and/or cost when measured against available SMUD resources.
- ii) Requesting entity has developed full scope, obtained all necessary easements, and development plan for customer service conversion from overhead to underground, as required.
- iii) Extent to which the costs are borne by others.

Monitoring Method: GM Report

Frequency: Annual

SACRAMENTO MUNICIPAL UTILITY DISTRICT

OFFICE MEMORANDUM

TO: Board of Directors **DATE:** October 5, 2022

FROM: Claire Rogers @2 10/5/22

SUBJECT: Audit Report No. 28007428

Board Monitoring Report; SD-14: System Enhancement

Audit and Quality Services (AQS) received the SD-14 System Enhancement 2021 Annual Board Monitoring Report and performed the following:

- A review of the information presented in the report to determine the possible existence of material misstatements;
- Interviews with report contributors and verification of the methodology used to prepare the monitoring report; and
- Validation of the reasonableness of a selection of the report's statements and assertions.

During the review, nothing came to AQS' attention that would suggest the SD Board Monitoring report did not fairly represent the source data available at the time of the review.

CC:

Paul Lau

Board Monitoring Report 2021 SD-14, System Enhancement



1) Background

Strategic Direction 14, the System Enhancement Board policy states that:

As a community-owned utility, SMUD recognizes that the relocation or underground placement of primary voltage power lines may be desirable to local jurisdictions to improve aesthetics, economic vitality, safety and disabled access. Therefore, it is a key value of SMUD to make selected distribution system enhancements, such as permanent relocation or underground placement of primary power lines below 69 kV.

- a) SMUD will, at its expense and where technically feasible, permanently relocate or underground existing overhead distribution facilities provided the governing body of the city or county in which the electric facilities are and will be located has:
 - i) Identified, after consultation with SMUD, a specific system enhancement project;
 - ii) Determined the project is in the public interest;
 - iii) Ensured all existing overhead communication facilities related to the project will also be permanently relocated or placed underground;
 - iv) Obtained and provided SMUD with all easements necessary for the project.
- b) After achievement of core financial targets, SMUD will annually commit up to one-half of one percent of its annual gross electric sales revenue to system enhancements. The proposed projects will be subject to SMUD's annual budget approval process, and uncommitted funds from any given year will not be carried over to future years. Funding will be assigned to projects brought forward by local cities or counties based on applying the following criteria (not in order of preference):
 - i) Project scale and/or cost when measured against available District resources.
 - ii) Requesting entity has developed full scope, obtained all necessary easements, and development plan for customer service conversion from overhead to underground, as required.
 - iii) Extent to which the costs are borne by others.

2) Executive summary

SD-14 states that SMUD "will annually commit up to one-half of one percent of its annual gross electric sales revenue to system enhancements." However, as a result of SMUD's financial challenges caused by the COVID-19 pandemic, on June 9, 2020 the Board of Directors approved suspension of funding *new* projects under SD-14 for 2020, 2021 and 2022 (Resolution 20-06-03). Previously committed projects (a total of four) under the Policy continued to be funded during these years.

SMUD **is in compliance** with SD-14, System Enhancement.

The planning and execution of SD-14 projects is typically a multi-year process that starts with a preliminary work scope that is used to determine a ballpark cost estimate, to the finalization of the work scope that includes a detailed design and detailed cost estimate. After necessary permits and easements are obtained, the project is released for execution/construction. Tables 1 and 2 below show the committed projects and their status in 2021. The budget for these four multi-year projects were included in the approved operational plans and budgets.

rabio 1. Committed projecto completed in Zoz	Table 1: Committe	d projects co	2021 ompleted in
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Local Jurisdiction	Project Title	Total Cost Estimate ^(a)	2021 Project Budget	2021 Project Spend	Project Status
Sacramento County	Fair Oaks Blvd Landis to Angelina (0.3 mile)	\$361K	\$0K ^(b)	\$82K	completed in Q1 2021
Sacramento County	Hazel Avenue Phase 3 Sunset to Madison (0.7 mile)	\$1,443K	\$1,153K	\$1,138K	completed in 2021

- (a) Cost estimate is based on the detailed design.
- (b) The original schedule called for the project to be completed by the end of 2020. Some work carried over into Q1 2021.

Table 2: Committed projects with preliminary work scope

Local Jurisdiction	Project Title	Ballpark Cost Estimate	2021 Project Budget	2021 Project Spend	Project Status
Citrus Heights	Auburn Blvd. Rusch Park to I-80 (0.75 mile)	\$2,500K	\$0	\$3.3K	2024 planned construction start date
Elk Grove	Elk Grove Blvd b/w Waterman & School Streets (~0.5 mile)	\$1,000K	\$81K	\$0.7K	2024 planned construction start date

Mitigation of poles located on sidewalks

Staff researched and evaluated options to help local agencies mitigate the impact of poles that are located on sidewalks. This effort included a review of existing intake processes for local agency projects as well as meeting with representatives from Sacramento County, Citrus Heights, Elk Grove, Folsom, Rancho Cordova, and the City of Sacramento to discuss SMUD's SD-14 program. The purpose of the meetings was to elicit thoughts from local agency staff on how the SD-14 program could be made more usable.

The process moving forward

Customer inquiries/concerns regarding poles on sidewalks will continue to be referred to and handled by the local agencies who are the responsible entities and subject matter experts for sidewalk design, maintenance, and condition evaluation.

To help local agency staff identify and prioritize locations for the agencies' potential sidewalk maintenance or streetscape improvement projects, SMUD will annually prepare maps of commercial corridors with overhead lines and share these maps with the local agencies, as suggested during our meetings with them. The maps, which will show locations of SMUD's poles, could also be used as a reference for other capital improvement projects to help improve project planning and coordination.

As part of ongoing education efforts, SMUD staff will also meet with new local agency staff to educate them about SMUD's SD-14 program and how they can leverage our program to mitigate the impact of poles and sidewalks.

Finally, SD-14 requires the local agencies to provide a public utility easement for newly underground electrical lines to ensure SMUD is not responsible for future relocation costs and has the necessary right for future maintenance. However, feedback from local agencies is that easement acquisition can be a challenge in areas where there may not be sufficient space. To overcome this challenge, SMUD staff will continue exploring custom agreements with local agencies that govern future financial obligations for relocation when SMUD's facilities remain in the road right-of-way.

3) Additional supporting information

Since the adoption of the SD-14 policy, eleven projects have been funded through the policy for a total of \$12.04 million. Table 3 below lists the projects completed by year.

Table 3: Completed Projects Since Policy Adoption

Local Jurisdiction	Project Description	SMUD Construction Completion	SMUD Project Cost
Sacramento County	Fair Oaks Blvd Landis to Angelina (0.3 mile)	2021	\$0.25 M
Sacramento County	Hazel Avenue Phase 3 Sunset to Madison (0.7 mile)	2021	\$1.2 M
City of Sacramento	Sutter Village (~200 feet)	2019	\$0.12 M
City of Sacramento	Ice Blocks Project R Street b/w 16th & 18th Streets (1,000 ft.)	2017	\$0.47 M
Sacramento County	Hazel Avenue Phase 2 b/w Curragh Downs & Sunset Ave. (1 mile)	2017	\$2.3 M
Sacramento County	Fair Oaks Blvd. b/w Landis Ave. & Engle Rd. (0.5 mile)	2016	\$1.2 M
City of Sacramento	16th and O Streets (1,000 ft.)	2013	\$0.3 M

Citrus Heights	Auburn Blvd. b/w Sylvan Corners & Rusch Park (1 mile)	2013	\$2.6 M
Sacramento County	ramento North Highlands Town Ctr.		\$1.1 M
City of Sacramento	7th St. b/w North B & Richards Blvd. (1,500 ft.)	2012	\$1.3 M
City of Sacramento	Richards Blvd. b/w North 5th & North 7th Streets (1,000 ft.)	2012	\$1.2 M

Total: \$12.04 M

4) Challenges

There were no challenges encountered with the implementation of the Board policy in 2021.

5) Recommendation

It is recommended that the Board accept the 2021 Monitoring Report for SD-14, System Enhancement.



RESOLUTION NO) .			

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

This Board accepts the monitoring report for Strategic Directi	on SD-14,
System Enhancement, substantially in the form set forth in Attachment	hereto
and made a part hereof.	

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CFO 22-009

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Finance & Audit
October 18, 2022
Board Meeting Date
October 20, 2022

	ТО								ТО				
1.	Jennifer David	lson	son 6.										
2.	Lora Anguay					7.							
3.	Scott Martin					8.							
4.						9.	L	Legal					
5.						10.	C	CEO &	Gene	ral	Manager		
Coi	nsent Calendar	Yes		No If no, sched	dule a dry run presentation.	Buc	dget	ted	Yes		No (If no, exp section.)	olain in Co	st/Budgeted
FRO	OM (IPR)				DEPARTMENT						MAIL STOP	EXT.	DATE SENT
	nifer Restivo				Planning & Performa	ance					B356	5193	10/7/22
	RRATIVE: quested Action:				o the SMUD 2022 Bud								
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Additional Links:			

SUBJECT

SMUD 2022 Budget Resolution Amendment

ITEM NO. (FOR LEGAL USE ONLY)

11

RESOL	.UTION	NO.			

WHEREAS, by Resolution No. 21-12-10, adopted December 9, 2021, this Board approved the **2022 Budget Resolution**, including a line item expenditure for \$440,680,590 for Commodity – purchased power, fuel, and wheeling; and

WHEREAS, there is now a need to augment the SMUD 2022 Budget, which will increase the line item expenditure for Commodity – purchased power, fuel, and wheeling by \$309,319,410; **NOW, THEREFORE**,

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

Section 1. Section 2. Of Resolution No. 21-12-10 is hereby amended to increase the funds budgeted for the line item for Commodity – purchased power, fuel, and wheeling to increase the 2022 Commodity – purchased power, fuel, and wheeling budget to \$750,000,000.

Section 2. In all other respects, the 2022 Budget Resolution is reaffirmed.

SSS No. SCS 22-280	

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date						
Finance & Audit – 10/18/22						
Board Meeting Date						
October 20, 2022						

ТО								то							
1.	Jesse Mays						6.	Scott M	Scott Martin						
2.	Robert Ada	ms					7.								
3.	Casey Fallo	n					8.								
4.	Jennifer Da	vid	son				9.	Legal							
5.	Lora Angua	y					10.	CEO &	g Ge	eneral N	lan	ager			
	Consent X Yes No If no, schedule a dry run presentation.				Budg	Budgeted x Yes No (If no, explain in Cost/Budgeted section.)				udgeted					
FROM (IPR) DEPARTMENT											MAIL STOP	EXT.	DATE SENT		
Kimberly Bowman Supply Chain S					Service	rvices EA404 5937 9/30/2022					9/30/2022				
NAI	NARRATÍVE:														

Requested Action:

Approve an increase the aggregate contract not-to-exceed amount for fleet bulk fuel and fleet fuel card program services by \$12,481,000, from \$16 million to \$28.48 million, for Contract Nos. 4600001005 and 4500097459with RAMOS OIL COMPANY INC.

Summary:

The contracts were awarded on a competitive basis to Ramos Oil Company Inc in April 2016 (Board Resolution No. 16-05-08). The original contracts were awarded for the period from June 1, 2016, to May 31, 2019, for an aggregate not-to-exceed amount of \$10,000,000.

The Fleet Bulk Fuel Contract No. 4600001005 supplies SMUD with Unleaded Gasolines, Ultra Low Sulfur Diesel, Bio-Diesels: B5, B10, B15 and B20 and renewable diesel to all SMUD facilities. Contract Change No. 1 to Contract No. 4600001005 extended the term date to 1/31/20. Contract Change No. 2 to Contract No. 4600001005 extended the term date to 1/31/21. Contract Change No. 3 to Contract No. 4600001005 increased the contract not-to-exceed amount by \$3,800,000 to \$8 million (per the BL-8 limit) and extended the term to 12/31/2024.

The Fleet Fuel Card Program Contract No. 4500097459 supplies fuel cards to SMUD. Ramos also provides fuel card fueling at 26 of their locations in addition to over 55,000 fleetwide sites. Additionally, Ramos' fuel card program provides immediate lockout of cards, time of day and day of week fueling restrictions, product control, transaction and gallons limits, email notifications, and real-time access to our account information 24/7. Contract Change No. 1 to Contract No. 4500097459 extended the term date to 1/31/20. Contract Change No. 2 to Contract No. 4500097459 extended the term date to 1/31/21. Contract Change No. 3 to Contract No. 4500097459 increased the contract not-to-exceed amount by \$1,000,000. Contract Change No. 4 to Contract No. 4500097459 increased the contract not-to-exceed amount by \$1,200,000 to \$8 million (per the BL-8 limit) and extended the term to 12/31/2024.

In April 2016 when the initial contracts were awarded the BL-8 limits for operational inventory and non-inventory materials were \$5 million and \$3 million, respectively. In December 2016, those board limits were each raised to \$8 million. Contract Change No. 3 to Contract No. 4600001005 and Contract Change No. 4 to Contract No. 4500097459 were executed in compliance with the delegated authority of the Director, Procurement, Warehouse & Fleet.

Because these contracts include cost control mechanisms that are constantly aligning with the market fuel rate and Ramos has performed well for SMUD under these contracts, it is in SMUD's best interest to increase and continue with these contracts.

On August 23, 2022, we paid \$4.38 per gallon, which is below the fair market price of \$4.91 shown by Procurement IQ. The actual amount paid for the fuel per gallon will rise and fall based on the OPIS,

Sacramento Daily Rack average for unleaded fuel and diesel and San Francisco Spot Market for ethanol (E-85) plus Ramos' markup. SMUD consistently receives fair and reasonable pricing from Ramos.

Currently, the aggregate contract balance is approximately \$2,281,000

Contract Actions	Amount	Cumulative Total	Description
Original Contract	\$10,000,000		
Change No. 01	\$0.01		Extend expiration date to 01/31/20
Change No. 02	\$0.01		Extend expiration date 01/31/21
Ariba PR735	\$1,000,000	\$11,000,000	Added \$1M to contract
			4500097459
Ariba PR3293	\$1,200,000	\$12,200,000	Added \$1.2M and extended
			expiration date to 12/31/24 on
			contract 4500097459.
Ariba3291	\$3,800,000	\$16,000,000	Added \$3.8M and extended
			expiration date to 12/31/24 on
			contract 4600001005.
Pending Change No. 03	\$12,481,000	\$28,481,000	Increase contract amount

Board Policy: Board-Staff Linkage BL-8, Delegation to the Chief Executive Officer and General Manager with Respect to

(Number & Title) Procurement; Strategic Direction SD-7, Environmental Leadership

Benefits: Increasing these contracts will ensure a continuation of a stable supply of fuel and a fuel card program.

Cost/Budgeted: \$12,481,000; Budgeted for 2022-2024 by Corporate Financial & Enterprise Services, Fleet.

Alternatives: Do not increase and re-bid or purchase fuel on a spot buy basis.

Affected Fleet, Supply Chain Services, and Ramos Oil Company Inc.

Parties:

Coordination: Fleet and Supply Chain Services.

Presenter: Casey Fallon, Director, Procurement, Warehouse & Fleet

Additiona	l Links:
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SUBJECT

Increase the Bulk Fuel and Fuel Card Program Contract Amounts

12

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

RESOLUTION NO.					

WHEREAS, by Resolution No. 16-05-08, adopted on May 19, 2016, this
Board authorized the Chief Executive Officer and General Manager to award contract(s)
for fleet fuel card program services (Fleet Fuel Card Program Contract No.
4500097459) and for fleet bulk fuel services (Fleet Bulk Fuel Contract No.
4600001005) (collectively, the Contracts) to Ramos Oil Company Inc. (Ramos) in the aggregate amount of \$10 million for a three-year period from June 1, 2016, to May 31, 2019; and

WHEREAS, Contract Change No. 1 to the Contracts extended the expiration date to January 31, 2020; and

WHEREAS, Contract Change No. 2 to the Contracts extended the expiration date to January 31, 2021; and

WHEREAS, Contract Change No. 3 to the Fleet Fuel Card Program

Contract No. 4500097459 increased that contract by \$1 million; and

WHEREAS, Contract Change No. 3 to the Fleet Bulk Fuel Contract No. 4600001005 increased that contract by \$3.8 million and extended the expiration date to December 31, 2024; and

WHEREAS, Contract Change No. 4 to the Fleet Fuel Card Program Contract No. 4500097459 increased that contact by \$1.2 million and extended the expiration date to December 31, 2024; and

WHEREAS, by Resolution No. 16-12-18, adopted on December 15, 2016, this Board raised the limit for operational inventory and non-inventory materials under Board-Staff Linkage BL-8, Delegation to the Chief Executive Officer and General

Manager (BL-8) from \$5 million and \$3 million, respectively, each to \$8 million, and Contract Change No. 3 to the Fleet Bulk Fuel Contract No. 4600001005 and Contract Change No. 4 to the Fleet Fuel Card Program Contract No. 4500097459 were executed in compliance with the delegated authority of the Director, Procurement, Warehouse & Fleet; and

WHEREAS, increasing the aggregate amount for the Contracts will ensure continuity while maintaining cost control mechanisms that constantly align with market fuel rates; NOW, THEREFORE,

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

Section 1. That this Board hereby authorizes the Chief Executive

Officer and General Manager, or his designee, to increase the aggregate contract notto-exceed amount by \$12,481,000, from \$16 million to \$28.48 million, for Contract No.
4500097459 for fleet fuel card program services (Fleet Fuel Card Program Contract)
and Contract No. 4600001005 for fleet bulk fuel services (Fleet Bulk Fuel Contract)
(collectively, the Contracts) with Ramos Oil Company Inc.

Section 2. The Chief Executive Officer and General Manager, or his designee, is authorized to make future changes to the terms and conditions of the Contracts that, in his prudent judgment: (a) further the primary purpose of the Contracts; (b) are intended to provide a net benefit to SMUD; and (c) do not exceed the authorized contract amounts and applicable contingencies.

SSS No. SCS 22-279

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Finance & Audit – 10/18/22
Board Meeting Date
October 20, 2022

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1.	Jesse Mays					6.	Jennif	er I	Davids	on			
2.	Robert Adam	S				7.	Lora A	Ang	uay				
3. Casey Fallon 8. Scott M					Scott Martin								
4.	Attila Miszti					9.	Legal						
5.	Frankie McD	erm	nott			10.	СЕО	& (Genera	ıl N	Aanager		
	Consent Calendar X Yes No If no, schedule a dry run presentation.			Bud	geted	х	Yes		No (If no, exp section.)	olain in Cos	t/Budgeted		
FROM (IPR) DEPARTMENT										MAIL STOP	EXT.	DATE SENT	
Kat	Katherine Manne Procurement					EA404 6175 9/30/2022				9/30/2022			
NAI	NARRATIVE:												

Requested Action:

Approve an increase to the aggregate contract not-to-exceed amount for general line construction services by \$20 million, from \$20 million to \$40 million, for Contract No. 4600001474 with Hot Line Construction, Inc. and Contract No. 4600001475 with Mountain G Enterprises.

Summary:

The original contracts were awarded on a competitive basis to Hot Line Construction, Inc. and Mountain G Enterprises in March 2021 (Resolution No. 21-03-06). The original contracts were awarded for the period from March 22, 2021, to March 21, 2023, for a total aggregate contract not-to-exceed amount of \$20 million. The work generally consists of overhead and underground line construction and maintenance on 12/21kv and 69kv sub transmission lines.

Contract Change No. 01 to Contract No. 4600001474 with Hot Line Construction, Inc. increased their rates by 7.14%, 5.44% of which accounted for labor as a direct result of Hot Line's agreement with the International Brotherhood of Electrical Workers (IBEW) 1245 that became effective on June 1, 2022. The remaining 1.7% of the increase was for increased fuel costs since the time of bid.

Contract Change No. 01 to Contract No. 4600001475 with Mountain G Enterprises increased Rate Schedule, Part B, Line Items 11 and 12 by \sim 36% and \sim 45%, respectively.

Contract Change No. 02 to Contract No. 4600001475 with Mountain G Enterprises added subcontractor, WBE Traffic Control Inc. to Exhibit I - Designation of Prime Contractor, Subcontractors and Suppliers to perform traffic control where lane closures and/ or night work is required. WBE Traffic Control Inc. is a verified Supplier Education and Economic Development (SEED) vendor.

Contract Change No. 03 to Contract No. 4600001475 with Mountain G Enterprises increased their rates by 5.2% as a direct result of Mountain G Enterprises' agreement with the IBEW 1245 that became effective on June 1, 2022.

SMUD has been adversely affected by the labor climate induced by Pacific Gas & Electric (PG&E) and their ongoing commitment to reduce wildfire risk across its service area. As a result, SMUD has lost contract crews that supported critical Line Assets programs. This loss has caused Line Assets to strategically realign its workload and the work performed by internal SMUD crews. Securing the services provided by Hot Line Construction, Inc. and Mountain G Enterprises will allow the business unit the ability to augment general line construction work while maintaining flexibility in its realignment efforts.

Wood Mackenzie Supply Market Cost Intelligence predicts a labor increase of 12% from contract award, March 2021 to March 2025. This information confirms pricing from Hot Line Construction, Inc. and Mountain G Enterprises is fair and reasonable.

Currently, the contract balance is approximately \$1,996,000.

Contract Actions	Amount	Cumulative Total	Description
Original Contract	\$20,000,000	\$20,000,000	
4600001475 Change No. 01	\$0.00	\$20,000,000	Increase Rate Schedule, Part B, Line Items 11 and 12
4600001475 Change No. 02	\$0.00	\$20,000,000	Add Subcontractor
4600001474 Change No. 01 4600001475 Change No. 03	\$0.00	\$20,000,000	Increase Rates
Pending Board Approval	\$20,000,000	\$40,000,000	Increase Total Aggregate Amount

Board Policy: (Number & Title)

Board-Staff Linkage BL-8, Delegation to the Chief Executive Officer and General Manager with Respect to Procurement; Strategic Direction SD-4, Reliability; Strategic Direction SD-6, Safety Leadership; Strategic

Direction SD-13, Economic Development Policy

Benefits:

The additional \$20 million in funding will allow Hot Line Construction Inc. and Mountain G Enterprises to

continue performance on critical projects for SMUD.

Cost/Budgeted:

\$40 million; Budgeted through March 2025 by Energy Delivery & Operation, Line Assets.

Alternatives:

Solicit new contracts. It will take SMUD approximately six months to resolicit new contracts that will likely

result in the same outcome.

Affected Parties:

Line Assets, Supply Chain Services, and Contractor.

Coordination:

Line Assets and Supply Chain Services.

Presenter:

Casey Fallon, Director, Procurement, Warehouse & Fleet

Additional Links:		

SUBJECT

Increase in Aggregate Contract Amount for General Line Construction

ITEM NO. (FOR LEGAL USE ONLY)

13

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

RESOLUTION	ON NO.					

WHEREAS, by Resolution No. 21-03-06, adopted on March 18, 2021, this Board authorized the Chief Executive Officer and General Manager to award Contract No. 4600001474 to Hot Line Construction, Inc. (Hot Line Contract) and Contract No. 4600001475 to Mountain G Enterprises (Mountain G Contract) (collectively, the Contracts) to provide general line construction work for a period of two years from March 22, 2021, to March 21, 2023, for a total aggregate contract amount not-to-exceed \$20 million; and

WHEREAS, Contract Change No. 1 to the Hot Line Contract increased rates by 7.14%, 5.44% of which accounted for labor and 1.7% for increased fuel costs; and

WHEREAS, Contract Change No. 1 to the Mountain G Contract increased Rate Schedule Part B, Line Items 11 and 12 by approximately 36% and 45%, respectively; and

WHEREAS, Contract Change No. 2 to the Mountain G Contract added Supplier Education and Economic Development (SEED) subcontractor WBE Traffic Control Inc. to Exhibit I - Designation of Prime Contractor, Subcontractors and Suppliers to perform traffic control where lane closures and/or night work is required; and

WHEREAS, Contract Change No. 3 to the Mountain G Contract increased rates by 5.2% for labor; and

WHEREAS, SMUD has been adversely affected by the labor climate induced by Pacific Gas & Electric (PG&E) and its ongoing commitment to



reduce wildfire risk across its service area and the resultant loss of contract crews that supported critical Line Assets programs; and

WHEREAS, increasing the total aggregate amount for the Contracts will allow SMUD to augment general line construction work while maintaining flexibility to realign its internal workforce to complete workload; NOW, THEREFORE,

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

Section 1. That this Board hereby authorizes the Chief Executive Officer and General Manager, or his designee, to increase the aggregate contract not-to-exceed amount for general line constructions services by \$20 million, from \$20 million to \$40 million, for Contract No. 4600001474 with Hot Line Construction, Inc. and Contract No. 4600001475 with Mountain G Enterprises (collectively, the Contracts).

Section 2. The Chief Executive Officer and General Manager, or his designee, is authorized to make future changes to the terms and conditions of the **Contracts** that, in his prudent judgment: (a) further the primary purpose of the **Contracts**; (b) are intended to provide a net benefit to SMUD; and (c) do not exceed the authorized contract amounts and applicable contingencies.

SSS No. SCS 22-278	

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Finance & Audit – 10/18/22
Board Meeting Date
October 20, 2022

	TO.						TO.						
	ТО					ТО							
1.	Jesse Mays					6.	Jenni	fer :	Davids	son			
2.	Robert Adams					7.	Lora Anguay						
3.	Casey Fallon				8.	Scott	Ma	rtin					
4.	Attila Miszti				9.	Legal							
5.	5. Frankie McDermott				10.	CEO & General Manager							
Consent Calendar x Yes No If no, schedule a dry run presentation.		Bud	Budgeted x Yes			No (If no, exp section.)	olain in Cos	t/Budgeted					
FROM (IPR) DEPARTMENT									MAIL STOP	EXT.	DATE SENT		
Katherine Manne Procurement										EA404	6175		
NA	NARRATIVE:												

Requested Action:

Approve an increase to the aggregate contract not-to-exceed amount for Upper American River Project (UARP) Reservoir Project Wildfire Risk Reduction services by \$5 million, from \$8 million to \$13 million, for Contract No. 4600001538 with TSU-Tree Service Unlimited, Inc., Contract No. 4600001539 with Mountain F. Enterprises, Inc., and Contract No. 4600001540 with The Original Unlimited Tree Service Co.

Summary:

The original contracts were awarded on a competitive basis to TSU-Tree Service Unlimited, Inc., Mountain F. Enterprises, Inc., and The Original Unlimited Tree Service Co. in November 2021. The original contract was awarded for the period from November 23, 2021, to December 31, 2024, for an aggregate not-to-exceed amount of \$8 million. The work generally consists of vegetation management in SMUD's Transmission Right of Way (ROW) in the UARP.

The demand for vegetation management contractors continues to increase with the dry weather and is expected to continue through spring. The optimal time for SMUD to perform vegetation management work in the UARP is winter for lower elevations and spring for the higher elevations. SMUD awarded contracts to three of the four proposers of the original solicitation and the contractors have all performed well. SMUD is requesting to increase the contract aggregate amount by \$5 million, from \$8 million to \$13 million, to ensure SMUD is able to retain qualified vegetation management contractors to execute UARP Reservoir Project Wildfire Risk Reduction work.

Wood Mackenzie Supply Market Intelligence indicates a 1.72% increase in vegetation management costs from November 2021 to October 2022 and all three vendors will continue to hold their pricing through the contract term justifying their rates as fair and reasonable.

Currently, the contract balance is approximately \$1,996,000.

Contract Actions	Amount	Cumulative Total	Description
Original Contract	\$8,000,000	\$8,000,000	
Pending Board Approval	\$5,000,000	\$13,000,000	Increase Total Aggregate Amount

Board Policy: (Number & Title)

Board-Staff Linkage BL-8, Delegation to the Chief Executive Officer and General Manager with Respect to Procurement; Strategic Direction SD-4, Reliability; Strategic Direction SD-6, Safety Leadership

Benefits

The additional \$5 million in funding will allow TSU-Tree Service Unlimited, Inc., Mountain F. Enterprises, Inc., and The Original Unlimited Tree Service Co. to continue to provide vegetation management services to SMUD in the UARP to mitigate wildfire risk.

Alternatives: Solicit new contracts for these services. By soliciting new contracts SMUD may miss optimal time to perform vegetation management work in the winter and spring.

Affected Parties: Line Assets, Supply Chain Services, and Contractor.

Coordination: Line Assets and Supply Chain Services.

\$13 million; Budgeted through March 2024 by Energy Delivery & Operation, Line Assets.

Cost/Budgeted:

Presenter:

Additional Links:		

SUBJECT Increase in Aggregate Contract Amount for UARP Reservoir Project Wildfire Risk Reduction

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

Casey Fallon, Director, Procurement, Warehouse & Fleet

RESOLUTION	ON NO.					

WHEREAS, Contract No. 4600001538 with TSU-Tree Service
Unlimited, Inc., Contract No. 4600001539 with Mountain F. Enterprises, Inc.,
and Contract No. 4600001540 with The Original Unlimited Tree Service Co.
(collectively, the Contracts) were awarded on a competitive basis in November
2021 to provide vegetation management services in SMUD's Transmission Right
of Way (ROW) in the Upper American River Project (UARP) for the period
November 23, 2021, to December 31, 2024, for an aggregate contract not-toexceed amount of \$8 million; and

WHEREAS, the demand for vegetation management contractors continues to increase with dry weather and is expected to continue through spring; and

WHEREAS, the optimal time for SMUD to perform vegetation management work in the **UARP** is winter for lower elevations and spring for higher elevations; and

WHEREAS, increasing the total aggregate amount for the

Contracts will allow SMUD to retain qualified vegetation management

contractors to complete UARP Reservoir Project Wildfire Risk Reduction work at
a fair and reasonable price; NOW, THEREFORE,

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

Section 1. That this Board hereby authorizes the Chief Executive Officer and General Manager, or his designee, to increase the aggregate



contract not-to-exceed amount for **Upper American River Project (UARP)**Reservoir Project Wildfire Risk Reduction services by \$5 million, from \$8 million to \$13 million, for Contract No. 4600001538 with **TSU-Tree Service Unlimited, Inc.**, Contract No. 4600001539 with **Mountain F. Enterprises, Inc.**, and Contract No. 4600001540 with **The Original Unlimited Tree Service Co.**(collectively, the **Contracts**).

Section 2. The Chief Executive Officer and General Manager, or his designee, is authorized to make future changes to the terms and conditions of the **Contracts** that, in his prudent judgment: (a) further the primary purpose of the **Contracts**; (b) are intended to provide a net benefit to SMUD; and (c) do not exceed the authorized contract amounts and applicable contingencies.

SSS No.	
HRS 22-005	

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Finance & Audit – 10/18/22
Board Meeting Date
October 20, 2022

	то						ТО						
1.	Casey Fallon						6.	Lora Anguay					
2.	Jaclyn Ketchum					7.	Scott 1	Ma	rtin				
3.	3. Laurie Rodriguez 8.												
4.	Markisha Webster					9.	Legal						
5.	Jennifer David	lso	n				10.	10. CEO & General Manager					
Consent Calendar X Yes No If no, schedule a dry run presentation.		Budgeted X Yes			No (If no, exp section.)	olain in Cos	t/Budgeted						
FROM (IPR) DEPARTMENT								MAIL STOP	EXT.	DATE SENT			
Jaclyn Ketchum People Services & St					rategi	es				B251	5761	09/23/2022	
NAI	NARRATIVE:												

Requested Action:

- Approve contract change to Contract No. 4500110473 with United Health Care Insurance Company ("United HealthCare") approving 2023 medical insurance premium rates and extending the contract by one year for the period January 1, 2023, through December 31, 2023. The total estimated cost for 2023, based on the current enrollment population, is \$37.4 million; and
- Approve contract change to Contract No. 4500043215 with Kaiser Permanente approving 2023 medical insurance premium rates and extending the contract by one year for the period January 1, 2023, through December 31, 2023. The total estimated cost for 2023, based on the current enrollment population, is \$27.8 million.

Summary:

United HealthCare presented SMUD with a renewal increase for the 2023 plan year of 4.9% for our active employee, pre-65 retiree and Medicare Advantage medical plans. Based on these rates and current enrollment, the total cost for 2023 medical benefit plans is projected at \$37.4 million.

Kaiser Permanente presented SMUD with renewal increases for the 2023 plan year of -5.1% for our active employee, pre-65 retiree and Medicare Advantage medical plans. Based on these rates and current enrollment, the total cost for 2023 medical benefit plans is projected at \$27.8 million.

These actions will allow SMUD to provide medical benefit plans for the year 2023 to approximately 9,500 employees, retirees, and eligible dependents enrolled in United HealthCare and Kaiser Permanente medical plans in a cost-effective manner.

Note: The estimated costs above will vary based on 2023 employee/retiree Open Enrollment selections and SMUD population.

Board Policy: (Number & Title)

Strategic Direction SD-3, Access to Credit Markets. SMUD staff negotiated best price and terms with medical providers in consideration of the long-term revenue requirements, debt, and financial risk to SMUD.

Strategic Direction SD-8, Employee Relations. Providing medical benefits to employees supports SMUD's goal of an inclusive workplace that engages and inspires employees to commit to SMUD's purpose, vision, and values.

Benefits: Provide quality medical benefits to eligible SMUD employees, retirees, and eligible dependents.

Cost/Budgeted: Assuming current enrollment, SMUD's share of cost is projected at \$57.4 million (after employee/retiree contributions).

Alternatives: Not accept the proposed rate increases; consider other alternatives to meet SMUD obligations.

Affected Parties: All eligible SMUD employees, retirees and eligible dependents participating in SMUD's medical benefit plans.

Additional Links:		

Approve 2023 Medical Premiums and Contract Extensions with
United HealthCare and Kaiser Permanente

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

Coordination: People Services & Strategies, Procurement, United HealthCare and Kaiser Permanente.

Laurie Rodriguez, Director, People Services & Strategies

SMUD-1516 1/16 Forms Management

Presenter:

Page 1

2023 Active Employees Medical Premium Rates

Active Employees	Basic				
Carrier	Employee Only	Employee + 1	Employee + Family		
Kaiser HMO – High Plan	\$712.11	\$1,424.22	\$2,136.33		
Kaiser HMO – Low Plan	\$674.53	\$1,349.06	\$2,023.59		
United Healthcare Signature Value HMO – High Plan	\$1,196.25	\$2,524.09	\$3,612.68		
United Healthcare Signature Value HMO – Low Plan	\$1,075.34	\$2,268.96	\$3,247.58		
United Healthcare Signature Alliance HMO – High Plan	\$1,111.76	\$2,345.81	\$3,357.51		
United Healthcare Signature Alliance HMO – Low Plan	\$999.39	\$2,108.70	\$3,018.19		
United Healthcare High Deductible Health Plan	\$954.14	\$2,013.23	\$2,881.49		
United Healthcare PPO Plan	\$1,844.55	\$3,892.01	\$5,570.55		

2023 Retiree Medical Premium Rates

Retiree		Basic	Medicare		
Carrier	Retiree Only	Retiree + 1	Retiree + Family	Retiree	Retiree + 1
Kaiser HMO	\$710.20	\$1,420.40	\$2,130.60	\$245.25	\$490.50
Kaiser Medicare Unassigned*	N/A	N/A	N/A	\$1,758.91	\$3,517.82
Kaiser Medicare Part A only**	N/A	N/A	N/A	\$1,348.26	\$2,696.52
United Healthcare Signature Value HMO	\$1,196.25	\$2,524.09	\$3,612.68	N/A	N/A
United Healthcare Signature Alliance HMO	\$1,111.76	\$2,345.81	\$3,357.51	N/A	N/A
United Healthcare PPO - In CA	\$1,844.55	\$3,892.01	\$5,570.55	N/A	N/A
United Healthcare PPO - Out Of CA	\$1,844.55	\$3,892.01	\$5,570.55	N/A	N/A
United Healthcare Medicare Advantage	N/A	N/A	N/A	\$428.88	\$857.76

RESOLUTION	NO.	
	.10.	

WHEREAS, by Resolution No. 18-07-03, adopted July 19, 2018, this
Board authorized a contract with United Health Care Insurance Company (United
HealthCare) to provide administration of SMUD's medical benefits for an initial threeyear period from January 1, 2019, to December 31, 2021, to SMUD employees, retirees
and eligible dependents; and

WHEREAS, by Resolution No. 19-10-06, adopted October 17, 2019, this Board approved 2020 premiums through December 31, 2020; and

WHEREAS, by Resolution No. 20-09-05, adopted September 17, 2020, this Board approved 2021 premiums through December 31, 2021; and

WHEREAS, by Resolution No. 21-10-06, adopted October 21, 2021, this Board authorized an extension to the **United HealthCare** contract to provide medical benefits for the year 2022 to SMUD employees, retirees and eligible dependents; and

WHEREAS, it would be in SMUD's best interest to extend the medical benefit contract with **United HealthCare** and approve the 2023 premiums through December 31, 2023, because of their distinctive services and relatively lower cost compared to other health plans; **NOW**, **THEREFORE**,

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

Section 1. The Chief Executive Officer and General Manager, or his designee, is authorized, on behalf of the SMUD, to approve 2023 medical insurance rates and extend Contract No. 4500110473 with United Health Care Insurance

Company by one year, for the period January 1, 2023, through December 31, 2023;

2023 cost estimated at \$37.4 million pursuant to the premiums set forth in **Attachment** ____ hereto and made a part hereof.

Section 2. The Chief Executive Officer and General Manager, or his designee, is authorized to make future changes to the terms and conditions of the contract that, in his prudent judgment: (a) further the primary purpose of the contract; (b) are intended to provide a net benefit to SMUD; and (c) do not exceed the authorized contract amounts and applicable contingencies.

SSS No.	
HRS 22-005	

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Finance & Audit – 10/18/22
Board Meeting Date
October 20, 2022

то					ТО								
1.	Casey Fallon						6.	Lora Anguay					
2.	2. Jaclyn Ketchum					7.	Scott Martin						
3.	3. Laurie Rodriguez					8.							
4.	4. Markisha Webster				9.	Legal							
5.	5. Jennifer Davidson				10.	CEO & General Manager							
Cor	sent Calendar X Yes No If no, schedule a dry run presentation.			Bud	geted	Х	Yes		No (If no, explain in Cost/Budgeted section.)				
FROM (IPR) DEPARTMENT			•					MAIL STOP	EXT.	DATE SENT			
Jaclyn Ketchum People Services & St				rategi	rategies B251			5761	09/23/2022				
NARRATIVE:													

Requested Action:

- Approve contract change to Contract No. 4500110473 with United Health Care Insurance Company ("United HealthCare") approving 2023 medical insurance premium rates and extending the contract by one year for the period January 1, 2023, through December 31, 2023. The total estimated cost for 2023, based on the current enrollment population, is \$37.4 million; and
- Approve contract change to Contract No. 4500043215 with Kaiser Permanente approving 2023 medical insurance premium rates and extending the contract by one year for the period January 1, 2023, through December 31, 2023. The total estimated cost for 2023, based on the current enrollment population, is \$27.8 million.

Summary:

United HealthCare presented SMUD with a renewal increase for the 2023 plan year of 4.9% for our active employee, pre-65 retiree and Medicare Advantage medical plans. Based on these rates and current enrollment, the total cost for 2023 medical benefit plans is projected at \$37.4 million.

Kaiser Permanente presented SMUD with renewal increases for the 2023 plan year of -5.1% for our active employee, pre-65 retiree and Medicare Advantage medical plans. Based on these rates and current enrollment, the total cost for 2023 medical benefit plans is projected at \$27.8 million.

These actions will allow SMUD to provide medical benefit plans for the year 2023 to approximately 9,500 employees, retirees, and eligible dependents enrolled in United HealthCare and Kaiser Permanente medical plans in a cost-effective manner.

Note: The estimated costs above will vary based on 2023 employee/retiree Open Enrollment selections and SMUD population.

Board Policy: (Number & Title)

Strategic Direction SD-3, Access to Credit Markets. SMUD staff negotiated best price and terms with medical providers in consideration of the long-term revenue requirements, debt, and financial risk to SMUD.

Strategic Direction SD-8, Employee Relations. Providing medical benefits to employees supports SMUD's goal of an inclusive workplace that engages and inspires employees to commit to SMUD's purpose, vision, and values.

Benefits: Provide quality medical benefits to eligible SMUD employees, retirees, and eligible dependents.

Cost/Budgeted: Assuming current enrollment, SMUD's share of cost is projected at \$57.4 million (after employee/retiree contributions).

Alternatives: Not accept the proposed rate increases; consider other alternatives to meet SMUD obligations.

Affected Parties: All eligible SMUD employees, retirees and eligible dependents participating in SMUD's medical benefit plans.

Additional Links:		

SUBJECT

Approve 2023 Medical Premiums and Contract Extensions with
United HealthCare and Kaiser Permanente

ITEM NO. (FOR LEGAL USE ONLY)

15b

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

Coordination: People Services & Strategies, Procurement, United HealthCare and Kaiser Permanente.

Laurie Rodriguez, Director, People Services & Strategies

SMUD-1516 1/16 Forms Management

Presenter:

Page 1

2023 Active Employees Medical Premium Rates

Active Employees	Basic					
Carrier	Employee Only	Employee + 1	Employee + Family			
Kaiser HMO – High Plan	\$712.11	\$1,424.22	\$2,136.33			
Kaiser HMO – Low Plan	\$674.53	\$1,349.06	\$2,023.59			
United Healthcare Signature Value HMO – High Plan	\$1,196.25	\$2,524.09	\$3,612.68			
United Healthcare Signature Value HMO – Low Plan	\$1,075.34	\$2,268.96	\$3,247.58			
United Healthcare Signature Alliance HMO – High Plan	\$1,111.76	\$2,345.81	\$3,357.51			
United Healthcare Signature Alliance HMO – Low Plan	\$999.39	\$2,108.70	\$3,018.19			
United Healthcare High Deductible Health Plan	\$954.14	\$2,013.23	\$2,881.49			
United Healthcare PPO Plan	\$1,844.55	\$3,892.01	\$5,570.55			

2023 Retiree Medical Premium Rates

Retiree		Basic	Medicare		
Carrier	Retiree Only	Retiree + 1	Retiree + Family	Retiree	Retiree + 1
Kaiser HMO	\$710.20	\$1,420.40	\$2,130.60	\$245.25	\$490.50
Kaiser Medicare Unassigned*	N/A	N/A	N/A	\$1,758.91	\$3,517.82
Kaiser Medicare Part A only**	N/A	N/A	N/A	\$1,348.26	\$2,696.52
United Healthcare Signature Value HMO	\$1,196.25	\$2,524.09	\$3,612.68	N/A	N/A
United Healthcare Signature Alliance HMO	\$1,111.76	\$2,345.81	\$3,357.51	N/A	N/A
United Healthcare PPO - In CA	\$1,844.55	\$3,892.01	\$5,570.55	N/A	N/A
United Healthcare PPO - Out Of CA	\$1,844.55	\$3,892.01	\$5,570.55	N/A	N/A
United Healthcare Medicare Advantage	N/A	N/A	N/A	\$428.88	\$857.76

RESOLUTION NO.	

WHEREAS, by Resolution No. 11-09-03, adopted September 1, 2011, this Board authorized a contract with Kaiser Permanente (Kaiser) to provide medical benefits for the year 2012 to SMUD employees, retirees and eligible dependents; and

WHEREAS, by Resolution No. 12-09-03, adopted September 6, 2012, this Board authorized an extension of the **Kaiser** contract to provide medical benefits for the year 2013 to SMUD employees, retirees and eligible dependents; and

WHEREAS, by Resolution No. 13-09-04, adopted September 5, 2013, this Board authorized an extension of the **Kaiser** contract to provide medical benefits for the year 2014 to SMUD employees, retirees and eligible dependents; and

WHEREAS, by Resolution No. 14-08-09, adopted August 21, 2014, this Board authorized an extension of the **Kaiser** contract to provide medical benefits for the year 2015 to SMUD employees, retirees and eligible dependents; and

WHEREAS, by Resolution No. 15-09-04, adopted September 3, 2015, this Board authorized an extension of the **Kaiser** contract to provide medical benefits for the year 2016 to SMUD employees, retirees and eligible dependents; and

WHEREAS, by Resolution No. 16-10-03, adopted October 6, 2016, this
Board authorized an extension of the **Kaiser** contract to provide medical benefits for the
year 2017 to SMUD employees, retirees and eligible dependents; and

WHEREAS, by Resolution No. 17-09-04, adopted September 21, 2017, this Board authorized an extension of the **Kaiser** contract to provide medical benefits for the year 2018 to SMUD employees, retirees and eligible dependents; and

WHEREAS, by Resolution No. 18-07-04, adopted July 19, 2018, this

Board authorized an extension of the **Kaiser** contract to provide medical benefits for the year 2019 to SMUD employees, retirees and eligible dependents; and

WHEREAS, by Resolution No. 19-10-07, adopted October 17, 2019, this Board authorized an extension of the **Kaiser** contract to provide medical benefits for the year 2020 to SMUD employees, retirees and eligible dependents; and

WHEREAS, by Resolution No. 20-09-06, adopted September 17, 2020, this Board authorized an extension of the **Kaiser** contract to provide medical benefits for the year 2021 to SMUD employees, retirees and eligible dependents; and

WHEREAS, by Resolution No. 21-10-07, adopted October 21, 2021, this Board authorized an extension of the **Kaiser** contract to provide medical benefits for the year 2022 to SMUD employees, retirees and eligible dependents; and

WHEREAS, it would be in SMUD's best interest to extend the medical benefit contract with **Kaiser** and approve the 2023 premiums through December 31, 2023, because of their distinctive services and relatively lower cost compared to other health plans; **NOW**, **THEREFORE**,

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

Section 1. The Chief Executive Officer and General Manager, or his designee, is authorized, on behalf of the SMUD, to approve 2023 medical insurance rates and extend Contract No. 4500043215 with **Kaiser Permanente** by one year, for the period January 1, 2023, through December 31, 2023; 2023 cost estimated at \$27.8 million pursuant to the premiums set forth in **Attachment** hereto and made a part hereof.

DRAFT

Section 2. The Chief Executive Officer and General Manager, or his designee, is authorized to make future changes to the terms and conditions of the contract that, in his prudent judgment: (a) further the primary purpose of the contract; (b) are intended to provide a net benefit to SMUD; and (c) do not exceed the authorized contract amounts and applicable contingencies.

SSS No. LEG 202	22-0135

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
ERCS – 10/19/22
Board Meeting Date
October 20, 2022

				ТО							ТО			
1. Steve Lins					6.									
2.	Frankie McDer	mott				7.								
3.	Brandy Bolden		8.											
4.	Lora Anguay					9.	Lega	ıl						
5.	Suresh Kotha					10.	CEC	8	Genera	al I	Manager			
Cor	nsent Calendar	X Yes		No If no, sched	lule a dry run presentation.	Bud	geted	X	Yes		No (If no, exp section.)	olain in Cos	t/Budgeted	
	OM (IPR)				DEPARTMENT					•	MAIL STOP	EXT.	DATE SE	
	drew Meditz RRATIVE:				Legal Department						B406	6124	09/23/2	<u>22</u>
	Summary: Board Policy: (Number & Title)	amended PURPA to require Board consideration of two new federal standards. Sections 40104(a)(1) and 40431(a) of the IIJA adds Sections 111(d)(20) and 111(d)(21) to PURPA. As part of the PURPA administrative process, SMUD must commence consideration of the standards by November 15, 2022, and hold a future public hearing to consider each of the proposed standards. The Board is not required to adopt the standards but is required to consider and make findings on or before November 15, 2023.												
	Benefits:				-11, Public Power Busi PA and Board consider				standar	ds				
	Cost/Budgeted:	N/A												
	Alternatives:	None	None											
A	affected Parties:	N/A												
	Coordination:	Legal,	De	mand Respor	nse and Electric Vehicle	e prog	gram s	taff,	Rates/I	Prio	eing Dept.			
	Presenter:	Steve 1	teve Lins, Deputy General Counsel and Director of Government Affairs											

Additional Links:		

SUBJECT

ITEM NO. (FOR LEGAL USE ONLY)

RESOL	LUTION	NO.					

WHEREAS, the Infrastructure Investment and Jobs Act of 2021 (IIJA) was signed into law on November 15, 2021; and

WHEREAS, the IIJA adds Sections 111(d)(20) and 111(d)(21) to the Public Utility Regulatory Policies Act of 1978 (PURPA), which require SMUD to consider two new proposed federal regulatory standards relating to Demand-Response Practices and Electric Vehicle Charging Programs; NOW, THEREFORE,

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

Section 1. SMUD hereby commences consideration of the two new federal regulatory standards set forth in Sections 111(d)(20) and 111(d)(21) of the Public Utility Regulatory Policies Act of 1978 (PURPA).

SSS No.	
E,S RES 22-04	

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
ERCS – 10/19/22
Board Meeting Date
October 20, 2022

					п										
ТО									ТО						
1.	Claire Rogers	Claire Rogers					6.	Suresh Kotha							
2.	Frankie McDe	Frankie McDermott				7.	Lora	An	guay						
3.	Jennifer David	lson					8.								
4.	Brandy Bolder	n					9.	Legal							
5.	Farres Everly						10.	CEO	&	Gener	al I	Manager			
Cor	nsent Calendar	X Ye	s		No If no, schedu	ule a dry run presentation.	Bud	geted	Х	Yes		No (If no, exp section.)	olain in Cos	t/Budgeted	
FRC	DM (IPR)		L			DEPARTMENT	1			1	<u> </u>	MAIL STOP	EXT.	DATE SENT	
Elli	ias van Ekelenbı	ırg				Env, Safety, and Rea	ıl Esta	te Serv	ice	S		B209	7475	9/26/2022	
	RRATIVE:														
Re	quested Action:	: Acc	cept	the	e monitoring r	report for Strategic D	irectio	on SD-7	7, I	Enviro	nm	ental Leade	rship.		
	Summary	Dir	ectio	n i	SD-7, Enviror	eting is to facilitate a commental Leadership (Svironmental programs	SD-7).	The pr	ese	entation	ı wi	ill briefly sur	nmarize S	SMUD's	
	Board Policy		Strategic Direction SD-7, Environmental Leadership												
	(Number & Title, Benefits:	: Cla	Clarification of environmental leadership, as defined in SD-7, to better guide SMUD staff's interpretation and actions to fulfill this directive.												
	Cost/Budgeted:	: N/A	Α												
	Alternatives	: N/A	Α												
A	affected Parties:	: SM	UD	cu	stomers and e	employees									
	Coordination				vironmental S e Communitio	Services, Resource Places	anning	g, and E	ne	rgy Str	ateg	gy, Resource	, & Deve	lopment,	
	Presenter	: Elli	as v	an	Ekelenburg, I	Director, Environmen	tal. Sa	fetv &	Re	al Esta	te S	Services			

SUBJECT

Board Monitoring: SD-7, Environmental Leadership

ITEM NO. (FOR LEGAL USE ONLY)

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

SMUD-1516 1/16 Forms Management Page 0

SACRAMENTO MUNICIPAL UTILITY DISTRICT

OFFICE MEMORANDUM

TO: Board of Directors **DATE:** October 5, 2022

FROM: Claire Rogers @2 10/5/22

SUBJECT: Audit Report No. 28007431

Board Monitoring Report; SD-7: Environmental Leadership

Audit and Quality Services (AQS) received the SD-7 *Environmental Leadership* 2021 Annual Board Monitoring Report and performed the following:

- A review of the information presented in the report to determine the possible existence of material misstatements;
- Interviews with report contributors and verification of the methodology used to prepare the monitoring report; and
- Validation of the reasonableness of a selection of the report's statements and assertions.

During the review, nothing came to AQS' attention that would suggest the SD Board Monitoring report did not fairly represent the source data available at the time of the review.

CC:

Paul Lau

Board Monitoring Report 2021 SD-7 Environmental Leadership



1. Background

Strategic Direction 7 (SD-7), Environmental Leadership states that:

Environmental leadership is a core value of SMUD. In achieving this directive, SMUD will:

- a. Conduct its business affairs and operations in a sustainable manner by continuously improving pollution prevention, minimizing environmental impacts, conserving resources, and promoting equity within SMUD's diverse communities.
- b. Provide leadership and innovation to improve air quality and reduce greenhouse gas emissions.
- c. Promote the efficient use of energy by our customers.
- d. Advance the electrification of vehicles, buildings and equipment.
- e. Attract and build partnerships with customers, communities, policy makers, the private sector, and other stakeholders.

2. Executive Summary

SMUD's focus on environmental leadership is clearly evident in our 2030 Clean Energy Vision and Zero Carbon Plan, but it also includes transparent reporting of GHG emissions, natural resource stewardship and our concerted efforts to make all of our communities more sustainable. This report highlights some of the accomplishments SMUD achieved in 2021 to showcase our commitment to environmental leadership.

We are compliant with the five tenets of SD-7 and our successes include making CDP's (formerly known as the Carbon Disclosure Project) "A- List" for tackling climate change and starting our Land Acknowledgement Statement. A number of our staff and programs received distinguished recognition too, and our efforts are highlighted in the following Appendices: Appendix A (Examples of SMUD Efforts Supporting SD-7), Appendix B (2015-2020 SMUD GHG Emissions Trends), Appendix C (Sustainable Communities), and Appendix D (Acronyms).

3. Additional Supporting Information

2030 Clean Energy Vision and Zero Carbon Plan

For decades, SMUD has been a leader in clean energy and carbon reduction. SMUD's goal to eliminate carbon emissions from our power supply is more ambitious than the already aggressive state mandates and is ahead of virtually all other utilities in the United States. Our 2030 Zero Carbon Plan is a flexible road map to achieve our zero carbon goal while ensuring all customers and communities we serve reap the benefits of decarbonization. Zero carbon emissions bring benefits not only globally, but also locally with reduced emissions GHG emissions, improving local air quality, job creation opportunities, and leadership move away from the use of fossil fuels.

Greenhouse Gas (GHG) Emissions

SMUD is a leader in addressing global climate change and is an active member of The Climate Registry (TCR). SMUD reports its third-party verified GHG emissions to the California Air Resources Board (CARB), TCR and CDP. Staff also reports sulfur hexafluoride (SF₆) emissions and aids with reporting GHG emissions from the Joint Power Authorities (JPAs) to the US Environmental Protection Agency (EPA).

For 2021, GHG emissions were approximately 2.425 million metric tons carbon dioxide equivalent (CO₂e)^[1]. This is an increase of just over 500 thousand metric tons from 2020 emissions; a trend going back to 2015 (which was an especially severe drought year) can be found in Appendix B. Fluctuations in total emissions year-to-year are primarily attributable to hydroelectricity production and natural gas contract rates. Specifically for 2021, amidst historic drought conditions, there was a significant increase in the amount of unspecified power purchased, due to a nearly 900 GWh shortfall in total hydro generation from 2020 to 2021. Another significant driver of emissions was market purchases. In the future, as we purchase greater quantities of lower emissions-intensity power, we can expect those emissions to decrease. Lower hydroelectricity generation leads to higher utilization of SMUD's thermal power plants and increased purchased power leading to higher emissions. Over the past several years, SMUD's efforts to procure power from zero and low-emission sources (e.g., hydro, wind and solar) have resulted in a lower carbon footprint.

A breakdown of emissions by JPAs, and power purchases, with comparisons between 2020 and 2021 can be found in Appendix B.

SMUD uses or supplements the use of biofuels at its thermal power plants to reduce our carbon compliance obligation and we generated approximately 163 GWh of power from biofuels in 2021. Emissions from biofuels are typically considered "carbon-neutral" under several GHG reporting protocols including California's Cap-and-Trade Program."

CDP

SMUD was recognized for our leadership in corporate sustainability by global environmental non-profit CDP, attaining leadership level for 2 straight years and securing an A- on our 2021 disclosure. SMUD was recognized for its actions to cut greenhouse gas emissions, mitigate climate risks, and develop the low-carbon economy based on reported data. CDP's annual environmental disclosure and scoring process is widely recognized as the gold standard of corporate environmental transparency. Through significant demonstrable action on climate, SMUD is leading on environmental ambition, action, and transparency worldwide.

^[1] The 2020 GHG emissions value represents emissions associated with delivering power to SMUD customers and does not include emissions associated with wholesales into the market. The 2020 emissions from wholesale power are approximately 0.327 million metric tons of CO2.

Notices of Violation (NOVs)

SMUD and its joint powers authority (JPA) contractor, EthosEnergy, strive to be good corporate citizens and responsible environmental stewards that comply with all local, state, and federal rules and regulations. In 2021, we received no NOVs or similar citations that include civil and/or criminal penalties.

Sustainable Communities

To promote environmental equity as well as inclusive economic and community development, SMUD continues to focus community partnerships, programs, and neighborhood outreach activities in vulnerable and under-resourced communities through its Sustainable Communities program. SMUD has invested over \$11.4 million into this initiative, which takes a boots-on-the-ground approach to tackle issues plaguing our community, while creating an inclusive, clean-energy economy for all communities, with a special emphasis on those in historically under-resourced areas. We rely on grassroots community partnerships and projects to ensure better social well-being, environmental, economic, and mobility outcomes. The goal is to ensure access to an inclusive clean energy future in the Sacramento Region regardless of zip code or socio-economic status by focusing on equitable access to mobility, a prosperous economy, a healthy environment, and social well-being as seen in Appendix C.

Environmental Justice and California Environmental Quality Act (CEQA) Process

SMUD now considers environmental justice (EJ) impacts as part of our CEQA review process. The EJ chapter identifies current environmental burdens and relevant socioeconomic characteristics using analysis from elsewhere in the CEQA document and from data sets within the Sustainable Communities Resource Priorities Map including CalEnviroScreen. A proposed project's potential to worsen existing adverse environmental and public health conditions is evaluated to determine if it would negatively impact the local community. If so, community enhancements are proposed to lessen any negative impacts as part of our CEQA process. Each of our CEQA documents that started in 2021 included an EJ section and none of these projects were found to worsen existing adverse environmental and public health conditions.

Sacramento Tree Foundation (STF) Sacramento Shade Program

In 2021, the STF distributed 11,628 trees as part of its Sacramento Shade program serving 3,567 customers (1,551 or 43% in disadvantaged communities). A total of 590 of the trees were planted at public sites such as schools and parks, and 3,454 (30%) were planted in under-canopied communities to help resolve regional tree canopy inequity. The total carbon (stored in biomass and avoided) for these trees is estimated at 25,770.82 metric tons. To better understand issues related to tree planting and care, STF NeighborWoods organizers actively engage residents to help resolve tree planting impediments.

Land Acknowledgment Statement

The SMUD Station H Project mitigation efforts highlighted new opportunity areas including meaningful consultation with local Tribes. SMUD staff recognized that it was important to build deeper relationships with local Tribes and take steps beyond what is

required by CEQA and AB52. Recommendations to prepare a Land Acknowledgement Statement came both from SMUD's Board of Directors and other local Native Americans. In 2021, SMUD staff started outlining the process for Native American culture and issues education, began drafting a Land Acknowledgment Statement as written affirmation of external relationship-building with local Native nations and their citizens, and identifying pathways for ongoing education and reconciliation.

Wildfire Mitigation Plan (WMP)

SMUD's goal is to provide safe, reliable, environmentally sustainable, and economical electric service to its communities. SMUD constructs, maintains, and operates our electrical lines and equipment to minimize any risk of catastrophic wildfire. Our updated 2021 WMP describes the range of activities we are doing to mitigate the threat of power-line ignited wildfires, including various programs, policies and procedures. The WMP meets or exceeds the requirements of Public Utility Commission (PUC) section 8387 for publicly owned electric utilities and customers can find additional information at Wildfire Safety.

Workflow Integration Program (WIP)

The WIP processed 430 planned overhead and underground electrical infrastructure projects in 2021, which is a 39% increase from the number of projects review in 2020. Avoidance and minimization measures (AMMs) were prescribed for 61 projects to reduce impacts on sensitive biological resources and the risk of NOVs. Field crews were given information on AMMs in their job packets, including descriptions of resources they could encounter, pre-construction survey requirements and the potential inclusion of biological and/or cultural monitors.

Electric lawn mowers for customers; equipment electrification

SMUD partnered with the Sacramento Metropolitan Air Quality Management District (SMAQMD) to launch the Electric Lawn Mower Pilot Program, which provided rebates to help our residential customers make the transition from gas-powered lawn mowers to zero-emission electric ones. The pilot ran from October – November 2021 and 150 customers participated, of which 42 were EAPR customers. Rebates totaled \$26,575, with SMUD providing \$4,200 (\$100 for each EAPR customer) and SMAQMD providing the rest.

Internally, SMUD has been replacing gas/diesel-powered equipment with equivalent electric/battery-powered tools where they are available from the market, including drills, cable cutters, pole saws and top handle chainsaws, hedge trimmers and skill saws. The Facilities team has been researching the use of battery- and electric-powered landscaping equipment and working with a local vendor to evaluate future uses of a battery-powered commercial lawn mower. This year, an all-electric four-wheel drive tractor was purchased for Facilities' use.

Financial Successes

Successful Soil Reuse- In 2021, SMUD diverted 30,254 cubic yards of soil from being disposed at various landfills for an approximate savings of \$2.8 million. All soil was

tested and verified to meet acceptable reuse criteria at either SMUD's North City Landfill or the Downtown Railyards Venture property. SMUD's new soil reuse program benefits are twofold: 1) avoiding clean soil purchases and soil disposal costs, while 2) avoiding trucking emissions associated with the transportation of these soils throughout the region and state.

North City CalReycle Grant Awarded- Again in 2021, SMUD successfully secured a second \$750,000 CalRecycle grant. This grant will be used to significantly offset the construction cost of the North City Landfill Cap (estimated to be under \$5 million).

4. Challenges

The COVID-19 pandemic changed how we conduct business as our company and stakeholders pivoted to mostly remote workplaces. SMUD continues to experience challenges with federal, state, and local regulators as rules and regulations evolve, and some agencies are slow to issue permits due to a lack of resources. We expect delays to continue as many long-term agency employees retire and less experienced staff are left to manage changing policies. Additionally, we are actively supporting electric vehicle (EV) integration in our fleet (12.4% electric) as well as our region, which is challenging due to supply chain constraints (including chip availability) and limited availability of electric heavy-duty trucks and construction equipment.

We continue to expend considerable resources on numerous, complicated environmental remediation projects (e.g., the Former Community Linen site, 59th Street Reuse, Thornton Substation, and the North City Landfill Cap Design and Construction). Some of these efforts were additionally challenging due to regulatory changes made at the national level that do not consider California-specific factors.

We conduct monthly eagle injury and mortality monitoring at the Solano Wind Project in compliance with our 2019 Incidental Eagle Take Permit. With ten golden eagle fatalities, we are approaching the 12 eagle incidents authorized under the permit. Operational modifications, including standing curtailment of 19 wind turbines were implemented during Q4 2021. We have implemented land management actions to reduce the attractiveness of the site to eagles. We are coordinating with the U.S. Fish and Wildlife Service on a revised Eagle Conservation Plan and requesting a permit amendment that would increase the amount of take authorized under the Permit. We are also applying for a new 30-year permit that would be effective after the current permit expires in 2024.

5. Recommendation

It is recommended that the Board accept the Monitoring Report for SD-7, Environmental Leadership.

6. Appendices

- A. Examples of SMUD Efforts Supporting SD-7
- B. 2015-2020 SMUD Greenhouse Gas Emissions Trends
- C. Sustainable Communities
- D. Glossary of Acronyms

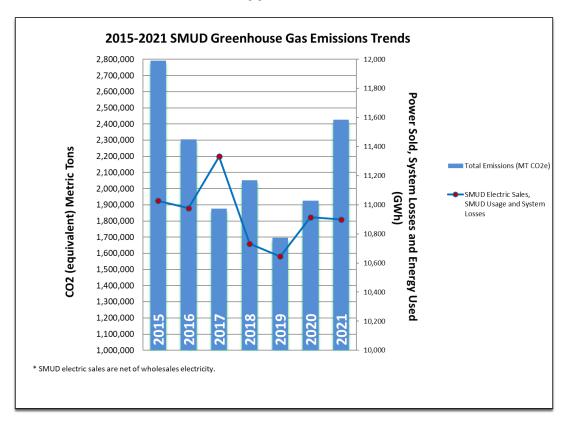
Appendix A

Examples of SMUD Efforts Supporting Strategic Direction 7 (SD-7)

Examples of SMUD	Efforts Supporting Strategic Direction 7 (SD-7)
SD-7 Requirement	Supporting Effort
A) SMUD will conduct its business affairs and operations in a sustainable manner by continuously improving pollution prevention, minimizing environmental impacts, conserving resources, and promoting equity within SMUD's diverse communities.	SMUD exceeds state and federal requirements for public outreach for both the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA); Station E; 59th Street; Former Community Linen; North City landfill closure; Station H; Solano 4; Workflow Integration; Wildfire Mitigation Plan; Partnership with Sacramento Tree Foundation (11,628 trees distributed to customers in 2021 with 43% in disadvantaged communities); SMUD Green Team; Environmentally Sustainable Purchasing Program (ESPP); Sustainable Communities; Pollinator Support; SD-5 (Customer Relations); SD-13 (Economic Development); SD-15 (Outreach and Communication); CA Clean Air Day; Waste diversion rate of 77.11%; Asset recovery program for used oil, e-waste, transformers, etc.
B) SMUD will provide leadership and innovation to improve air quality and reduce greenhouse gas emissions.	2030 Clean Energy Vision and Zero Carbon Plan; Third-party verified annual GHG reporting to the U.S. Environmental Protection Agency (EPA), California Air Resources Board (CARB), The Climate Registry (TCR) and CDP; GHG reduction efforts; Hydrogenation- Derived Renewable Diesel (HDRD); SF ₆ database pilot; SD-9 (Resource Planning); Integrated Resource Plan (IRP); SD-10 (Research and Development); Solano 4; ESPP; CA Clean Air Day.
C) SMUD will promote the efficient use of energy by our customers.	Greenergy®; SolarShares®; Energy Assistance Program Rate (EAPR); home electricity reports; SMUD app; Incentives, rebates, and loans; web tools; educational opportunities for customers; SD-5 (Customer Relations); SD-13 (Economic Development); SD-15 (Outreach and Communication); Sustainable Communities program; SMUD MoSAC.
D) SMUD will advance the electrification of vehicles, buildings, and equipment	California Mobility Center; Fleet Electrification; Building Electrification; Sustainable Communities program; Lawn equipment electrification; Incentives, rebates, and loans.
E) SMUD will attract and build partnerships with customers, communities, policy makers, the private sector, and other stakeholders.	226 Sustainable Communities partnerships; Land Acknowledgement Statement, Electric Power Research Institute (EPRI); Electric Utility Industry Sustainable Supply Chain Alliance (EUISSCA); Partnership with Sacramento Tree Foundation (11,628

trees distributed to customers in 2021 with 43% in
disadvantaged communities).

Appendix B¹



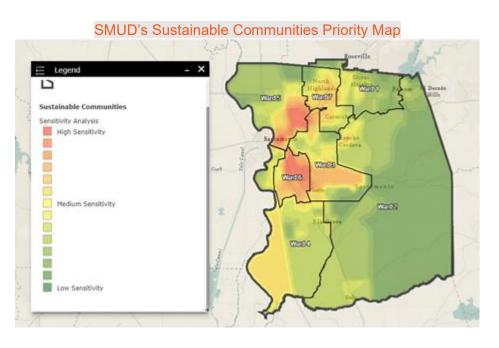
Thermal Power Plant Greenhouse Gas Emissions								
Source	2020 MMT CO2e	2021 MMT CO2e	Percent Change					
Thermal Emissions less any Cogen Sales								
СРР	1,337	1,473	10%					
SCA	291	299	3%					
SPA	248	282	14%					
CVFA	105	111	6%					
McClellan	2.72*	2.75	1%					
Power Purchased and System Losses	269	495	84%					
Net of Unspecified Market Purchases and Sales	-327	-238	-27%					
Total	1,926	2,425	26%					

^{*}This 2020 value for McClellan also includes a nominal amount of emissions (2.06 MMT) from the Ivanpah solar facility; we are no longer accounting for it in this way starting 2021, since it is already included in the Power Purchased category.

 $^{^{\}rm 1}$ Unlike SD-9, the emissions data in SD-7 is not normalized.

Appendix CSustainable Communities Deliverables and Accomplishments To-Date

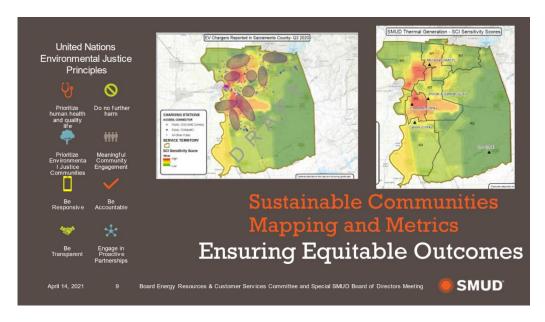




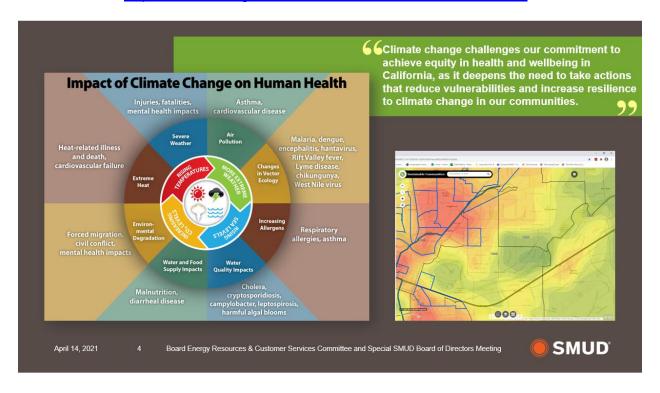
To deploy comprehensive resources for our communities most in need, we must align our region's investments toward the goal of creating and supporting healthy, vibrant, and economically sustainable neighborhoods. Our Sustainable Communities Resource Priorities Map is a result of SMUD's data-driven approach to geographically identify areas of inequity within the Sacramento region that highlight where future resources may be optimally utilized. This interactive map helps analyze current data to identify under-resourced and distressed areas in our region, driven by lack of community development, income, housing,

employment opportunities, transportation, medical treatment, environmental sustainability mitigation, nutrition, education, and clean environment.

https://sdgs.un.org/goals



https://www.cdc.gov/climateandhealth/effects/default.htm



Appendix D

List of Acronyms

CARB California Air Resources Board
CDP Carbon Disclosure Project (formerly)
CEQA California Environmental Quality Act

CO₂ Carbon Dioxide

CO2e Carbon Dioxide Equivalent

EAPR Energy Assistance Program Rate

EJ Environmental Justice

EPA Environmental Protection Agency **EPRI** Electric Power Research Institute

ESPP Environmentally Sustainable Purchasing Program

EUISSCA Electric Utility Industry Sustainable Supply Chain Alliance

EVs Electric Vehicles
GHG Greenhouse Gas
GWh Gigawatt Hour

HDRD Hydrogenation Derived Renewable Diesel

IRP Integrated Resource Plan
JPA Joint Power Authority

MT Metric Tons

NEPA National Environmental Policy Act

NOV Notice of Violation

PUC Public Utility Commission

SD Strategic Direction

SEPA Smart Electric Power Alliance

SF₆ Sulfur Hexafluoride

SMUD Sacramento Municipal Utility District

STF Sacramento Tree Foundation

TCR The Climate Registry

WIP Workflow Integration Program

WMP Wildfire Mitigation Plan



RESOL	.UTION	NO.					

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

This Board accepts the monitoring report for Strategic Direction SD-7,
Environmental Leadership, substantially in the form set forth in Attachment
hereto and made a part hereof.

SSS No.	
RS 22-006	

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
ERCS - 10/19/22
Board Meeting Date
October 20, 2022

				TO							ТО		
	T												
1.	Bryan Swann					6.	Lora Anguay						
2.	Claire Rogers					7.	Sure	sh K	otha				
3.	Scott Martin	Scott Martin			8.								
4.	Frankie McDen	mott				9.	Lega	ıl					
5.	Brandy Bolden					10.	CEC	&	Genera	al I	Manager		
Cor	nsent Calendar	X Yes		No If no, schedule a dry run	presentation.	Bud	geted	Х	Yes		No (If no, exp section.)	olain in Cos	st/Budgeted
	DM (IPR)		DEPARTMENT			1			I		MAIL STOP	EXT.	DATE SENT
	a Elsevier RRATIVE:			Resource	e Strategy						B205	5056	09/21/2022
	quested Action:	Accept	th	e monitoring report for S	Strategic Di	rectio	on SD-	9, F	Resourc	ce l	Planning.		
	Summary:	Annua	1 S	D-9 Resource Planning	Monitoring I	Repor	t for a	chie	vement	s it	n 2021.		
	Board Policy: (Number & Title)								e gas reduction, nsportation				
	Benefits:		Provide a status report of 2021 achievements to the Board members on meeting our core resource planning objectives contained in Strategic Direction SD-9, Resource Planning.										
	Cost/Budgeted:	N/A											
	Alternatives: N/A												
A	ffected Parties:	Comm	Customer and Community Services, Government Affairs, Customer Strategy, Enterprise Strategy, Communication, Marketing and Community Relations, Treasury Operations & Risk Management, Legal, Reliability Compliance, Energy Supply, Sustainable Communities, Customer Experience Delivery										
	Coordination:	Resour	ce	Strategy									
	Presenter:	Bryan	Sw	Bryan Swann, Director, Resource Strategy									

Additional Links:		

SUBJECT

Annual SD-9 Resource Planning Monitoring Report

ITEM NO. (FOR LEGAL USE ONLY)

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

SMUD-1516 1/16 Forms Management Page 0

SACRAMENTO MUNICIPAL UTILITY DISTRICT

OFFICE MEMORANDUM

TO: Board of Directors **DATE:** October 5, 2022

FROM: Claire Rogers @2 10/5/22

SUBJECT: Audit Report No. 28007432

Board Monitoring Report; SD-9: Resource Planning

Audit and Quality Services (AQS) received the SD-9 Resource Planning 2022 Annual Board Monitoring Report and performed the following:

- A review of the information presented in the report to determine the possible existence of material misstatements;
- Interviews with report contributors and verification of the methodology used to prepare the monitoring report; and
- Validation of the reasonableness of a selection of the report's statements and assertions.

During the review, nothing came to AQS' attention that would suggest the SD Board Monitoring report did not fairly represent the source data available at the time of the review.

CC:

Paul Lau

Board Monitoring Report 2022 SD-9, Resource Planning



1. Background

It is a core value of SMUD to provide its customers and community with a sustainable power supply using an integrated resource planning process.

A sustainable power supply is one that reduces SMUD's greenhouse gas (GHG) emissions to serve retail customer load to zero by 2030. Zero GHG emissions will be achieved through investments in energy efficiency, clean distributed energy resources, renewables portfolio standard (RPS) eligible renewables, energy storage, large hydroelectric generation, clean and emissions free fuels, and new technologies and business models. Additionally, SMUD will continue pursuing GHG savings through vehicle, building and equipment electrification. SMUD shall assure reliability of the system, minimize environmental impacts on land, habitat, water and air quality, and maintain competitive rates relative to other California electricity providers.

To guide SMUD in its resource evaluation and investment, the Board sets the following energy supply goal:

Year	Greenhouse Gas Emissions (metric tons)			
2020	2,318,000			
2030 - beyond	0			

In keeping with this policy, SMUD shall also achieve the following:

- a) Pursue energy efficiency and electrification to reduce carbon emissions by 365,000 metric tons from buildings and 1,000,000 metric tons from transportation in 2030 (the equivalent of 112,000 single family homes and 288,000 passenger vehicles electrified).
- b) Procure renewable resources to meet or exceed the state's mandate of 33% of SMUD's retail sales by 2020, 44% by 2024, 52% by 2027, and 60% of its retail sales by 2030 and thereafter, excluding additional renewable energy acquired for certain customer programs.
- c) In meeting GHG reduction goals, SMUD shall:
 - 1. Emphasize local and regional benefits.
 - 2. Improve equity for under-served communities.
- d) Explore, develop, and demonstrate emerging GHG-free technologies and business models.
- e) Promote cost effective, clean distributed generation through SMUD programs.

2. Executive Summary

SMUD's integrated resource planning process informs long-term strategic development by the various business units within SMUD, and efforts are made to balance reliability, sustainability, environmental, financial, and customer objectives while achieving SD-9 goals. In 2020, SMUD's Board adopted a Climate Emergency Resolution that calls on the Board to work towards carbon neutrality by 2030.

In 2021, the Board revised our SD-9 targets and put us on a path to eliminate GHGs from our power supply by 2030. Also, in April 2021, SMUD's Board approved our 2030 Zero Carbon Plan, our roadmap to eliminating GHGs from our electricity supply by 2030. Taken together, our progress will be measured against this plan with the objective of eliminating GHG emissions from our power plants as we develop new distributed energy resource business models, research emerging grid-scale carbon-free technologies, and expand our investments in proven clean technologies.

In 2021, our emissions were 2.425 million metric tons (MMt). Normalized GHG emissions, which represent our emissions under a typical weather year, were 1.845 MMt. We also met our 2021 RPS target of 35.75% renewables in 2021. As this report demonstrates, in 2021, SMUD was in compliance with each of the goals for the year established in SD-9.

3. Additional Supporting Information

A. Implementation of our 2030 Zero Carbon Plan

Our 2030 Zero Carbon Plan is our road map to eliminating GHGs from our electricity supply by 2030 while maintaining reliable and affordable service and partnering with our customers, communities, and a wide range of stakeholders on this journey. This plan calls for eliminating GHGs from our power plants and expanding our investments in proven clean technologies. Below is a discussion of our current carbon footprint as well as an update on the near-term actions we're taking in support of our SD-9 goals and our 2030 Zero Carbon Plan; for more detailed project information see Appendix C – Detailed Project Descriptions.

As shown in Table 1, SMUD's GHG footprint in 2021, adjusted for weather and hydro conditions, was 1.845 MMt, which is on trajectory to our 2030 Zero Carbon goal. SMUD's main sources of GHG emissions were from SMUD's thermal power plants and market purchases.

Table 1: 2021 SD-9 Carbon Footprint & Near-term Targets

Source	Net Power (GWh)	CO2e Emissions (1000 t) ¹
Net Generation and Power Purchases	11,882	2,663
Wholesale	(983)	(238)
SMUD Electric Sales, SMUD Usage and System Losses Non-Normalized Total ²	10,899	2,425
Adjustment for Normal Load		(122)
Adjustment for Normal Wind and Hydro		(304)
REC Banking Adjustment		(154)
SMUD Normalized Total (estimate)		1,845
2030 Target		0

Expanding our Sustainable Power Supply; Local and Regional Benefits

We're focused on reimagining our generation portfolio through retirement or retooling of our natural gas assets, expanding our local investments in proven clean technologies and launching pilot projects and programs for new and emerging technologies all while continuing our work to improve equity for our under-resourced communities and the health of ecosystems that support us all.

Proven Clean Technologies and Zero Emission Resource Development

We continue to add and plan new proven clean technologies, such as wind, geothermal, solar, and energy storage that will continue to reduce our GHG emissions, tracking with our 2030 Zero Carbon Plan. Staff continue to conduct procurement efforts, cultivate new resource development, and implement new ideas. In 2021, we added over 160 MW of renewables and have over 1,000 MW of new renewables and storage in the pipeline for development to serve our customers due online in the

¹ Based on SMUD's internal accounting and represent best estimates available. The thermal power plant emissions, SMUD's largest source of emissions, have been independently verified. Biogenic emissions are excluded as they are part of the natural carbon cycle.

² Emissions by individual thermal asset can be found in the 2021 SD-7 Report.

coming years. And in late 2021, SMUD released a request for developer proposals for solar plus battery projects in the northern portion of our service territory.

Although our goals are more ambitious than already aggressive state mandates, we continue to implement a renewable energy strategy that fulfills state RPS requirements. SMUD achieved our 2021 RPS target by serving 35.75% of retail sales with renewables and are on path to achieving the next RPS statutory requirement of 44% RPS in 2024.

We continue to be a leader in the nation by offering our customers voluntary renewable program choices. Last year SMUD delivered 949 GWh, 9.1% of retail sales, to customers participating in Greenergy and SolarShares. Our Greenergy program served more than 72,000 residential and commercial participants equal to 632 GWh and our Large Commercial SolarShares program met program expectations, delivering 317 GWh of renewable power to these customers. Our Neighborhood SolarShares program, approved by the CEC in early 2020, will be served from solar resources within SMUD's service territory. The first of those resources, Wildflower (13 MW), came online in December 2020. In 2021, 120 homes were completed by builders and started billing under the Neighborhood SolarShares program. The program delivered 64 MWh of local solar power to participating customers in 2021.

New Technology and Business Models

Using proven clean technology, we expect to be able to reduce our 2030 emissions by 90% without compromising reliability or our low rates. To eliminate the last 10%, we'll need to explore, develop, and demonstrate new technologies. As part of our 2030 Zero Carbon Plan, we are on track with our year one implementation priorities in this area.

- Perform information technology system upgrades to enable DERs and VPPs this work is ongoing, anticipated initial implementation to be completed in 2022.
- Work to integrate DERs in operations, distribution and the grid planning process is ongoing and will evolve based on our experience with our new load flexibility pilots.
- Support our load flexibility efforts by launching new pilots, including the storage virtual power plant, and expanding our EV managed charging and vehicle-to-grid demonstrations.

We continue to fund research and development efforts and to look for grants for clean energy and GHG reduction projects. Finally, recognizing the importance of equity, we will continue to prioritize under-resourced communities to help reduce the energy cost burdens of our low-income customers while ensuring equity in our program offerings.

Improving Equity for Under-Resourced Communities

SMUD's GHG reduction actions help reduce climate change, but our work is about more than that. We are staying true to our roots—as a community-owned organization, implementation of our 2030 Zero Carbon Plan will deliver wide-reaching benefits to our community, including expanded workforce development program offerings, while focusing on equity and strengthening our communities—one SMUD, one Sacramento. In 2021, SMUD began developing a Community Impact Strategy. This 2030 Zero Carbon Plan aligned stakeholder-informed strategy, to be completed in 2022, will underline our commitment to making meaningful investments in under-resourced communities to ensure their participation in a clean energy future. Thus far, strategy development has included community listening sessions and stakeholder feedback, detailed gap analysis of who we are serving, and identification of barriers to participation across customer segments.

Through a collaborative, community-based approach, SMUD identifies emerging zero carbon energy and electrification related jobs and skills and partners with community organizations and education entities to create training programs to position participants from under resourced communities to fill the projected need for workers in the clean energy industry and other emerging high wage careers.

• SMUD has partnered with GRID Alternatives to provide job readiness and technical training to almost 100 community participants to prepare them for careers in the clean mobility sector.

Energy Efficiency and Building and Vehicle Electrification

Our building energy efficiency portfolio includes offerings for residential retailer incentives, residential customer rebates, commercial builder incentives, and commercial customer rebates. The building electrification portfolio includes offerings for gas-to-electric conversions of water heating equipment, space heating equipment, and cooktops delivered through residential new construction, whole house retrofits, and prescriptive equipment rebates. In 2021, our energy efficiency and building electrification programs reduced emissions by 53,388 tCO2 [Civic Carbon], equivalent to 6,817 additional all-electric homes.³ Our goal is to have these building electrification and efficiency programs reduce emissions by 365,000 t in 2030, the equivalent of electrifying 112,000 single family homes.

SMUD's vehicle electrification portfolio includes offerings in residential electric vehicle (EV) incentives, dealership incentives, residential outreach, commercial charger incentives, and commercial vehicle incentives. At the end of 2021, we had 23,576 EVs registered within SMUD's service territory, an increase of 5,599 registered vehicles⁴ and an estimated annual reduction of almost 26,000 t. 21,218 are residentially registered EVs.⁵ Our goal is to have these vehicle electrification programs reduce transportation emissions by 1,000,000 t in 2030, the equivalent of electrifying 288,000 vehicles.

B. Promote Cost Effective Clean Distributed Generation and Storage

SD-9 requires that SMUD develop programs to promote cost effective, clean distributed generation. The following describes progress in 2021 and alignment with our 2030 Zero Carbon Plan.

Flexible Demand

Our flexible demand programs seek to optimize operation of our customer-partner's equipment and distributed energy resources while balancing customer-partner and grid needs as well as compensating customers for the energy they supply into SMUD's grid for use by other customers. In 2021, we awarded a program implementation contract for the residential My Energy Optimizer – Partner level offerings for smart thermostats and battery storage systems. Set to be launched in Summer 2022, this program is the first of SMUD's Virtual Power Plant initiatives, which includes a Critical Peak Pricing rate offering. Other planned initiatives for 2022 include launching the residential Managed EV charging pilot and the My Energy Optimizer – Partner+ program for battery storage (storage virtual power plant as mentioned above).

With our PowerDirect® program, commercial customers were notified ten times to curtail load; average load reduction of 4.29 MW to 8.54 MW across the duration of the events. ⁶ Under our temperature dependent rates, two commercial customers were notified five times during the summer, 6.28 to 14.38 MW of load reduction was realized. ⁷ Finally, our air conditioning load management program called Peak Corps, provides about 59 MW of resource adequacy capacity and remains an operational

³ The DER Cost Effectiveness Tool evaluates and accounts for DER program effectiveness, calculating gross annual emissions impact. It is reported in each year the "measure" is installed on the grid and within its useful life.

⁴ EPRI Vehicles in Operation (VIO) report

⁵ IBID.

⁶ NERC WebDADs report

⁷ NERC WebDADs report

resource to be used in case of an emergency. All together, our dispatchable programs provide an expected load shed range of 53.5 to 77.5 MW; our non-dispatchable programs provide between 0 and 15.5 MW of expected load shed.

As part of our load flexibility programs, we offer time-of-day rates, which give majority of our customers more time on the lower priced non-summer seasonal rate. A new optional residential Critical Peak Pricing rate was approved for implementation in early 2021. This rate is applicable to qualifying load flexibility programs that are being offered to support the 2030 Zero Carbon Plan, such as the My Energy Optimizer Partner offering mentioned above.

As part of our 2030 Zero Carbon Plan, pilot programs aimed at flexible energy use will allow customers to reduce their energy usage and bills at times when grid stress is the highest.

Clean Distributed Generation and Storage

In 2021, we had almost 40,000 total customer-sited PV installations in SMUD's service territory and over 500 total customer-sited storage installations. During the year, 26 MW of customer sited solar PV was installed (about 5,500 systems) and almost 3.5 MW of commercial (about 170 systems). Additionally, 1.62 MW of residential customer-sited energy storage projects were installed or in progress, about 250 systems; 1 commercial system was installed (0.01 MW). In addition, SMUD's first utility-scale battery storage system, a 4 MW lithium-ion battery connected to our distribution system, became operational.

4. Challenges

There were no notable challenges to meeting the goals in SD-9.

5. Recommendation

It is recommended that the Board accept the Monitoring Report for SD-9.

Appendix A - SD-9 History

SD-9 was established by SMUD's Board in 2004 and provides direction for SMUD's ongoing environmental leadership and the use of an IRP process to achieve these directives while balancing environmental goals with financial and customer rate impacts and reliability requirements. SMUD's strategic directions have evolved as markets, policies and laws have changed.

In December 2008, the Board added sustainable power supply as the overall objective of the integrated resource planning process and set a GHG emissions target. In 2018 the Board updated our greenhouse gas reduction goals to include a 2040 Net Zero GHG goal. In 2020, the Board amended SD-9 to adopt carbon-based targets for energy efficiency and building electrification. This change represents the first time a major utility has used carbon as its efficiency tracking metric and was done to better align our energy efficiency and electrification programs as well as to align both of those programs with our evolving energy supply picture.

In April 2021, the Board adopted Resolution No. 21-04-04 which updated the SD-9 direction to align with our 2030 goal of 0 t GHG emissions in our energy supply by 2030, as put forth in our 2030 Zero Carbon Plan. SMUD has embarked on a path to zero carbon by 2030, focusing on zero carbon resource acquisition and new renewable energy contracts, expanding on customer programs for energy efficiency and building and transportation electrification, developing new voluntary customer programs, and researching emerging clean energy technology. Under SD-9, SMUD's goal, the reduction of GHG emissions for serving retail load from its current state to zero carbon by 2030, is more aggressive than California's SB 100 trajectory, which requires that utilities meet electric demand with at least 60 percent eligible renewable resources by 2030.

Appendix B - Methodology Discussion

Normalization Adjustments

Emissions adjustments to SMUD's actual GHG footprint include a *decrease* to account for higher-than-expected energy usage by SMUD customers, a *decrease* to account for lower-than-expected hydro production, an *increase* to account for higher-than-expected wind production and a *decrease* for using banked renewable energy credits (RECs). In 2021, SMUD strategically utilized banked RECs to achieve RPS mandates as additional large renewable projects are developed. In previous years, SMUD procured more renewable energy than required and received credits for future use. These credits were saved or banked in accordance with RPS rules, which *increased* our normalized SD-9 emissions in those years to account for these banked RECs. Using these banked RECs lowers SMUD's normalized emissions because any emissions impacts were realized at an earlier date, but not yet credited to SMUD. As SMUD utilizes its remaining REC surplus over the next few years and renewable procurement ramps up to meet the 2030 Zero Carbon Plan goals, which are expected to far exceed RPS obligations, SMUD plans to phase out REC normalization.

In 2021, a historic drought affected much of the Western United States, which resulted in lower hydropower generation across California and the Pacific Northwest (PNW). In previous years, short-term carbon-free power purchases from the PNW have greatly contributed to SMUD being below our SD-9 carbon goal the last several years, but we understood that our ability to take advantage of these resources was highly dependent upon water conditions in the PNW and thus availability. Due to these widespread drought conditions in 2021, which resulted in the reduced availability of low carbon and carbon-free resources from the PNW, SMUD was not able to purchase at the same level as previous years, which contributed to emissions increases relative to 2020.

Renewables Portfolio Standard (RPS)

State RPS law requires SMUD procure renewable generation of at least 60% of retail sales by 2030 as well as interim targets be achieved over several compliance periods⁸. In 2021, we achieved our, and the State's, RPS target of 35.75% with 3,485 GWh of eligible renewable energy.

Appendix C – Detailed Project Descriptions

Sustainable Communities

Implementation of our 2030 Zero Carbon Plan will deliver wide-reaching benefits to our community while focusing on equity and strengthening our communities.

- Transportation Electrification. SMUD is dedicated to partnering with the community to expand eMobility Hubs throughout our region, which will be strategically located at sites in underresourced communities. These Hubs will include various modes of transportation such as public transit, micro mobility, shared mobility, ride hail, taxi services, community electric vehicles, public EV charging stations, etc. Additionally, EV programs will be expanded to assist customers that own or lease an electric vehicle to charge at home by providing low cost or free EV charging infrastructure for income eligible customers and expertise on home charging solutions. We also offer incentives to expand EV charging infrastructure at public locations, multifamily properties and affordable housing sites.
- Load Flexibility. SMUD will work to ensure that all customers can participate in the portfolio of load flexibility pilots launching in 2021 and 2022. These pilots will help achieve our 2030 zero carbon goal, yet they can sometimes require costly technology like a smart thermostat, electric vehicle, or battery storage system to participate. SMUD will continue to explore ways in which our load flexibility pilots can be more inclusive despite this barrier. Possible examples include, integrating load flexibility program enrollment into our existing low-income weatherization program, which already provides a no-cost smart thermostat in most cases and/or creating a no-cost technology installation pathway for low-income homeowners or renters to participate in our virtual power plant program with their heating/cooling system.
- <u>Building Electrification and Energy Efficiency</u>. To support SMUD's equity efforts as part of the 2030 Zero Carbon Plan, SMUD will continue expansion of its existing efforts to provide no-cost energy retrofit installations to income eligible residential customers for both gas-to-electric conversions and electric-to-electric upgrades. Available project measures include electric heat pump water heaters, electric heat pump HVAC units, seal and insulate projects, and panel upgrades. In addition, SMUD will continue to provide a low-income incentive premium for projects within SMUD's Multifamily retrofit program that meet affordable housing criteria

Our Sustainable Communities Workforce Development efforts partner with organizations to reach into our community to understand the challenges that residents face in pursuing good-paying careers. SMUD trained over 800 people in a variety of skills to help them find higher paying, more secure jobs. At the same time, we renewed our focus on the jobs and skills that will help our community get to zero carbon.

As part of that effort, SMUD completed the first year of its inaugural Energy Careers Pathways training partnership with Grid Alternatives. The solar workforce program recruited individuals from under resourced communities and provided them four weeks of paid instruction; two weeks of online learning and two weeks of in-person instruction in a hands-on format. Upon graduation, participants

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⁸ Senate Bill 100 (De León, Chapter 312, Statutes of 2018) increased RPS targets to 44% by the end of 2024, 52% by the end of 2027, 60% by the end of 2030 and sets a statewide retail sales goal of 100% RPS eligible and zero-carbon resources by 2045.

were matched with potential employers to demonstrate what they have learned by showcasing conduit bending, wired J-boxes, and more. Students also learned about the installation and importance of battery storage and EV charging infrastructure. The program closed the year with a total of 196 program applicants, 93 participants completing the initial 2-week online training, 52 participants completing the subsequent 2 week in-person training, and 28 job placements.

Additionally, to deploy comprehensive resources for our communities most in need, we must align our region's investments toward the goal of creating and supporting healthy, vibrant, and economically sustainable neighborhoods. We have several data collection and visualization tools aimed at matching areas of inequity within the Sacramento region with future investment; we're working to address potential inequities in the way we do business. These include our Sustainable Communities Resource Priorities Map, which we used as part of our 2030 Zero Carbon Plan work in 2021 to identify thermal power plants in high/moderately high sensitivity areas that should be targeted for emissions reductions and our internal Sustainable Communities Dashboard. This dashboard tracks funding and links partners and projects across six key focus areas – Institutional Support and Outreach, Education, Health Equity, Environmental Leadership, Economic Development, and Transportation and Access. These metrics coupled with expanded access to equitable workforce pipeline and business creation, will serve to validate investments across focus areas.

Proven Clean Technology Projects

Table 2 details new proven clean technology procurement activities.

Projected Online or Status **Project Name** MW Type **Delivery Date** PV Rancho Seco 2 Online 2021 160 7 Online Chili Bar Small Hydro 2021 4 **Battery** Online 2022 Hedge Battery PV 100 NTUA Drew Solar **Under Construction** 2022 Northern California Geothermal 100 Procured 2023 Geothermal PV 200 Coyote Creek Planning 2024 Battery 100 Slough House PV 50 2023 **Planning** PV 340+ Country Acres 2024 **Planning** 170+ Battery Solano 4 Wind 86 **Pre-Construction** 2024 Total 1.000 +

Table 2: New Procurement and Project Development Status

Additionally, in the near-term, we are exploring options to procure or develop additional zero emission resources, including local solar and storage, to help achieve our 2030 Zero Carbon Plan.

Energy Efficiency Programs

In 2021, accomplishments for SMUD's residential new construction program include 298 newly built all-electric homes and installed 781 gas-to-electric heat pump water heaters in existing homes, 1,392 gas-to-electric HVAC systems in existing homes, and 133 gas-to-electric induction cooktops in existing homes.

Below, in Table 3, is a summary of some of our 2021 energy efficiency and building electrification accomplishments, including offerings for our income eligible customers.

Table 3: 2021 Energy Efficiency and Building Electrification Accomplishments

Measures & Projects	Results
Commercial Projects Completed Complete Energy Solutions	60
Commercial Projects Through Express Energy Solutions	681
Custom Commercial Projects Completed	59
New Efficient Commercial Buildings Constructed	21
Multifamily Apartments Retrofitted (Electric To Electric)	136
Multifamily Apartments Retrofitted (Gas To Electric)	79
Efficient Induction Cooktops (Electric To Electric)	157
Efficient Induction Cooktops (Gas To Electric)	133
Energy Star Products Purchased through RPP Retailers	35,830
Advanced Power Strips Installed	1,936
Old Refrigerators Recycled	2,641
Residential Heat Pump Water Heaters Installed (Electric To Electric)	4
Residential Heat Pump Water Heaters Installed (Gas To Electric)	781
Residential HVAC Installations (Gas To Electric)	1,392
Residential Seal and Insulate Installations	427
All Electric New Homes Constructed	298
Income Eligible Energy Efficiency Bundles and Electrification	Results
Energy Efficiency Weatherization	1,998
Heat Pump Space Heating (Gas to Electric)	178
Heat Pump Water Heaters (Gas to Electric)	98
Induction Stoves (Gas to Electric)	19

Vehicle Electrification

The California Mobility Center applied for and received IRS tax exempt 501(c)(3) status in 2021. After securing a lease for its initial 25,000 square foot manufacturing and prototyping facility at Depot Park, CMC procured its initial baseline equipment and was commissioned in Q1 2021. The facility, called Ramp-Up-Factory (RUF) is operational with training suite installed. 15 service provider contracts were executed with additional consultants and strategic partners that continue to support the CMC and CMC clients.

In 2021, CMC expanded the Board from a Founders group of five to a broad-based Board of 16, with strong automotive sector representation. CMC developed its online, recruitment management tool to expand its membership campaign. By year-end, CMC reached a total of 39 members, with 98 representatives registered in the online portal. Additionally, CMC launched various membership committees, the Industry Advisory Council and a monthly CMC Thought Leadership webinar series.

CMC designed and developed materials for the organization's marketing and public relations initiatives; continually updated its rebranded website (www.californiamobilitycenter.org); and wrote/distributed eight press releases in 2021, reaching over 15,000 media industry views. Additionally, CMC appeared in over 213 industry and news articles and sponsored twelve industry events held in the US and internationally.

Lastly, the CMC workforce program has provided training in partnership with community-based organizations, adult learning centers and CSU Sacramento. The Workforce Pathways Partnerships

Program started in 2020 with a \$1.4 million CARES Act grant from the City of Sacramento. In 2021, CMC received a \$600,000 grant from California Workforce Development Board to advance jobs and training associated with the climate and technology impacted industries. CMC was able to assist 115 people in securing internships or employment through the Workforce Pathways Partnerships Program.

SMUD team members also collaborate broadly through the Sacramento PEV Collaborative, which includes the County of Sacramento, the City of Sacramento, Sacramento Metropolitan Air Quality Management District (SMAQMD), Sacramento Area Council of Governments (SACOG), State of California agencies, UC Davis Institute of Transportation Studies, Electrify America, Sac EV and many others.

In 2021, SMUD's Drive Electric program continued to promote adoption of plug-in electric vehicles (PEV) through a special EV rate offering, launch of our "Charge@Home" residential EV charger purchase and circuit installation rebate in December, and participation in educational events, educational offerings through our website http://www.SMUD.org/DriveElectric and in collaboration with local auto dealers and Sac EV. At the end of 2021, 12,176 customers, approx. 60% of Residential EV households, participated in the EV rate credit (midnight to 6 AM EV charging discount). Moreover, through SMUD's funding of the statewide California Clean Fuel Reward program SMUD customers received 4,790 point of sale rebates on the purchase or lease of a new EV.

Due to COVID restrictions, in lieu of in-person events, staff produced a virtual ride & drive video to expand capabilities and reach. The video, designed for customers, is "experiential" and to the extent possible educates viewers on many "EV lifestyle" elements. The video received over 17,000 views between its August 2021 launch and the end of the year.

Other 2021 activities included:

- SMUD Commercial EV Program and partnership with California Electric Vehicle Infrastructure
 Project (CALeVIP) incentives included 242 Level 2 handles, 58 DC Fast Chargers and 26
 vehicles incentivized. SMUD partnered with the California Energy Commission and the Center
 for Sustainable Energy on the California Electric Vehicle Infrastructure Project (CALeVIP) in
 Sacramento County to promote the installation of public level II and DC fast charging stations.
 The program stopped taking applications for new projects in October 2021, but installations
 will continue into 2022 and 2023. The partnership was the first of its kind in the state and is
 being used as a model for projects in other areas of California.
- Continued live online dealer EV sales training webinars as well as on-demand online training, in response to COVID, as an additional resource to enhance dealer certification as PlugStar certified dealers. Twenty-two dealers are participating in the program.
- Increased exposure to and participation in our "EV Concierge" service for SMUD customers through Plug in America's Electric Vehicle Support Program, which offers live one-on-one support answering questions on all things EV.
- Implemented our second EV auto dealership competition to encourage and incentivize EV sales and reward dealerships and their staff for increased EV promotion.
- Continued integral support of the Clean Cars for All program in conjunction with SMAQMD.
 This program provides up to \$9,500 toward a new or used PEV for income-qualified residents living in areas impacted by higher levels of pollution (disadvantaged communities). Through this partnership, SMUD has provided a free installation of a home EV Charger for customers that participated in Clean Cars for All; we installed 131 in 2021.
- Facilitated the third *Charge Up Change!* EV video competition in which middle school students produce a video on why "EVs are cool" and compete for monetary awards and other recognition.

Time-of-Day (TOD) Rates

Our residential customers reduced overall load in the range of 75-115 MW. In addition to avoiding peak energy prices, customers, on average, saved money using more energy in the middle of the day when retail energy prices are cheaper, and renewables are abundant. Participation in the program has remained strong with 97% of customers on TOD rates.

Table 4: 2021 Results of TOD Implementation Compared to Pilot Projections

Benefits	Pilot projections	2021 Normal Weather
Carbon reduction (metric tons)	3K-5K	11.45K
Residential peak load reduction	75MW, or 5.8%	~75MW – 115MW, or 4-7%
Financial benefit	\$4M annually	\$11M estimated ⁹
Selection of TOD	96%	97%

Zero Emission Resources

We are continuing to fund research and development efforts as well as pursue grants for clean energy and GHG reduction projects in 2021 and beyond as part of our 2030 Zero Carbon Plan. Below are just a few of the projects that we explored in 2021; more information on our research and development work can be found in our annual Strategic Direction 10 (SD-10) Report.

- <u>Carbon Reduction Projects for Zero Carbon Planning.</u> Completed high level techno-economic
 assessments of proven and emerging clean technology expansion opportunities (wind, onshore and off-shore; solar PV; geothermal; biomass/biogas for RNG), long duration storage
 technologies, carbon capture, renewable hydrogen and gas pipeline analysis. Results of these
 assessments will be used as information in our continuous planning efforts for our 2030 Zero
 Carbon Plan.
- Assessment of Alternative Clean Fuels. Completed assessment of sustainability, existence of supply/suppliers, price forecasts, market trends, and the economic/technical feasibility of alternative biofuels such as ethanol, biodiesel, renewable diesel, propane, RNG, and green hydrogen. RNG and green hydrogen were short listed for further deep dive assessments and considerations to decarbonize our natural gas power plants.
- Wind Resources in Northern CA. Assessed all available wind generation resource potentials in Northern California that can feasibly deliver to SMUD or the Balancing Authority of Northern California.
- Low-carbon Fuel Standard (LCFS) Electricity Pathways. For Van Warmerdam and Van Steyn Dairy Digesters, completed the first annual re-calculation of carbon intensities (CIs) and annual report with recent performance data that were submitted to CARB. For New Hope Dairy Digester, completed the certification of New Hope Dairy Digester Electricity Pathway to charge EVs with CI score of -750.81 gCO2/MJ (CI Deemed Complete: 1/1/2021, CI Certified on 6/28/2021, CI Start Date: 1/1/2021)

⁹ This calculation uses customer load adjusted for impacts of COVID 19.

Grant Funded Clean Energy Projects

- Hydrogen Blend Collaborative Research. Completed the literature review and technoeconomic analysis requirements for this pipeline hydrogen blending collaborative research. This project will address the barriers on pipeline materials compatibility & degradation related to the blending of hydrogen into natural gas pipelines, a concept referred to as HyBlend. SMUD will provide data and will serve as one of the sites or use cases for injection point of H2. Data that will be provided will be used for techno-economic analysis to quantify costs and opportunities of H2 production and blending with natural gas.
- BestFit Innovative Charging Solutions. SMUD will partner with Electriphi, the project lead applicant, in collaboration with other key partners to demonstrate a cost-efficient and gridfriendly pathway for fleet electrification across diverse vehicle types. This project will accelerate V2G, offsetting what would otherwise be costs to SMUD.
- Blueprint for Medium & Heavy-Duty Zero-Emission Vehicle Infrastructure. Grant-funded project by the CEC to create a landmark regional blueprint plan to accelerate adoption of medium and heavy-duty Zero Emission Vehicles in Sacramento and West Sacramento. The plan will identify locations for charging and hydrogen refueling stations that will optimize existing grid capabilities, reducing implementation and operational costs while accommodating the needs of communities. The project also assesses workforce development needs to implement the plan's various elements and to ensure broad economic opportunity in the growing EV sector.

Distributed Generation Studies

 <u>DER Carbon Tool.</u> Completed the development and expansion of DER planning and modeling tool that assess carbon reduction/savings, budgeting, portfolio optimization, cost effectiveness and load forecasting for EE and building electrification, electric vehicles (EV), solar PV, battery storage and flexible load measures.

Climate Change and Ecosystem Service Research Projects undertaken in 2021

These projects provide technical, economic, and policy expertise on climate change and biodiversity, assisting operations in identifying and addressing climate vulnerabilities, and creating opportunities for SMUD, customers and community partners to support climate neutrality and ecologically regenerative projects with a net positive impact.

- Began executing our multi-year ecosystem service integration research at SMUD's Rancho Seco II Solar project, including soil carbon monitoring, native seeding and hedgerows, grazing and pollinator field studies, with partners the Electric Power Research Institute (EPRI), UC Davis Wild Energy Lab and the Xerces Society. This research is expected to continue until Fall 2025.
- Began development of a new Agrivoltaic research program proposal for integration with future utility scale solar projects in support of regional food security.
- Continued executing American Public Power Association Demonstration of Energy and Efficiency Development (APPA-DEED) grant-funded field assessment and reporting on two new grocery store installations funded by our award-winning Natural Refrigerant Incentive Program, which are expected to deliver over 10,000 t CO2e reduction relative to conventional systems.

Voluntary Renewable Energy Programs

Greenergy is a voluntary green pricing program that gives customers the option to receive carbon free electricity generated in and delivered to California by paying a fixed monthly rate (\$4 or \$8) to match either 50% or 100% of their usage with renewable energy credits. When a customer enrolls in

Greenergy, their usage is tracked according to their enrollment level. SMUD uses the proceeds from this program to purchase renewable/carbon free power or renewable energy credits to supply participants from generators located within California. These purchases are in addition to our RPS requirements.

Customer-side Solar and Storage Status

In 2016, SMUD achieved our SB1 Program funding goals for residential and commercial solar installations. Currently, there are remaining SB1 funded solar projects still under development. Additionally, residential and commercial solar systems are being installed under our net-energy metering tariff. In 2021, nearly 30 MW of new customer solar was installed in SMUD service territory under net-energy metering agreements. Table 5 summarizes solar installation data through 2021 and Table 6 summarizes our cumulative customer storage installations through 2021.

Table 5: Installed Customer PV¹⁰

	Residential		Commercial		Totals		
	Installed Systems	MW	Installed Systems	MW	Installed Systems	MW	
2021	5,535	26.56	171	3.36	5,706	29.92	
Totals	39,071	174.14	888	108.38	39,959	282.52	

Table 6: Cumulative Customer Storage Installations

	Resid	ential	Commercial		Totals		
	Installed Systems	MW	Installed Systems	MW	Installed Systems	MW	
2021	246	1.62	1	0.01	247	1.62	
Totals	504	3.35	2	0.21	506	3.56	

¹⁰ This table includes net-energy metering (NEM), Solar Smart, virtual net-energy metering (VNEM) installations, and projects funded with SB-1 dollars.



RESOLUTION NO.					

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SACRAMENTO MUNICIPAL UTILITY DISTRICT:

This Board accepts the monitoring report for Strategic Direction	SD-9,
Resource Planning, substantially in the form set forth in Attachment he	ereto and
made a part hereof.	

SSS No.		

CFO 21-018

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Doord Mosting Date
Board Meeting Date
October 20, 2022

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				ТО							ТО		
1.	Jennifer David	son				6.							
2.						7.							
3.						8.							
4.						9.	Legal	l					
5.						10.	CEO	&	Gener	al I	Manager		
Cor	sent Calendar	Yes		No If no, schedu	ule a dry run presentation.	Bud	geted		Yes		No (If no, exp section.)	olain in Cos	t/Budgeted
FRC	DM (IPR)				DEPARTMENT	1		1	<u> </u>		MAIL STOP	EXT.	DATE SENT
	a Limcaco				Accounting						B352	6957	8/2/22
	RRATIVE: quested Action:		_		n SMUD's financial re								
	Summary: Board Policy: (Number & Title)	GP-3,	t P		D's financial results for Costs to the Board of Diption			o-da	ite peri	iod	in 2022, and	l a summ	ary of SMUD's
	Benefits:	Provid supply			rs with information reg	ardin	g SMUl	D's	financ	ial	condition and	d SMUD'	s current power
,	Cost/Budgeted:	N/A											
	Alternatives:	N/A											
A	ffected Parties:	Accou	nti	ng									
	Coordination:	Accou	nti	ng									
	Presenter:	Lisa L	im	caco, Controll	er & Director, Accoun	ting							

Additional Links:			

SUBJECT

ITEM NO. (FOR LEGAL USE ONLY)

SMUD's 2022 Year-to-Date Financial Results & Power Supply Costs

SACRAMENTO MUNICIPAL UTILITY DISTRICT OFFICE MEMORANDUM

TO: Distribution DATE: September 30, 2022
ACC 22-022

FROM: Kathy Ketchum / Lisa Limcaco

SUBJECT: AUGUST 2022 FINANCIAL RESULTS AND OPERATIONS DATA

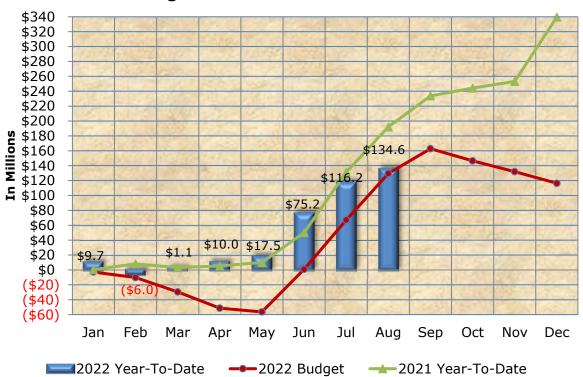
We are attaching the financial and operating reports for the eight months of 2022. They include sales and generation statistics and other selected data.

The change in net position is an increase of \$134.6 million compared to a budgeted increase of \$129.5 million, resulting in a favorable variance of \$5.1 million.

We prepared these statements on the accrual basis of accounting, and they conform to generally accepted accounting principles. The bases for the budget amounts are:

- 1) Budgeted electric revenues are based on the Forecast of Revenues by the Pricing Department, adjusted for unbilled revenues; and
- 2) Budgeted operating expenses reflect the 2022 Budget approved by the Board of Directors on December 9, 2021.

Change in Net Position Year To Date



SACRAMENTO MUNICIPAL UTILITY DISTRICT EXECUTIVE SUMMARY

For the Eight Months Ended August 31, 2022

Net Position

• The change in net position is an increase of \$134.6 million compared to a budgeted increase of \$129.5 million, resulting in a favorable variance of \$5.1 million.

Revenues

- Revenues from sales to customers were \$1,097.3 million, which was \$50.2 million higher than planned.
 - The increase is primarily due to higher commercial customer revenues of \$36.0 million, higher residential sales of \$15.1 million, and lower provision for uncollectible accounts of \$11.5 million, offset by a \$13.3 million year-to-date adjustment of commercial customer revenues related to the 2021 estimated unbilled revenues.
- Revenues under the California Global Warming Solutions Act (Assembly Bill [AB] 32) were \$17.4 million. This is due to carbon allowances sold through the state sanctioned quarterly auctions.
- Low Carbon Fuel Standard (LCFS) revenues were \$7.0 million, which was \$5.5 million lower than planned due to a decrease in price per credit and the timing of credit sales.
- Non-cash revenues transferred to the rate stabilization fund were \$24.4 million, of which \$17.4 million was for AB-32 and \$7.0 million was for LCFS. Funds are deferred until SMUD has qualified program expenses (projects that reduce carbon emissions or electric vehicle programs) to recognize revenue.
- Non-cash revenues transferred from the rate stabilization fund were \$30.2 million, of which \$25.1 million was for revenue recognized for the annual Hydro rate adjustment and \$5.1 million was for revenues recognized from LCFS electric vehicle programs expenses.
- Other electric revenues were higher by \$6.4 million primarily due to higher Procter & Gamble Power Plant steam sales, transmission revenue and interconnection fees offset by lower Greenergy revenue.

Commodities, Purchased Power and Production

Overall, load was higher than planned. Both thermal and hydro generation were lower than planned due to Cosumnes Power Plant outage and precipitation levels, respectively. This resulted in lower fuel usage, decreased net price per MMBTU (due to increased fuel sales), and additional purchased power expense.

- SMUD's generation was lower by 1,622 GWh (34.2 percent); JPA and other generation was lower by 1,268 GWh (34.1 percent); and Hydro generation was lower by 354 GWh (34.4 percent).
- Purchased power expense of \$497.6 million, less surplus power sales of \$101.0 million, was \$396.6 million, which was \$250.9 million higher than planned. Purchased power expense increased because of higher prices of \$143.5 million and higher quantities purchased of \$107.4 million due to the procuring of replacement power for the Cosumnes Power Plant (CPP) unplanned outage.
- Production operations cost of \$245.2 million, less surplus gas sales of \$141.7 million, was \$103.5 million, which was \$73.5 million lower than planned.
 - Fuel costs of \$142.7 million, less surplus gas sales of \$141.7 million, was \$1.0 million, which was \$94.4 million lower than planned. This is primarily due to lower fuel prices of \$65.0 million and lower fuel usage of \$29.4 million. Lower fuel usage is primarily due to the CPP unplanned outage. The lower price variance is due to surplus gas sales, natural gas hedging activities, and higher sales price per Renewable Identification Number (RIN), which resulted in sales of \$2.7 million higher than planned.
 - Offset by higher carbon allowances of \$6.2 million due to higher Calpine purchases due to lower hydro and thermal generation.
- The "power margin", or sales to customers less cost of purchased power, production operations costs and gas hedges included in investment revenue was \$618.0 million, which was \$106.5 million lower than planned. The power margin as a percentage of sales to customers was 56.3 percent, which was 12.9 percent lower than planned. This is primarily due to the additional purchased power for the replacement power for the unplanned outage at CPP.

Other Operating Expenses

- All other operating expenses were \$511.1 million, which was \$79.7 million lower than planned.
 - Transmission and distribution operation expenses were higher by \$4.7 million primarily due to higher TANC management expenses.

- Customer accounts expenses were \$5.1 million lower than planned primarily in Revenue Assurance due to vacancies and labor charged to projects.
- Customer service and information expenses were \$13.2 million lower than planned primarily due to lower than anticipated transportation electrification expenses due to a DOE grant not awarded for the Equity EV program, customer program expenses are lower due to supply chain issues and delays that affected customer participation, lower load management program expenses due to delayed launch of My Energy Optimizer, and lower Greenergy Recs and Carbon Offsets.
- Administrative and General expenses were down \$4.1 million primarily due to lower labor in new business development and enterprise strategy and lower labor and outside services in market development.
- Public good expenses were \$4.9 million lower than planned primarily due to a delay in Storage and Generation Research Projects, research and development labor being charged to technology areas, lower than plan incentives in Energy Storage and EV's, and overall fewer projects completed than planned.
- Production maintenance expenses were \$2.2 million lower than planned primarily due to lower hydro maintenance costs caused by deferring debris removal, inspection and cleaning of reservoir maintenance to 2023 and storm repairs completed earlier and at less cost than forecasted.
- Transmission and distribution maintenance expenses were \$4.4 million higher than planned. This is primarily due to higher service reconnect and repair expenses and underground line corrective maintenance caused by completing more work than planned for year-to-date, and higher station equipment preventative maintenance and onboarding/training of 13 new apprentices.
- Negative non-cash amortization of pension and other post-employment benefits (OPEB) was \$60.8 million lower than planned, which resulted in a positive impact to net position. This is due to Governmental Accounting Standards Board (GASB) 68 Pension and GASB 75 OPEB negative amortizations.

Non-operating Revenues and Expenses

- Other revenue, net, was \$26.2 million higher than planned primarily due to higher investment revenue of \$20.7 million due to natural gas hedging activities, \$3.2 million higher contributions in aid of construction due to differences between accounting treatment of offsets and amounts recorded for budget purposes, \$2.8 million higher interest income, and \$1.1 million due to a refund stemming from prior years purchased power expense related to the Simpson Biomass contract that ended in 2021.
- Interest charges were \$2.3 million lower than planned due to lower amortization on revenue bonds and lower commercial paper fees.

SACRAMENTO MUNICIPAL UTILITY DISTRICT STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION For the Month Ended August 31, 2022 (thousands of dollars)

· ·		Actual		Budget	(Over (Under)	Percent of Increase (Decrease)
OPERATING REVENUES							
Sales to customers	\$	201,797	\$	188,558	\$	13,239	7.0 %
Sales of surplus power	*	24,350	Ψ	32,828	Ψ.	(8,478)	(25.8)
Sales of surplus gas		23,911		-		23,911	*
SB-1 revenue (deferral)/recognition, net		15		_		15	*
AB32 revenue		5,400		_		5,400	*
LCFS revenue		1,575		1,477		98	6.6
Other electric revenue		4,173		2,559		1,614	63.1
Revenue to rate stabilization fund		(6,975)		2,000		(6,975)	*
Revenue from rate stabilization fund		484		_		(0,973)	*
Total operating revenues		254,730		225,422		29,308	13.0
		20 1,7 00					
OPERATING EXPENSES							
Operations		4.45.040		47.004		07.740	225.2
Purchased power		145,340		47,621		97,719	205.2
Production		25,742		30,699		(4,957)	(16.1)
Transmission and distribution		8,771		8,300		471	5.7
Customer accounts		5,043		5,396		(353)	(6.5)
Customer service and information		5,889		7,316		(1,427)	(19.5)
Administrative and general		13,766		14,010		(244)	(1.7)
Public good		7,878		5,191		2,687	51.8
Total operations		212,429		118,533		93,896	79.2
Maintenance							
Production		2,332		4,947		(2,615)	(52.9)
Transmission and distribution		9,326		10,052		(726)	(7.2)
Total maintenance		11,658		14,999		(3,341)	(22.3)
Depreciation and amortization							
Depreciation		18,518		18,855		(337)	(1.8)
Amortization of pension and OPEB		(6,515)		1,087		(7,602)	(699.4)
Amortization of regulatory asset		2,720		2,881		(161)	(5.6)
Total depreciation and amortization		14,723		22,823		(8,100)	(35.5)
Total operating expenses		238,810		156,355		82,455	52.7
OPERATING INCOME		15,920		69,067		(53,147)	(76.9)
NON-OPERATING REVENUES AND EXPENSES							
Other revenues/(expenses)							
Interest income		1,254		317		937	295.6
		•					293.0
Investment revenue (expense)		9,011 720		(165)		9,176	(0.2)
Other income (expense) - net				785		(65)	(8.3)
Unrealized holding gains (losses)		(2,132)		4 400		(2,132)	^ ^
Revenue - CIAC Total other revenues		1,572 10,425		1,163 2,100		409 8,325	35.2 396.4
		10,720		2,100		0,020	550.т
Interest charges						,	
Interest on long-term debt		7,935		8,549		(614)	(7.2)
Interest on commercial paper		8		176		(168)	(95.5)
Total interest charges		7,943		8,725		(782)	(9.0)
CHANGE IN NET POSITION	\$	18,402	\$	62,442	\$	(44,040)	(70.5) %

^{*} Equals 1000% or greater.

SACRAMENTO MUNICIPAL UTILITY DISTRICT STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION For the Eight Months Ended August 31, 2022 (thousands of dollars)

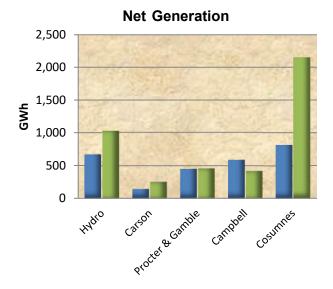
OPERATING REVENUES Sales to customers \$ 1,097,269 \$ 1,047,056 \$ 50,213 4.8 % Sales of surplus power 101,023 141,058 (40,035) (28.4) Sales of surplus gas 141,728 - 141,728 * SB-1 revenue (deferral)/recognition, net 15 - 15 * AB32 revenue 17,400 - 17,400 * LCFS revenue 6,957 12,475 (5,518) (44.2) Other electric revenue 28,814 22,402 6,412 28.6 Revenue to rate stabilization fund (24,437) - (24,437) * Revenue from rate stabilization fund 30,225 - 30,225 * Total operating revenues 1,398,994 1,222,991 176,003 14.4 OPERATING EXPENSES Operations - 245,156 176,903 68,253 38.6 Transmission and distribution 59,883 55,223 4,660 8.4 Customer service and information </th <th></th> <th></th> <th>Actual</th> <th></th> <th>Budget</th> <th></th> <th>Over (Under)</th> <th>Percent of Increase (Decrease)</th>			Actual		Budget		Over (Under)	Percent of Increase (Decrease)
Sales to customers \$ 1,097,269 \$ 1,047,056 \$ 50,213 4.8 % sales of surplus power Sales of surplus power 101,023 141,058 (40,035) (28.4) Sales of surplus gas 141,728 - 141,728 * SB-1 revenue (deferral)/recognition, net 15 - 15 * AB32 revenue 17,400 - 17,400 * LCFS revenue 6,957 12,475 (5,518) (44.2) Other electric revenue 28,814 22,402 6,412 28.6 Revenue from rate stabilization fund (24,437) - (24,437) * Revenue from rate stabilization fund 30,225 - 30,225 * Total operating revenues 1,398,994 1,222,991 176,003 14.4 OPERATING EXPENSES Operations 497,575 286,677 210,898 73.6 Production 245,156 176,903 68,253 38.6 Transmission and distribution 59,883 55,223 4,660	OPERATING REVENUES							
Sales of surplus power 101,023 141,058 (40,035) (28.4) Sales of surplus gas 141,728 - 141,728 * SB-1 revenue (deferral)/recognition, net 15 - 15 * AB32 revenue 17,400 - 17,400 * LCFS revenue 6,957 12,475 (5,518) (44.2) Other electric revenue 28,814 22,402 6,412 28.6 Revenue to rate stabilization fund (24,437) - (24,437) * Revenue from rate stabilization fund 30,225 - 30,225 * Total operating revenues 1,398,994 1,222,991 176,003 14.4 OPERATING EXPENSES Operations 8 7 286,677 210,898 73.6 Production 245,156 176,903 68,253 38.6 Transmission and distribution 59,883 55,223 4,660 8.4 Customer accounts 35,125 40,249 (5,124) (12.7) <		\$	1 097 269	\$	1 047 056	\$	50 213	48 %
Sales of surplus gas 141,728 - 141,728 * SB-1 revenue (deferral)/recognition, net 15 - 15 * AB32 revenue 17,400 - 17,400 * LCFS revenue 6,957 12,475 (5,518) (44.2) Other electric revenue 28,814 22,402 6,412 28.6 Revenue to rate stabilization fund (24,437) - (24,437) * Revenue from rate stabilization fund 30,225 - 30,225 * Total operating revenues 1,398,994 1,222,991 176,003 14.4 OPERATING EXPENSES Operations Purchased power 497,575 286,677 210,898 73.6 Production 245,156 176,903 68,253 38.6 Transmission and distribution 59,883 55,223 4,660 8.4 Customer accounts 35,125 40,249 (5,124) (12.7) Customer service and information 42,557 55,729 (13,172)		Ψ		Ψ		Ψ		
SB-1 revenue (deferral)/recognition, net 15 - 15 * AB32 revenue 17,400 - 17,400 * LCFS revenue 6,957 12,475 (5,518) (44.2) Other electric revenue 28,814 22,402 6,412 28.6 Revenue to rate stabilization fund (24,437) - (24,437) * Revenue from rate stabilization fund 30,225 - 30,225 * Total operating revenues 1,398,994 1,222,991 176,003 14.4 OPERATING EXPENSES Operations Value Value <td></td> <td></td> <td></td> <td></td> <td>141,000</td> <td></td> <td></td> <td>(20.4) *</td>					141,000			(20. 4) *
AB32 revenue 17,400 - 17,400 * LCFS revenue 6,957 12,475 (5,518) (44.2) Other electric revenue 28,814 22,402 6,412 28.6 Revenue to rate stabilization fund (24,437) - (24,437) * Revenue from rate stabilization fund 30,225 - 30,225 * Total operating revenues 1,398,994 1,222,991 176,003 14.4 OPERATING EXPENSES Operations Purchased power 497,575 286,677 210,898 73.6 Production 245,156 176,903 68,253 38.6 Transmission and distribution 59,883 55,223 4,660 8.4 Customer accounts 35,125 40,249 (5,124) (12.7) Customer service and information 42,557 55,729 (13,172) (23.6) Administrative and general 108,175 112,301 (4,126) (3.7) Public good 34,029 38,929 (4,900) (12.6) Total operations 1,022,500 766,011 256,489 33.5 Maintenance Production 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8					_			*
LCFS revenue 6,957 12,475 (5,518) (44.2) Other electric revenue 28,814 22,402 6,412 28.6 Revenue to rate stabilization fund (24,437) - (24,437) * Revenue from rate stabilization fund 30,225 - 30,225 * Total operating revenues 1,398,994 1,222,991 176,003 14.4 OPERATING EXPENSES Operations Variance Varia					_			*
Other electric revenue 28,814 22,402 6,412 28.6 Revenue to rate stabilization fund (24,437) - (24,437) * Revenue from rate stabilization fund 30,225 - 30,225 * Total operating revenues 1,398,994 1,222,991 176,003 14.4 OPERATING EXPENSES Operations Purchased power 497,575 286,677 210,898 73.6 Production 245,156 176,903 68,253 38.6 Transmission and distribution 59,883 55,223 4,660 8.4 Customer accounts 35,125 40,249 (5,124) (12.7) Customer service and information 42,557 55,729 (13,172) (23.6) Administrative and general 108,175 112,301 (4,126) (3.7) Public good 34,029 38,929 (4,900) (12.6) Total operations 1,022,500 766,011 256,489 33.5 Maintenance Producti					12 475			(44.2)
Revenue to rate stabilization fund (24,437) - (24,437) * Revenue from rate stabilization fund 30,225 - 30,225 * Total operating revenues 1,398,994 1,222,991 176,003 14.4 OPERATING EXPENSES Operations Variable								` ,
Revenue from rate stabilization fund 30,225 - 30,225 * Total operating revenues 1,398,994 1,222,991 176,003 14.4 OPERATING EXPENSES Operations Variation 200,000 245,156 176,903 68,253 38.6 Production 245,156 176,903 68,253 38.6 38.6 Transmission and distribution 59,883 55,223 4,660 8.4 Customer accounts 35,125 40,249 (5,124) (12.7) Customer service and information 42,557 55,729 (13,172) (23.6) Administrative and general 108,175 112,301 (4,126) (3.7) Public good 34,029 38,929 (4,900) (12.6) Total operations 1,022,500 766,011 256,489 33.5 Maintenance Production 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8					22,402			*
Total operating revenues 1,398,994 1,222,991 176,003 14.4 OPERATING EXPENSES Operations 497,575 286,677 210,898 73.6 Production 245,156 176,903 68,253 38.6 Transmission and distribution 59,883 55,223 4,660 8.4 Customer accounts 35,125 40,249 (5,124) (12.7) Customer service and information 42,557 55,729 (13,172) (23.6) Administrative and general 108,175 112,301 (4,126) (3.7) Public good 34,029 38,929 (4,900) (12.6) Total operations 1,022,500 766,011 256,489 33.5 Maintenance Production 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8					_			*
OPERATING EXPENSES Operations 497,575 286,677 210,898 73.6 Production 245,156 176,903 68,253 38.6 Transmission and distribution 59,883 55,223 4,660 8.4 Customer accounts 35,125 40,249 (5,124) (12.7) Customer service and information 42,557 55,729 (13,172) (23.6) Administrative and general 108,175 112,301 (4,126) (3.7) Public good 34,029 38,929 (4,900) (12.6) Total operations 1,022,500 766,011 256,489 33.5 Maintenance Production 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8					1 222 991			14.4
Operations Purchased power 497,575 286,677 210,898 73.6 Production 245,156 176,903 68,253 38.6 Transmission and distribution 59,883 55,223 4,660 8.4 Customer accounts 35,125 40,249 (5,124) (12.7) Customer service and information 42,557 55,729 (13,172) (23.6) Administrative and general 108,175 112,301 (4,126) (3.7) Public good 34,029 38,929 (4,900) (12.6) Total operations 1,022,500 766,011 256,489 33.5 Maintenance Production 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8	Total operating revenues		1,000,004		1,222,001		170,000	17.7
Purchased power 497,575 286,677 210,898 73.6 Production 245,156 176,903 68,253 38.6 Transmission and distribution 59,883 55,223 4,660 8.4 Customer accounts 35,125 40,249 (5,124) (12.7) Customer service and information 42,557 55,729 (13,172) (23.6) Administrative and general 108,175 112,301 (4,126) (3.7) Public good 34,029 38,929 (4,900) (12.6) Total operations 1,022,500 766,011 256,489 33.5 Maintenance Production 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8	OPERATING EXPENSES							
Purchased power 497,575 286,677 210,898 73.6 Production 245,156 176,903 68,253 38.6 Transmission and distribution 59,883 55,223 4,660 8.4 Customer accounts 35,125 40,249 (5,124) (12.7) Customer service and information 42,557 55,729 (13,172) (23.6) Administrative and general 108,175 112,301 (4,126) (3.7) Public good 34,029 38,929 (4,900) (12.6) Total operations 1,022,500 766,011 256,489 33.5 Maintenance Production 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8	Operations							
Production 245,156 176,903 68,253 38.6 Transmission and distribution 59,883 55,223 4,660 8.4 Customer accounts 35,125 40,249 (5,124) (12.7) Customer service and information 42,557 55,729 (13,172) (23.6) Administrative and general 108,175 112,301 (4,126) (3.7) Public good 34,029 38,929 (4,900) (12.6) Total operations 1,022,500 766,011 256,489 33.5 Maintenance Production 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8	·		497,575		286,677		210,898	73.6
Transmission and distribution 59,883 55,223 4,660 8.4 Customer accounts 35,125 40,249 (5,124) (12.7) Customer service and information 42,557 55,729 (13,172) (23.6) Administrative and general 108,175 112,301 (4,126) (3.7) Public good 34,029 38,929 (4,900) (12.6) Total operations 1,022,500 766,011 256,489 33.5 Maintenance Production 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8	· · · · · · · · · · · · · · · · · · ·		•					38.6
Customer accounts 35,125 40,249 (5,124) (12.7) Customer service and information 42,557 55,729 (13,172) (23.6) Administrative and general 108,175 112,301 (4,126) (3.7) Public good 34,029 38,929 (4,900) (12.6) Total operations 1,022,500 766,011 256,489 33.5 Maintenance Production 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8	Transmission and distribution							8.4
Customer service and information 42,557 55,729 (13,172) (23.6) Administrative and general 108,175 112,301 (4,126) (3.7) Public good 34,029 38,929 (4,900) (12.6) Total operations 1,022,500 766,011 256,489 33.5 Maintenance Production 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8	Customer accounts							
Administrative and general 108,175 112,301 (4,126) (3.7) Public good 34,029 38,929 (4,900) (12.6) Total operations 1,022,500 766,011 256,489 33.5 Maintenance Production Transmission and distribution 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8	Customer service and information							
Public good 34,029 38,929 (4,900) (12.6) Total operations 1,022,500 766,011 256,489 33.5 Maintenance Production							,	
Total operations 1,022,500 766,011 256,489 33.5 Maintenance Production Transmission and distribution 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8								
Maintenance 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8								
Production 31,080 33,230 (2,150) (6.5) Transmission and distribution 80,304 75,908 4,396 5.8			.,022,000				200,.00	
Transmission and distribution 80,304 75,908 4,396 5.8	Maintenance							
	Production		31,080		33,230		(2,150)	(6.5)
Total maintenance 111.384 109.138 2.246 2.1	Transmission and distribution		80,304		75,908			
	Total maintenance		111,384		109,138		2,246	2.1
Depreciation and amortization								
Depreciation 147,869 147,559 310 0.2			147,869		147,559		310	0.2
Amortization of pension and OPEB (52,123) 8,693 (60,816) (699.6)								(699.6)
Amortization of regulatory asset 24,235 23,047 1,188 5.2								
Total depreciation and amortization 119,981 179,299 (59,318) (33.1)	Total depreciation and amortization				179,299		(59,318)	(33.1)
Total operating expenses 1,253,865 1,054,448 199,417 18.9	Total operating expenses		1,253,865		1,054,448		199,417	18.9
OPERATING INCOME 145,129 168,543 (23,414) (13.9)	OPERATING INCOME		145.129		168.543		(23.414)	(13.9)
			,		•		, ,	(/
NON-OPERATING REVENUES AND EXPENSES	NON-OPERATING REVENUES AND EXPENSES							
Other revenues/(expenses)	Other revenues/(expenses)							
Interest income 5,498 2,650 2,848 107.5	Interest income		5,498		2,650		2,848	107.5
Investment revenue (expense) 19,553 (1,373) 20,926 *	Investment revenue (expense)		19,553		(1,373)			*
Other income (expense) - net 22,991 20,755 2,236 10.8								10.8
Unrealized holding gains (losses) (2,989) - (2,989) *					, -			*
Revenue - CIAC 12,453 9,291 3,162 34.0					9.291			34.0
Total other revenues 57,506 31,323 26,183 83.6								
, , , , , , , , , , , , , , , , , , , ,			,		,		,	-
Interest charges	•							
Interest on long-term debt 67,379 68,961 (1,582) (2.3)	Interest on long-term debt		67,379		68,961		(1,582)	(2.3)
Interest on commercial paper 663 1,362 (699) (51.3)	Interest on commercial paper		663		1,362			
Total interest charges 68,042 70,323 (2,281) (3.2)								
CHANGE IN NET POSITION \$ 134,593 \$ 129,543 \$ 5,050 3.9 %	CHANGE IN NET POSITION	\$	134,593	\$	129,543	\$	5,050	3.9 %

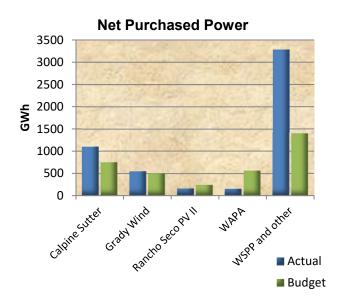
^{*} Equals 1000% or greater.

SACRAMENTO MUNICIPAL UTILITY DISTRICT SOURCES AND USES OF ENERGY - COMPARED TO BUDGET For the Period Ended August 31, 2022

			Increase			Increase
	Mor	nth	(Decrease)	Year t	o Date	(Decrease)
Sources of Energy (GWh)	Actual	Budget	Percentage	Actual	Budget	Percentage
Net Generated						
Hydro	89	176	(49.4)	674	1,028	(34.4)
Carson Power Plant	31	52	(40.4)	148	252	(41.3)
Procter & Gamble Power Plant	72	87	(17.2)	450	455	(1.1)
Campbell Power Plant	96	115	(16.5)	587	415	41.4
Cosumnes Power Plant	13	418	(96.9)	818	2,154	(62.0)
Other	84	77	9.1	444	439	1.1
Total net generation	385	925	(58.4)	3,121	4,743	(34.2)
Purchased Power less transmission	losses:					
CalEnergy	19	19	0.0	154	149	3.4
Calpine Sutter	154	164	(6.1)	1,106	749	47.7
Drew Solar	12	30	(60.0)	12	202	(94.1)
Feed in Tariff	23	24	(4.2)	162	159	1.9
Grady Wind	42	62	(32.3)	548	503	8.9
Rancho Seco PV II	22	38	(42.1)	169	247	(31.6)
WAPA	25	91	(72.5)	161	565	(71.5)
WSPP and other	682	49	*	3,282	1,395	135.3
Other long term power	56	67	(16.4)	399	464	(14.0)
Total net purchases	1,035	544	90.3	5,993	4,433	35.2
Total sources of energy	1,420	1,469	(3.3)	9,114	9,176	(0.7)
Uses of energy:						
SMUD electric sales and usage	1,141	1,088	4.9	7,095	6,822	4.0
Surplus power sales	239	368	(35.1)	1,757	1,995	(11.9)
System losses	40	13	207.7	262	359	(27.0)
Total uses of energy	1,420	1,469	(3.3) %	9,114	9,176	(0.7) %

^{*} Change equals 1000% or more.





Net generation is lower than planned for the eight-month period.

- Hydro generation is lower than planned (34.4 percent).
- JPA generation is lower than planned (38.9 percent).

Purchased power, less surplus power sales, is higher than plan (73.7 percent).

SACRAMENTO MUNICIPAL UTILITY DISTRICT STATEMENTS OF NET POSITION

August 31, 2022 and 2021 (thousands of dollars)

Ι	otal

					Intercompany		
	SMUD	Cosumnes	NCEA	NCGA #1	Eliminations	2022	2021
ELECTRIC UTILITY PLANT							
Plant in service, original cost	\$ 5,850,040	\$ 946,971	\$ -	\$ -	\$ - \$	6,797,011	\$ 6,474,499
Less accumulated depreciation	2,761,332	667,803	-	<u>-</u>	- '	3,429,135	3,254,963
Plant in service - net	3,088,708	279,168	-	-	-	3,367,876	3,219,536
Construction work in progress Investment in Joint Power Agencies	503,284 309,636	18,212	-	-	(282,677)	521,496 26,958	559,296 22,523
Total electric utility plant - net	3,901,628	297,380			(282,677)	3,916,330	3,801,355
RESTRICTED ASSETS	-,,	==:,===			(===,=::)	-,,	-,,
Revenue bond reserves	2.931	_	_	_	_	2.931	3.813
payment of debt service	10,470	-	-	-	-	10,470	10,470
Restricted der	.	10,241	8,448	4,645	-	23,334	14,851
Nuclear decommissioning trust fund	8,899	-	-	-	-	8,899	8,874
Rate stabilization fund pension asset	183,204 61.942	_	_		-	183,204 61,942	161,783
NeNet OPEB asset	34,223	_	_	_	-	34.223	770
	26,115	-	3,000	1	-	29,116	22,720
Other futors from unrestricted funds (decommissioning)	(6,684)	-	-	-	-	(6,684)	(6,684)
Due (to) from restricted funds (decommissioning)	6,684	(002)	(11 110)	(4.646)	-	6,684	6,684
<u>Duleess current portion</u> Total restricted assets	(18,463) 309,321	(902) 9,339	(11,448)	(4,040)		(35,459) 318,660	(45,201) 178,080
	303,321	9,009				310,000	170,000
CURRENT ASSETS							
Cash, cash e quivalents and investments Unrestricted	528.134	60.494	_	_	_	588.628	601.459
Restricted	18,463	902	11,448	4,646	-	35,459	45,201
Accounts receivable - net	352,498	27,931	6,185	2,396	(46,438)	342,573	308,147
Energy efficiency loans due within one year	201		-	-	-	201	2,691
Interest receivable	2,721	98	-	4	-	2,823	779
Re gulatory costs to be recovered within one year Berivative financial instruments maturing within in one year	19,633 132,538	104	-	105	-	19,842 132,538	38,229 46,616
Inventories	87,775	19,570	_	-	-	107,345	99.323
Prepaid gas to be delivered within one year	, -	· -	3,896	24,209	-	28,105	25,184
Prepayments and other	23,636	6,322	12	16		29,986	29,927
Total current assets	1,165,599	115,421	21,541	31,376	(46,438)	1,287,500	1,197,556
NONCURRENT ASSETS							
Re gulatory costs for future recovery	70 700					70 700	70.040
Decommissioning Pension	72,728 329.193	-	-	-	-	72,728 329,193	78,648 346,220
OPEB	272.494	-	-	-	-	272.494	285.268
Bond Issues	,	714	-	402	-	1,116	1,325
Derivative financial instruments	903	-	-	-	-	903	4,879
Derivative financial instruments	136,371	-	-	404.400	-	136,371 647.744	33,661
Prepaid gas Prepaid power and capacity	242		526,575	121,169	-	242	675,849 450
Energy efficiency loans - net	728	_	_	-	-	728	6,879
Othe -	69,619	4	-	60	-	69,683	53,301
l otal noncurrent assets	882,278	718	526,575	121,631	-	1,531,202	1,486,480
TOTAL ASSETS	\$ 6,258,826	\$ 422,858	\$ 548,116	\$ 153,007	\$ (329,115) \$	7,053,692	\$ 6,663,471
DEFENDED OUTELOWS OF DESCURATO							
DEFERRED OUTFLOWS OF RESOURCES	40.000					40.055	
Accumulated decrease in fair value of hedging derivatives	18,339	-	-	-	-	18,339	26,549
Deferred pension outflows	75,282	-	-	-	-	75,282	189,488
Deferred OPEB outflows	22,304		-	-	-	22,304	24,207
Deferred ARO outflows	-	1,479	-	-	-	1,479	1,502
Unamortized bond losses - other	7,836	1,286	-	-	-	9,122	13,319
TOTAL DEFERRED OUTFLOWS OF RESOURCES	123,761	2,765	-		-	126,526	255,065
TOTAL ASSETS AND DEFERRED OUTFLOWS OF RESOURCES	\$ 6,382,587	\$ 425,623	\$ 548.116	\$ 153,007	\$ (329,115) \$	7,180,218	\$ 6,918,536
10 TUT VOOF 10 WAN DELEVATED ON LEFONS OF KESONKOES	φ 0,302,307	ψ 420,023	ψ J+0,110	ψ 133,007	ψ (328,113) Φ	1,100,210	φ υ,910,030

SACRAMENTO MUNICIPAL UTILITY DISTRICT STATEMENTS OF NET POSITION August 31, 2022 and 2021 (thousands of dollars)

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	Intercompany SMUD Cosumnes NCEA NCGA #1 Eliminations 2022						2021
					Liiiiiiauoris		
LONG-TERM DEBT -NET	\$ 2,137,072	\$ 96,186 \$	548,521	\$ 120,070	\$ - \$	2,901,849	3,095,802
CURRENT LIABILITIES							
Commercial paper notes	50,000	-	_	-	-	50,000	_
Accounts payable	109,422	10,918	3,576	486	-	124,402	104,207
Purchased power payable	163,397	12,401	-	-	(46,438)	129,360	42,047
Credit su poort collateral obligation Credit su poort collateral obligation Long-term debt due within one year	13,059	-	-	1	-	13,060	3,885
Lon g-term debt due within one year	111,165	1,845	-	22,865	-	135,875	132,150
Accrued decommissioning	6,889				-	6,889	6,751
Interest payable	13,068	748	3,625	539	-	17,980	17,596
Accrued salaries and compensated absences	53,635	-	-	-	-	53,635	48,011
Derivative financial instruments maturing within one year	16,023	-	-	-	-	16,023	18,139
Customer deposits	1,658 47,368	-	-	-	-	1,658 47,368	1,956
Othe T			7.004		(40,400)		26,195
Total current liabilities	585,684	25,912	7,201	23,891	(46,438)	596,250	400,937
NONCURRENT LIABILITIES							
Accrued decommissioning - net	74,943	9,021	-	-	-	83,964	89,471
Derivative financial instruments	5,540	-	-	-	-	5,540	16,043
Net pension liability	-	-	-	-	-	-	393,557
Net OPEB liability		-		-	-		23,263
-Othe r	79,242	-	161		-	79,403	92,821
Total noncurrent liabilities	159,725	9,021	161	-	-	168,907	615,155
TOTAL LIABILITIES	2,882,481	131,119	555,883	143,961	(46,438)	3,667,006	4,111,894
DEFERRED INFLOWS OF RESOURCES							
Accumulated increase in fair value of hedging derivatives	249,531	_	_	_	_	249,531	78,990
Deferred pension inflows	191,077	-	-	-	-	191,077	4,737
Deferred OPEB inflows	73,792	-	_	_	_	73,792	46,373
Regulatory credits	555,571	_	_	_	_	555,571	513,710
Unamortized bond gains - other	8,207	_	_	_	_	8,207	9,734
Unearned revenue	3,324	20	_	_	_	3,344	3,473
TOTAL DEFERRED INFLOWS OF RESOURCES	1,081,502	20	-	-	-	1,081,522	657,017
NET POSITION	0.000.044	000 700	(0.505)	0.000	(000 500)	0.007.007	4.057.544
Balance at beginning of year	2,292,641	283,722	(6,565)	9,838	(282,539)	2,297,097	1,957,511
(decrease) for the year Member contributions (distributions) - net	125,963	10,762	(337)	(264) (528)	(1,531) 1.393	134,593	192,114
Net increase NET DOCITION	0.440.004			(/	,		0.440.005
TOTAL NET POSITION	2,418,604	294,484	(7,767)	9,046	(282,677)	2,431,690	2,149,625
TOTAL LIABILITIES, DEFERRED INFLOWS OF RESOURCES							
AND NET POSITION	\$ 6,382,587	\$ 425,623 \$	548,116	\$ 153,007	\$ (329.115) \$	7,180,218	\$ 6,918,536

SACRAMENTO MUNICIPAL UTILITY DISTRICT STATEMENTS OF CASH FLOWS For the Period Ended August 31, 2022 (thousands of dollars)

		Month		Year to Date	
CASH FLOWS FROM OPERATING ACTIVITIES					
Receipts from customers	\$	190,956	\$	1,044,024	
Receipts from surplus power and gas sales		36,594		226,489	
Other receipts		33,485		130,405	
Payments to employees - payroll and other		(25,492)		(264,590)	
Payments for wholesale power and gas purchases		(120,874)		(559,228)	
Payments to vendors/others		(43,832)		(295,529)	
Net cash provided by operating activities		70,837		281,571	
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES					
Repayment of debt		-		(20,550)	
Interest on debt		-		(27,031)	
Net cash used in noncapital financing activities		-		(47,581)	
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIV	/ITIE	S			
Construction expenditures		(28,176)		(228, 263)	
Contributions in aid of construction		1,417		17,039	
Net proceeds from bond issues		-		150,711	
Repayments and refundings of debt		(82,480)		(263,123)	
Issuance of commercial paper		50,000		50,000	
Other receipts		-		2,540	
Interest on debt		(44,029)		(107,101)	
Net cash used in capital and related financing activities		(103,268)		(378,197)	
CASH FLOWS FROM INVESTING ACTIVITIES					
Sales and maturities of securities		69,677		289,245	
Purchases of securities		(122,040)		(694,287)	
Interest and dividends received		202		3,592	
Investment revenue/expenses - net		9,007		19,511	
Net cash used in investing activities		(43,154)		(381,939)	
Net decrease in cash and cash equivalents		,		<u> </u>	
·		(75,585)		(526,146)	
Cash and cash equivalents at the beginning of the month and year		338,087		788,648	
Cash and cash equivalents at August 31, 2022	\$	262,502	\$	262,502	
Cash and cash equivalents included in:					
Unrestricted cash and cash equivalents	\$	189,802	\$	189,802	
Restricted and designated cash and cash equivalents	*	12,887	•	12,887	
Restricted and designated assets (a component of the total of		,00.		- =,007	
\$318,660 at August 31, 2022)		59,813		59,813	
Cash and cash equivalents at August 31, 2022	\$	262,502	\$	262,502	
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